

PART I

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

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PART I

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 - SERVICE BEING ACQUIRED

The Contractor shall provide the personnel, facilities, equipment, materials, supplies, and services, (except such facilities, equipment, materials, supplies and services as are furnished by the Government), and shall perform in a quality, timely, and cost-effective manner the requirements and work set forth in this contract.

B.2 - OBLIGATION OF FUNDS AND FINANCIAL LIMITATIONS

The amount presently obligated by the Government with respect to this contract is specified in Clause I.150 - DEAR 970.5232-4, OBLIGATION OF FUNDS (PREV. I.104). Other financial limitations are also specified in Clause I.150 - DEAR 970.5232-4, OBLIGATION OF FUNDS (PREV. I.104).

B.3 - PERFORMANCE AND OTHER INCENTIVE FEES

- (a) The transition activities shall be performed on a cost-reimbursement basis up to \$237,094.00, and no fee shall be paid for these activities.
- (b) In implementation of Clause I.126 - DEAR 970.5215-1, TOTAL AVAILABLE FEE: BASE FEE AMOUNT AND PERFORMANCE FEE AMOUNT (PREV. I.82), the Parties have agreed that the maximum available performance fees that may be earned by the Contractor in accordance with the provisions of Appendix B, Performance Evaluation and Measurement Plan, for the performance of the work under this contract.

Commencing June 1, 2005 are as follows:

June 1, 2005 through September 30, 2005	\$1,498,500
October 1, 2005 through September 30, 2006	\$4,500,000
October 1, 2006 through September 30, 2007	\$4,500,000
October 1, 2007 through September 30, 2008	\$4,500,000
October 1, 2008 through September 30, 2009	\$4,500,000
October 1, 2009 through May 31, 2010	\$3,001,500

Commencing June 1, 2010 are as follows:

June 1, 2010 through September 30, 2010	\$1,498,500
October 1, 2010 through September 30, 2011	\$4,500,000
October 1, 2011 through September 30, 2012	\$4,500,000
October 1, 2012 through September 30, 2013	\$4,500,000
October 1, 2013 through September 30, 2014	\$4,500,000
October 1, 2014 through May 31, 2015	\$3,001,500

Commencing June 1, 2015 are as follows:

June 1, 2015 through September 30, 2015	\$1,500,000
October 1, 2015 through September 30, 2016	\$6,200,000
October 1, 2016 through September 30, 2017	\$6,400,000
October 1, 2017 through September 30, 2018	\$6,600,000
October 1, 2018 through September 30, 2019	\$6,700,000
October 1, 2019 through May 31, 2020	\$4,600,000

Commencing June 1, 2020 are as follows:

June 1, 2020 through September 30, 2020	\$ 2,694,575
October 1, 2020 through September 30, 2021	\$ 7,294,575
October 1, 2021 through September 30, 2022	\$ 7,294,575
October 1, 2022 through September 30, 2023	\$ 7,294,575
October 1, 2023 through September 30, 2024	\$ 7,294,575
October 1, 2024 through May 31, 2025	\$ 4,863,050

- (c) If DOE determines that the Contractor has earned any Award Term after May 31, 2019, in accordance with the provisions of Clause F.2 - AWARD TERM INCENTIVE (SPECIAL), the Parties have agreed that the maximum available annual performance fee shall be as specified above.
- (d) The maximum available annual performance fee that may be earned by the Contractor for any additional extensions of the period of performance beyond said five years shall be subject to negotiation between the Parties consistent with the Department of Energy Acquisition Regulation (DEAR) in effect at the time the fee is negotiated.
- (e) At the end of each fiscal year, there shall be no adjustment in the amount of the maximum available performance fee based on differences between any estimate of cost for performance of the work and the actual cost for performance of the work. Fee is subject to adjustment only –
 - (1) under the provisions of Clause I.158 - DEAR 970.5243-1, CHANGES (PREV. I.113); or
 - (2) for a +/- 10 percent change in the estimated fee base.

- (f) Any adjustment in the amount of the fee under the provisions of paragraph (e) for the fees specified in paragraphs (b) and (c) above, or negotiation of fee under paragraph (d) above, shall take into consideration the ratio between the Contractor's fee specified in paragraphs (b) and (c) above of the original contract and the maximum fees specified in Section L.9(b) of the Request for Proposal No. DE-RP02-05CH11231, dated December 15, 2004.

B.4 - ALLOWABILITY OF SUBCONTRACTOR FEE

If the Contractor is part of a consortium, joint venture, and/or other teaming arrangement, the team shall share in this Contract fee structure and separate additional subcontractor fee for teaming partners shall not be considered an allowable cost under the contract. If a subcontractor, supplier, or lower-tier subcontractor is a wholly owned, majority owned, or affiliate of any team member, any fee or profit earned by such entity shall not be considered an allowable cost under this contract unless otherwise approved by the Contracting Officer.

B.5 - PROVISIONAL PAYMENT OF PERFORMANCE FEE

The Contractor may, subject to the approval of the Contracting Officer, be paid provisional performance fee payments consistent with the provisions of clause I.148 - DEAR 970.5232-2, PAYMENTS AND ADVANCES (PREV. I.102). The Contractor shall promptly refund to the Government any amount of provisional performance fee paid that exceeds the amount of performance fee earned.

PART I

SECTION C

DESCRIPTION/SPECS./WORK STATEMENT

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PART I

SECTION C - DESCRIPTION/SPECS./WORK STATEMENT

C.1 - INTRODUCTION

This Performance-Based Management Contract (PBMC) is for the management and operation of the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) (the Laboratory). The Contractor shall, in accordance with the provisions of this contract, accomplish the missions and programs assigned by the U.S. Department of Energy (DOE) and manage and operate the Laboratory. The Laboratory is one of the DOE's Office of Science (SC) multi-program laboratories. The Laboratory is a Federally Funded Research and Development Center (FFRDC) established in accordance with the Federal Acquisition Regulation (FAR) Part 35 and operated under this management and operating (M&O) contract, as defined in FAR 17.6 and DEAR 917.6.

This contract reflects the Department's effort to enable the Contractor to achieve more highly effective and efficient management of the Laboratory, outstanding science and technology results in a safe and secure environment, more cost effective operations, and enhanced Contractor accountability. Toward this end, this contract establishes a process for minimizing the use of unnecessary DOE orders by tailoring existing and new orders that will enable the Contractor to propose alternate standards, which rely primarily on state and federal laws and regulations, and management processes based on national standards, certified systems and best business practices. Contractor managers shall be held more accountable for maintaining risk mitigation as Laboratory processes and assurance models change.

This contract reflects the application of performance-based contracting approaches and techniques which emphasize results/outcomes and minimize "how to" performance descriptions. The Contractor has the responsibility for total performance under the contract, including determining the specific methods for accomplishing the work effort, performing quality control, and assuming accountability for accomplishing the work under the contract. Accordingly, this PBMC provides flexibility, within the terms and conditions of the contract, to the Contractor in managing and operating the Laboratory.

Desired results of this contract include improved Contractor operational efficiencies, allocations of Contractor oversight resources to direct mission work, and streamlined and more effective federal line management focused on a system-based approach to federal oversight with increased reliance on the results obtained from certified, nationally recognized experts and other independent reviewers.

Moreover, science and technology have improved peer review metrics, stretch goals, and incentives to achieve extraordinary results.

Under this PBMC, it is the Contractor's responsibility to develop and implement innovative approaches and adopt practices that foster continuous improvement in accomplishing the mission of the Laboratory. DOE expects the Contractor to produce effective and efficient management structures, systems, and operations that maintain high levels of quality and safety in accomplishing the work required under this contract, and that to the extent practicable and appropriate, rely on national, commercial, and industrial standards that can be verified and certified by independent, nationally recognized experts and other independent reviewers. The Contractor shall conduct all work in a manner that optimizes productivity, minimizes waste, and fully complies with all applicable laws, regulations, and terms and conditions of the contract.

To the maximum extent practical, this PBMC shall:

- (a) Describe the requirements in terms of outcome or results required rather than the methods of performance of the work;
- (b) Use a limited number of systems-based measurable performance standards (i.e., terms of quality, timeliness, quantity, etc.) to drive improved performance and increased effective and efficient management of the Laboratory;
- (c) Provide for appropriate financial incentives (e.g., fee) when performance standards and contract requirements are achieved;
- (d) Specify procedures for reduction of fee when services are not performed or do not meet contract requirements; and
- (e) Include non-financial performance incentives where appropriate.

C.2 - IMPLEMENTATION OF DOE'S MISSION FOR LBNL (2008)

The Contractor shall develop a compelling plan to implement the DOE's SC strategic mission for the Laboratory, as defined below in C.4(b)(1) "Laboratory Mission." Within this Plan, the Contractor will map the Laboratory's core competencies to this Laboratory mission. The Contractor will highlight the unique roles the Laboratory fills in SC's capability to accomplish its missions and, more broadly, that of the Department. Upon approval by the Department, the Plan shall be captured within the Annual Laboratory Plan (ALP), which shall be updated annually in accordance with instructions to be issued by the Office of Science.

The Performance Evaluation and Measurement Plan, as called for within the clause entitled, "Standards of Contractor Performance Evaluation", identifies performance outcomes and indicators, which are updated and agreed upon by the Parties annually, as standards against which the Contractor's overall performance of scientific, technical, operational, and/or managerial obligations under this contract shall be assessed.

C.3 - PERFORMANCE EXPECTATIONS, OBJECTIVES, AND MEASURES

C.3.1 - Core Expectations

C.3.1.1 - General

The relationship between DOE and its national laboratory management and operating contractors is designed to bring best practices for research and development to bear on the Department's missions. Through application of these best practices, the Department seeks to assure both outstanding programmatic and operational performance of today's research programs and leadership to assure the relevance to DOE's mission needs, the productivity and quality of its programs to lead the world in meeting tomorrow's needs. Accordingly, DOE has substantial expectations of the Contractor in the areas of: program delivery and mission accomplishment; laboratory stewardship; and excellence in laboratory operations and financial management.

C.3.1.2 - Program Development and Mission Accomplishment

The Contractor is expected to provide the highest quality of planning, management, and execution of assigned research and development programs. The Contractor is expected to execute assigned programs so as to achieve the greatest possible impact on DOE's mission objectives, to aggressively manage the Laboratory's science and technology capabilities and intellectual property to meet these objectives, and to initiate innovative concepts and research proposals that are in concert with DOE missions. The Contractor shall propose work that will advance DOE's mission objectives and that is aligned to Laboratory capabilities. The Contractor shall strive to meet the highest standards of scientific quality and productivity, "on-time, on budget, as-promised" delivery of program deliverables, and first-rate service to the research community through user facility operation.

The Contractor is expected to demonstrate benefit to the nation from R&D investments by transferring technology to the private sector and supporting excellence in science and mathematics education consistent with achieving continuous progress towards DOE's core missions.

C.3.1.3 - Laboratory Stewardship

The Contractor is expected to be an active partner with DOE in assuring that the Laboratory is renewed and enhanced to meet future mission needs. Within the constraints of available resources and other Contract requirements, the Contractor, in partnership with DOE, shall:

- (a) Maintain an understanding of DOE's evolving Laboratory vision and long-term strategic plan. Address the co-evolution of Laboratory capabilities to meet anticipated DOE and national needs.
- (b) Attract, develop, and retain an outstanding work force, with the skills and capabilities to meet DOE's evolving mission needs.
- (c) Renew and enhance research facilities and equipment so that the Laboratory remains at the state-of-the-art over time and is well-positioned to meet future DOE needs.
- (d) Build and maintain a financially viable portfolio of research programs that generates the resources required to renew and enhance Laboratory research capabilities over time.
- (e) Maintain a vibrant relationship with the broader research community, to enhance the intellectual vitality and research relevance of the Laboratory, and to bring the best possible capabilities to bear on DOE mission needs through partnerships.
- (f) Build a positive, supportive relationship founded on openness and trust with the community and region in which the Laboratory is located.

C.3.1.4 - Operational and Financial Management Excellence

The Contractor is expected to effectively and efficiently manage and operate the Laboratory through best-in-class management practices designed to foster world-class research while assuring the protection and proper maintenance of DOE research and information assets, the health and safety of Laboratory staff and the public, and the environment. The Contractor is expected to operate the Laboratory so as to meet all applicable laws, regulations, and requirements. The Contractor is expected to

manage the Laboratory cost-effectively, while providing the greatest possible research output per dollar of research investment, and, accordingly, to develop and deploy management systems and practices that are designed to enhance research quality, productivity, and mission accomplishment consistent with meeting operational requirements.

C.3.2 - Performance Evaluation Expectations

The performance expectations of this contract are broadly set forth in this Section and reflect the DOE's minimum needs and expectations for Contractor performance. Specific performance work statements, performance standards (measures applied to results/outputs), acceptable performance levels (performance expectations), acceptable quality levels (permissible deviations from performance expectations), and related incentives shall be established annually, or at other such intervals determined by the DOE to be appropriate. The related incentives may be monetary, or where monetary incentives are not desirable or considered effective, the Contractor's performance may be used as a factor which directly affects the past performance report card, or a factor in a decision to reduce or increase DOE oversight or Contractor reporting, as appropriate.

In performance under this contract, the Contractor shall be evaluated within the following general performance goals and expectations:

- (a) Science and Technology (S&T) - The Contractor will deliver innovative, forefront science and technology aligned with DOE strategic goals in a safe, environmentally sound, and efficient manner, and will conceive, design, construct, and operate world-class user facilities.
 - (1) Quality of S&T: Produce original, creative scientific output that advances science and technology while achieving sustained scientific progress and impact that is clearly recognized by the technical community.
 - (2) Relevance to DOE Missions and National Needs: Conduct the highest quality scientific research to advance the missions of DOE and other national

programs and contributes to U.S. leadership in international scientific and technical communities.

- (3) Success in Constructing and Operating Research Facilities & Equipment: Provide quality strategic planning for facilities/equipment needed to insure the Laboratory can meet its S&T missions today and in the future, while effectively and efficiently maintaining current S&T facilities and equipment and providing effective, efficient operation of user facilities.
 - (4) Effectiveness and Efficiency of Research Program Management: Provide for effective stewardship of capabilities, expert delivery, and success in relationship and risk management.
- (b) Laboratory Leadership, Management and Operations - The Contractor will provide leadership to assure mission accomplishment and will manage and enhance operations and management processes to provide an effective and efficient work environment that enables the execution of the LBNL mission in a manner responsive to customer and stakeholder expectations.

C.3.3 - Performance Objectives and Measures

The results-oriented performance objectives of this contract are stated in the Performance Evaluation and Measurement Plan (Appendix B), and/or in the Work Authorization Directives issued annually in accordance with the special clause entitled, "Long-Range Planning, Program Development and Budgetary Administration". The Contractor shall develop a five-year Institutional Plan for the overall direction of the Laboratory and for the accomplishment of these objectives. The Plan shall be actively maintained and annually updated in accordance with Institutional Planning instructions issued by the DOE Site Manager. The objectives shall be accomplished within an overall framework of management and operational performance requirements and standards contained elsewhere in this contract. To the maximum extent practicable, these requirements and standards have also been structured to reflect performance-based contracting concepts, including the clause entitled, "Application of DOE Contractor Requirement Documents", which permits the Contractor to propose to the Contracting Officer alternative and/or

tailored approaches based on national, commercial or industrial standards and best business practices to meet the outcomes desired by the Government.

DOE's Quality Assurance/Surveillance Plan (QASP) for evaluating the Contractor's performance under the contract shall consist primarily of the Performance Evaluation and Measurement Plan (PEMP) as called for within the Part II, Section I contract clause entitled, "Total Available Fee: Base Fee Amount and Performance Fee Amount". The QASP establishes the process DOE shall use to ensure that the Contractor has performed in accordance with the performance standards and expectations. The QASP shall summarize the performance standards, expectations and acceptable quality levels for each task; describe how performance will be monitored and measured; describe how the results will be evaluated; and state how the results will affect contract payment.

The Contractor shall develop and implement a Laboratory assurance process, acceptable to the Contracting Officer, which provides reasonable assurance that the objectives of the Contractor's management systems are being accomplished and that the systems and controls will be effective and efficient. The Contractor's assurance process shall reflect an understanding of the risks, maintain mechanisms for eliminating or mitigating the risks, and maintain a process to ensure that the management systems and their attendant assurance process(es) meet contract requirements.

C.4 - STATEMENT OF WORK

(a) General.

The Contractor shall, in accordance with the provisions of this contract, provide the intellectual leadership and management expertise necessary and appropriate to manage, operate, and staff the Lawrence Berkeley National Laboratory (the Laboratory); to accomplish the research mission and roles assigned by the Department of Energy (DOE) to the Laboratory; and to perform the work described in this Statement of Work (SOW). The DOE research activities are assigned through strategic planning, program coordination, and cooperation between the Laboratory and DOE.

Because the research activities of the Laboratory are dynamic, this SOW is not intended to be all inclusive or restrictive, but is intended to provide a broad

framework and general scope of the work to be performed at the Laboratory during the term of the contract. This SOW does not represent a commitment to, or imply funding for, specific projects or programs. All projects and programs will be authorized individually by DOE and/or other work sponsors in accordance with the provisions of this contract.

All work under this contract shall be conducted in a manner that will protect the environment and assure the safety and health of employees and the public. This objective is to be accomplished by the Laboratory implementing an Integrated Safety Management System that includes an Environmental Management System. In performing the contract work, the Laboratory shall implement appropriate program and project management systems to track progress and pursue cost effectiveness in work activities; develop integrated plans and schedules to achieve program objectives, incorporating input from DOE and stakeholders; maintain sufficient technical expertise to manage activities and projects throughout the life of a program; maintain Laboratory facilities and infrastructure as necessary to accomplish assigned missions; and utilize appropriate technologies and management systems to improve cost efficiency and performance.

(b) Mission and Major Programs

(1) Laboratory Mission. In support of major DOE sponsor organizations (see C.4(b)(2)) that evaluate the Laboratory's program performance, the central mission of the Laboratory is to provide scientific leadership needed to carry out the world class science and technological innovation to support the programs and missions of SC and DOE. The Laboratory's mission addresses four distinct goals:

- To perform the highest quality multi-disciplinary research in the energy sciences, general sciences, physical sciences, biosciences and computational sciences in a manner that ensures employee and public safety and protection of the environment;
- To develop, maintain, and operate unique national experimental facilities that are available to qualified investigators;
- To educate and train future generations of scientists and engineers to promote the Department's national science and education goals; and
- To transfer knowledge and technological innovations and foster productive relationships among Laboratory research programs,

universities, and industry in order to promote national economic competitiveness.

- (2) Primary Program Sponsors. Work under this contract includes scientific and technical programs sponsored by major DOE organizations. Primary DOE sponsors include:

- Office of Science,
- Energy Efficiency and Renewable Energy,
- Civilian Radioactive Waste Management,
- Fossil Energy, and
- Environmental Management.

Additionally, with prior permission of the Department, the Laboratory will perform other DOE, non-DOE federal government, and other sponsored research that supports the Laboratory's missions (notably those of the National Institutes of Health, the National Aeronautics and Space Administration, the Environmental Protection Agency, and Department of Defense, state government and industry). The DOE derives the benefits from the Laboratory's mission accomplishments and the development and utilization of the Laboratory's core competencies which are supported by this work.

A summary of current Laboratory programs follows. Descriptions of major programs are updated annually in the Institutional Plan.

(c) Science Programs.

- (1) Basic Energy Sciences. The Laboratory shall conduct research in materials sciences and the chemistry and physics of materials, in geosciences, in biological energy research, in applied mathematics and in other areas of chemical sciences. Programs in materials sciences emphasize new and forefront research projects for the synthesis, processing, and characterization of nanomaterials and other advanced materials. Programs in chemical sciences emphasize chemical physics, dynamics and mechanisms of chemical reactions, catalysis, electron spectroscopy, atomic physics, photochemistry, theoretical chemistry, chemistry of the actinide elements, and combustion modeling mechanisms and processes. In geosciences, a multi-disciplinary program supports the scientific basis for development of hydrocarbon and strategic-mineral resources, remediation of toxic waste sites, safe

disposal of radioactive and toxic chemical wastes, and exploitation of geothermal energy. A program in energy biosciences studies the unique features of photosynthetic organisms for collecting light energy and storing it as chemical energy. The Laboratory shall conduct research and development on advanced instrumentation and scientific user facilities improvements, such as those for synchrotron radiation studies, nuclear magnetic resonance, ultra-fast science, electron beam micro-characterization, neutron science and other scientific tools.

- (2) **Scientific Computing Research.** The Laboratory shall conduct computational research including the management and operation of the National Energy Research Scientific Computing (NERSC) Center; the Energy Sciences Network (ESnet); and other computational science and mathematics research units. The NERSC Center provides high-performance computing, information, and communications services for researchers. ESnet supports national and international access to the NERSC Center and, more generally, the needs of DOE scientists and collaborators for access to other DOE scientific facilities, information dissemination among scientific collaborators and widespread access to existing supercomputer facilities. Computational research at the Laboratory advances DOE's programs for Scientific Discovery Through Advanced Computing, architectures for scientific computing, and includes studies into new techniques and adaptive numerical methods and many other approaches. Other programs include the development of advanced numerical and analytical methods and their application to the most challenging problems in physics and engineering, high-speed networks and grids and related collaborative efforts to monitor complex experimental devices by electronic means, and an effort to combine state-of-the art computer equipment and scientific visualization software to provide research scientists with tools for exploring their data in new and innovative ways. In technology research, the Laboratory supports focused research projects between industry and the national laboratories.
- (3) **Nuclear Physics.** The Laboratory shall conduct experimental and theoretical investigations of the structure and properties of nuclei, emphasizing studies of nuclei under extreme conditions (temperature, isospin, angular momentum, and energy density) as well as studies of neutrinos and double beta decay. Research collaborations involve studies of the quark-gluon plasma at the Relativistic Heavy Ion Collider. The Laboratory shall conduct programs to educate and train young scientists, to develop technology in advanced nuclear instrumentation and to define the challenges of relativistic heavy-ion physics. The research includes the development of advanced detectors and systems to deliver high intensity beams for nuclear physics.

- (4) **High-Energy Physics.** The Laboratory shall conduct a program of experimental and theoretical research, including the development and operation of innovative detectors and research on advanced accelerator components and concepts. Experimental programs in high-energy physics focus on the discovery of the Higgs particle, and the properties of quarks and leptons and their interactions. The astrophysics effort at the Laboratory includes several components: understanding the dark energy in the universe through the study of distant supernovas, the study of cosmic microwave background measurements to examine the properties of the universe, studies of neutrinos and investigations, including the search for dark matter. The Laboratory shall also conduct studies on highly theoretical topics of interest; data compilation of high-energy physics particle properties; advanced detector development for use in proposed hadron colliders; and accelerator physics and engineering for the application of particle beams for high-energy physics facilities.
- (5) **Biological and Environmental Research.** The Laboratory shall conduct life sciences research in three program areas life sciences, medical sciences and environmental sciences. In the life sciences, this research includes genome sequencing and gene expression research, microbial genomics and Genomes to Life research, low dose radiation studies, DNA repair, and other biological studies. In the medical sciences, the research includes, nuclear medicine, functional imaging, radiopharmaceutical development and measurement technology. In environmental research studies include global change research, ocean, terrestrial and geological sequestration studies, and natural and accelerated bioremediation studies. Studies on genome structure include comparative sequencing to understand the human genome gene regulatory networks and development of instrumentation and bioinformatic tools for and comprehensive understanding of comparative genomics.
- (6) **Fusion Energy.** The Laboratory shall conduct research on accelerator systems and experimental components supporting the nation's inertial-confinement fusion energy programs. Heavy-ion fusion accelerator research focuses on the physics and technology of induction acceleration as the means for producing high-current, heavy-ion beams as drivers for inertial-confinement systems. The laboratory also has important capabilities in ion beam systems that have been applied to magnetic fusion research.
- (7) **Spallation Neutron Source (SNS) project.** The Laboratory shall be accountable for assigned project deliverables, as derived from the project technical, cost, and schedule baseline documents, and shall make

available the resources necessary to execute the approved work plans for the SNS. The Laboratory shall perform the tasks agreed to in a safe, environmentally benign, high-quality, timely, responsible, and cost-effective manner. The SNS Project Office will provide overall coordination and direction to the partner Laboratories, as described in the "Memorandum of Agreement (MOA) revision 3, dated October 5, 1999, between the SNS Project and Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, and Oak Ridge National Laboratory."

- (8) **Energy Efficiency and Renewable Energy Programs.** The Laboratory shall conduct research and technology development in the furtherance of national goals to reduce energy demand and cost to consumers, balance environmental concerns with economic development, and enhance energy security. The Laboratory's programs are principally in advanced buildings technology, industry energy efficiency, electrical-energy storage and distribution, transportation, utility systems and electricity systems reliability, and geothermal systems.
- (9) **Civilian Radioactive Waste Management Programs.** The Laboratory shall conduct a program of interrelated geoscience and geological engineering research supporting the underground storage of high-level nuclear wastes; including characterization of deep geologic formations, determination of the physical and chemical processes occurring in the repository rocks, analysis of hydrologic and chemical transport mechanisms, development of predictive techniques for repository performance, and technical support for a DOE licensing application to the Nuclear Regulatory Commission.
- (10) **Fossil Energy Programs.** The Laboratory shall conduct research directed toward making coal more usable, including studies on conversion to gaseous and liquid fuels and reduction of emissions and carbon sequestration. The Laboratory shall also develop advanced characterization methods for oil and gas reservoirs and for improving oil discovery and recovery. The contractor shall also conduct research on refinery activities related to efficiency and the environment. The Laboratory's research capabilities are available to the Department for research germane to a hydrogen economy.
- (11) **Environmental Management Programs.** The Laboratory shall be responsible for investigations, monitoring, clean-up, containment, restoration, removal, decommissioning and other remedial activity (including any costs for defense of litigation related thereto), for the management and/or clean-up of oil spills, contamination or releases of

any solid wastes, hazardous wastes and constituents, hazardous or radioactive substances, wastes or materials present in soil, groundwater, air, surface water, facilities and structures (whether subsurface or above ground), as a result of research or other work conducted by the laboratory during the term of the contract.

The Laboratory shall execute pollution prevention efforts to advance cost-effective waste reduction, environmental release reduction, environmentally preferable purchasing, and environmental sustainability in facility construction and operation, in all site operations and facilities covered by this contract.

- (12) Policy, Planning, and Analysis Support. The Laboratory shall conduct analysis activities in support of energy policy issues of concern to DOE, data and model development for projecting energy demand and evaluation of policy impacts as input to DOE's assessment of United States energy strategies.
- (13) Laboratory-Directed Research and Development (LDRD). The Laboratory shall conduct a LDRD program that leverages the Laboratory's scientific expertise and key technologies toward innovations that are applicable to DOE's, and other sponsor's missions. LDRD contributes to the development of scientific staff capability and vitality through the support of new research programs of great merit and potential, bringing important capabilities to serve DOE and other related national needs.
- (14) University and Science Education Programs. The Contractor shall develop and implement programs that utilize Laboratory resources, staff, technological expertise, collaborative and cooperative relationships with other academic and research institutions in order to advance science education opportunities and to improve the quality of science, mathematics, computing, and technology education in the United States.
- (15) User Facilities Operations. The Laboratory shall manage and operate major DOE user facilities: Advanced Light Source, Biomedical Isotope Facility, National Energy Research Scientific Computing Center and Energy Sciences Network, and National Center for Electron Microscopy and develop other user facilities important to DOE missions.
- (16) Engineering. The Laboratory shall maintain an engineering and machine shop fabrication capability that supports the focus on state-of-the-art research and development to enhance Laboratory technical strengths and to meet the needs of current and future Laboratory programs.

(d) Administration and Operation of the Laboratory.

The Contractor shall manage, operate, protect, maintain and enhance the Laboratory's ability to function as a DOE multi-program laboratory, provide the infrastructure and support activities, support the accomplishment of the Laboratory's missions, and assure the accountability to the DOE under the results-oriented, performance-based provisions of this contract. The Contractor shall implement a broad scope continual self-assessment process to assess the overall performance in, and drive continuous improvement of, Laboratory operations and administration.

- (1) Strategic and Institutional Planning. The Contractor shall conduct a strategic planning process and develop Institutional Plans and Strategic Facility Plans in consideration of DOE provided planning guidance and strategic planning material to assure consistency with DOE missions and goals and with due regard for Environment, Safety, and Health (ES&H) issues.
- (2) Protection of Workers, the Public and the Environment. The safety and health of workers and the public and the protection and restoration of the environment are fundamental responsibilities of the Contractor. Accordingly, the Contractor shall implement a Laboratory Integrated Safety Management (ISM) system which establishes the environmental, safety, and health processes that support the safe performance of all Laboratory work. The ISM system shall incorporate Environmental Management Systems, in cooperation with regulatory agencies. The ISM system shall be applied to all Contractor activities conducted by or for the Laboratory, through subcontractors or other entities, and shall provide for ES&H oversight of Laboratory and subcontractor operations. The work shall include environmental and cultural resource protection, pollution prevention, the safety management system, risk based worker health program, environmental restoration and waste management, environmental management system, and emergency management programs.
- (3) Integrated Safeguards and Security (ISSM). The Contractor shall protect Laboratory assets, personnel, property, and information, to sustain the science mission in a manner commensurate with risks. The Contractor shall conduct a Laboratory Integrated Safeguards and Security Management program to include physical site security, protection of Government property, cyber security protections, protection of information, personnel security, and access control for Laboratory staff and visitors, export controls, and a counterintelligence program.
- (4) Laboratory Facility Operations and Infrastructure.

- a. The Contractor shall manage and maintain Government-owned facilities, both provided and acquired, to further national interests and to perform DOE statutory missions. Recognizing that these facilities are a national resource, these facilities may also be made available, with appropriate agreements, to private and public sector entities including universities, industry, and local, state, and other government agencies. The Contractor shall perform overall integrated planning, acquisition, upgrades, and management of Government-owned, leased or controlled facilities and real property accountable to the Laboratory. The Contractor shall employ facilities management practices that are best-in-class and integrated with mission assignments and business operations. The maintenance management program shall maintain Government property in a manner that (1) promotes and continuously improves operational safety, environmental protection and compliance, property preservation and cost effectiveness, (2) ensures continuity and reliability of operations, fulfillment of program requirements and protection of life and property from potential hazards, and (3) ensures the condition of the assets will be maintained or improved.
 - b. Commencing February 15, 2008, the Contractor shall assist DOE through direct participation and other support in achieving DOE's energy efficiency goals and objectives in electricity, water, and thermal consumption, conservation, and savings, including goals and objectives contained in Executive Order 13423, "Strengthening Federal Environmental, Energy, and Transportation Management." The Contractor shall maintain and update, as appropriate, its Site Plan (as required elsewhere in the contract) to include detailed plans and milestones for achieving site-specific energy efficiency goals and objectives. With respect to this paragraph, the Plan shall consider all potential sources of funds, in the following order: 1) the maximum use of private sector, third-party financing applied on a life-cycle cost effective basis, particularly from Energy Savings Performance Contracts and Utility Energy Services Contracts awarded by DOE; and 2) only after third-party financing options are evaluated, in the event that energy efficiency and water conservation improvements cannot be effectively incorporated into a private sector financing arrangement that is in the best interests of the Government, then DOE funding and funding from overhead accounts can be utilized.
- (5) Business Management. The Contractor shall manage an effective integrated system of internal controls for all business and administrative operations of the Laboratory.

- (i) Human Resources Management. The Contractor shall establish and maintain human resource systems which attract and retain outstanding employees, and continually motivate them to achieve high productivity in scientific research and Laboratory operations.

The Contractor also shall create and maintain at the Laboratory an environment that promotes diversity and fully utilizes the talents and capabilities of a diverse workforce. The Contractor shall seek to recruit a diverse workforce by promoting and implementing DOE and Laboratory goals. Special consideration will be given to Historically Black Colleges and Universities/Minority Institutions as potential resource pools. The Contractor shall also strive to promote diversity in all of the Laboratory's subcontracting efforts with emphasis on the use of the types of businesses identified in the Small Business Subcontracting Plan clause of this contract.

- (ii) Financial Management. The Contractor shall maintain a financial management system responsive to the obligations of sound financial stewardship and public accountability. The overall system shall include an integrated accounting system suitable to collect, record, and report all financial activities; a budgeting system which includes the formulation and executions of all resource requirements needed to accomplish projected missions and formulate short- and long-range budgets; an internal control system for all financial and other business management processes; and a disbursements system for both employee payroll and supplier payments.
- (iii) Purchasing Management. The Contractor shall have a DOE-approved purchasing system to provide purchasing support and subcontract administration. The Contractor shall, when directed by DOE and may, but only when authorized by DOE, enter into subcontracts for the performance of any part of the research work under this contract.
- (iv) Property Management. The Contractor shall have a DOE approved property management system that provides assurance that the Government owned, contractor held property is accounted for, safeguarded and disposed of in accordance with DOE's expectations and policies. The Contractor shall perform overall integrated planning, acquisition, maintenance, operation, management and disposition of Government-owned personal and real property, and Contractor-leased facilities and infrastructure used by the Laboratory. Real property management shall include

providing office space for the DOE Bay Area Site Office as directed by the DOE Bay Area Site Office Manager.

- (6) Legal Services. The Contractor shall maintain legal support for all contract activities including, but not limited to, those related to patents, licenses, and other intellectual property rights; subcontracts; technology transfer; environmental compliance and protection; labor relations; and litigation and claims.
- (7) Information Resources Management. The Contractor shall maintain information systems for organizational operations and for activities involving general purpose programming, data collection, data processing, report generation, software, electronic and telephone communications, and computer security. Contractor shall provide computer resource capacity and capability sufficient to support Laboratory-wide information management requirements. The Contractor also shall conduct a records management program.
- (8) Other Support. The Contractor shall provide other administrative services necessary for Laboratory operations and logistics support to the DOE Bay Area Site Office as requested by the Contracting Officer.

C.5 - PLANS AND REPORTS

The Contractor shall submit periodic plans and reports, in such form and substance as required by the Contracting Officer. These periodic plans and reports shall be submitted at the intervals, and to the addresses and in the quantities as specified by the Contracting Officer. Where specific forms are required for individual plans and reports, the Contracting Officer shall provide such forms to the Contractor. The Contractor shall require subcontractors to provide reports that correspond to data requirements the Contractor is responsible for submitting to DOE. Plans and reports which may be submitted in compliance with this provision are in addition to any other reporting requirements found elsewhere in other clauses of this contract. It is the intention of DOE to consult with the Contractor in determining the necessity, form and frequency of any reports required to be submitted by the Contractor to DOE under this contract.

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SECTION D

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SECTION D - PACKAGING AND MARKING

D.1 - PACKAGING

Preservation, packaging, and packing for shipment or mailing of all work delivered hereunder shall be in accordance with good commercial practice and adequate to insure acceptance by common carrier and safe transportation at the most economical rates.

D.2 - MARKING

Each package, report or other deliverable shall be accompanied by a letter or other document which:

- (a) Identifies the contract number under which the item is being delivered.
- (b) Identifies the contract requirement or other instruction which requires the delivered item(s).

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SECTION E

INSPECTION AND ACCEPTANCE

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SECTION E - INSPECTION AND ACCEPTANCE

E.1 - FAR 52.246-9 - INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM) (APR 1984)

The Government has the right to inspect and evaluate the work performed or being performed under the contract, and the premises where the work is being performed, at all reasonable times and in a manner that will not unduly delay the work. If the Government performs inspection or evaluation on the premises of the Contractor or a subcontractor, the Contractor shall furnish and shall require subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

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PART I

SECTION F - DELIVERIES OR PERFORMANCE

F.1 - PERIOD OF PERFORMANCE

- (a) This contract shall be effective as specified in Block No. 28 - Award Date, of Standard Form 33, and shall continue up to and including May 31, 2025, unless sooner terminated according to its terms. The contract may be extended in accordance with Clause F.2 - AWARD TERM INCENTIVE (SPECIAL).
- (b) The contract transition period is from award date through May 31, 2005.

F.2 - AWARD TERM INCENTIVE (SPECIAL)

- (a) Definitions. For purposes of this clause:
 - (1) Reserved.
 - (2) The performance measures for the "Contractor Performance Ratings" are defined in Section J, Appendix B entitled, "Performance Evaluation and Measurement Plan."
 - (3) "Award Term Determination Official (ATDO)" means the Department of Energy official designated to determine whether the contractor has met the contractual requirements in order to earn any award term extension during an evaluation period. The ATDO and the Fee Determination Official (FDO) may be the same person.
 - (4) "Initial contract term" for purposes of this clause only, means the period of performance commencing on the date the contractor assumes full responsibility for the Laboratory from June 1, 2005, through May 31, 2010.
- (b) Eligibility for Award Term Extensions. In order for the contractor to earn a contract term extension pursuant to the award term incentive, the contractor must:
 - (1) Have been assessed by the FDO to have achieved an annual rating in both the Science & Technology and Management and Operations components for each performance evaluation period (except as provided in (2) below) that meets or exceeds the scores identified in the

Performance Evaluation and Measurement Plan (or equivalent document) as establishing eligibility for the award term incentive, and, meet the contract performance objectives, standards, or criteria and other contract requirements applicable to earning additional award term, defined in the Performance Evaluation and Measurement Plan (or equivalent document), as determined by the ATDO.

- (2) With respect to the evaluation period for the first award term extension, the Contractor must achieve an overall rating of at least satisfactory for the first performance evaluation period and an overall rating meeting the criteria in paragraph (1) above for each of the next two performance evaluation periods.

(c) Award Term Evaluation and Determination

- (1) The Government may extend the contract term up to a total of twenty years through operation of this award term incentive clause. The evaluation period for the first award term extension will be the first three performance evaluation periods of the initial contract term. Evaluations for subsequent award term extensions will be conducted annually.
- (2) The ATDO will unilaterally determine if the contractor: (i) meets eligibility requirements to earn an award term extension; and (ii) has earned additional contract term.
- (3) The amount of award term that may be earned by the contractor for the first award term extension is thirty-six (36) months. The amount of award term that may be earned by the contractor for each subsequent award term extension is twelve (12) months.
- (4) If the ATDO determines that the contractor has earned additional award term, the Contracting Officer will unilaterally modify the contract to extend the term of the contract.
- (5) If the Contractor fails either (i) to earn the first award term extension, or (ii) to earn the award term 3 times, the contractor becomes ineligible to earn any additional award term extension(s) under the contract.

(d) Conditions.

- (1) This clause does not confer any other rights to the Contractor other than the right to earn additional contract term as specified herein. Any additional contract term awarded to the Contractor under this clause is

subject to all of the other terms and conditions of this Contract. Should the terms of this clause conflict with the terms of any other clause under this Contract, then this clause shall be subordinate.

- (2) The contractor's earning of an award term extension and the contractor's right to perform an earned award term extension are subject to:
 - (i) The Government's continuing need for the contract's work;
 - (ii) The availability of funds; and
 - (iii) Mutual agreement by the parties to contract modifications that incorporate changes to, or new, DOE policy or contract clauses;
- (3) The Government may make unilateral changes to the Performance Evaluation and Measurement Plan (or equivalent document) prior to the start of an award term evaluation period.
- (4) The contractor is not entitled to any cancellation charges, termination costs, equitable adjustments, or any other compensation due to the contractor failing to earn or forfeiting award term.
- (5) A significant failure of Contractor's management controls as defined in Clause I.120 - DEAR 970.5203-1, MANAGEMENT CONTROLS (PREV. I.76), or a first degree performance failure as defined in Clause I.127 - DEAR 970.5215-3, CONDITIONAL PAYMENT OF FEE, PROFIT, AND OTHER INCENTIVES – FACILITY MANAGEMENT CONTRACTS (PREV. I.83), may result in the forfeiture of up to 3 years of earned award term. This potential forfeiture is in addition to other remedies provided for in the contract.

F.3 - FAR 52.242-15 - STOP WORK ORDER (AUG 1989) ALTERNATE I (APR 1984)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either --

- (1) Cancel the stop-work order; or
 - (2) Terminate the work covered by the order as provided in the Termination clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected, and the contract shall be modified, in writing, accordingly, if --
- (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 - (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

F.4 - STOP WORK AND SHUTDOWN AUTHORITY (SEP 2017)

FAR 52.242-15 – Stop Work Order, Alternate I, allows only the Contracting Officer to stop work or shutdown facilities for reasons other than harm or imminent danger to the environment or health and safety of employees and the public.

Due to the immediate need to stop work due to situations where the Contractor's acts or failures to act cause substantial harm or present an imminent danger to the environment or health and safety of employees or the public, any DOE employee may exercise the stop work authority contemplated in Clause I.131 - DEAR 970.5223-1, INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO WORK PLANNING AND EXECUTION (PREV. I.86).

F.5 - PRINCIPAL PLACE OF PERFORMANCE

The principal place of contract performance is at the site of the Ernest Orlando Lawrence Berkeley National Laboratory, Berkeley, Alameda County, California.

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CONTRACT ADMINISTRATION DATA

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SECTION G - CONTRACT ADMINISTRATION DATA

G.1 - DOE CONTRACTING OFFICER

For the definition of Contracting Officer see Clause I.1 - FAR 52.202-1, DEFINITIONS, of this contract. The Contracting Officer is the only individual who has the authority on behalf of DOE to take the following actions under the contract:

- (1) assign additional work within the general scope of the Statement of Work of the contract;
- (2) issue a change as defined in the "Changes" clause of the contract;
- (3) change any of the expressed terms, conditions or specifications of the contract;
- (4) accept non-conforming work; or
- (5) waive any requirement of this contract.

G.2 - DOE CONTRACTING OFFICER'S REPRESENTATIVE(S) (COR)

Performance of the work under this contract shall be subject to the technical direction of DOE Contracting Officer's Representative(s) in accordance with Clause I.116- DEAR 952.242-70, TECHNICAL DIRECTION (PREV. I.73A). Any change in any DOE COR may be made administratively by letter from the Contracting Officer consistent with Clause I.116- DEAR 952.242-70, TECHNICAL DIRECTION (PREV. I.73A).

G.3 - CONTRACT ADMINISTRATION

The contract will be administered by:

Maria C. Robles
Office of Science Contracting Officer
U.S. Department of Energy, Bay Area Site Office
Ernest Orlando Lawrence Berkeley National Laboratory
1 Cyclotron Road, MS 90-1023
Berkeley, CA 94720
maria.robles@science.doe.gov

Written communications regarding the contract shall be mailed (or electronically sent) to the above address except for correspondence regarding intellectual property (other than invention disclosures, which are reported to the Consolidated Service Center via iEdison) related matters which should be addressed to:

U.S. Department of Energy
Office of Chief Counsel - Intellectual Property Law Division
ATTN: Gary Drew
Bay Area Site Office
Ernest Orlando Lawrence Berkeley National Laboratory
1 Cyclotron Road, MS 90-1023
Berkeley, CA 94720
gary.drew@science.doe.gov

PART II

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SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 - LABORATORY FACILITIES

DOE agrees to furnish and make available to the Contractor, for its use in performing the work under this contract, the Laboratory facilities designated as follows:

- (a) The Government-owned or leased land, buildings, utilities, equipment and other facilities situated at the Ernest Orlando Lawrence Berkeley National Laboratory Site at Berkeley, Alameda County, California;
- (b) Government-owned or leased facilities at such other locations as may be approved by DOE for use under this contract; and
- (c) Subject to mutual agreement, other facilities may be used in the performance of the work under this contract.

DOE reserves the right to make part of the above-mentioned land or facilities available to other Government agencies or other users on the basis that the responsibilities and undertakings of the Contractor will not be unreasonably interfered with. Before exercising its right to make any part of the land or facilities available to another agency or user, DOE will confer with the Contractor.

H.2 - LONG-RANGE PLANNING, PROGRAM DEVELOPMENT AND BUDGETARY ADMINISTRATION (SEPT 2017)

- (a) Basic Considerations. Throughout the process of planning, and budget development and approval, the Parties recognize the desirability for close consultation, for advising each other of plans or developments on which subsequent action will be required, and for attempting to reach mutual understanding in advance of the time that action needs to be taken.
- (b) Long Range Planning. It is the intent of the Parties to develop a five-year strategic outlook for Ernest Orlando Lawrence Berkeley National Laboratory. Development of this document is the strategic planning process by which the Parties, through mutual consultation, reach agreement on the general types and levels of activity which will be conducted at the Laboratory for the designated period. It also serves as a baseline for placement of work at the Laboratory. The contents of the plan should include: Mission Overview, Funding by Source, Human Resources, Core Capabilities, Science Strategies for the Future, Major

Initiatives, Infrastructure Plans, Mission Readiness and Strategic Partnership Projects (SPP). The Contractor shall submit an annual Laboratory Plan which provides insight into accomplishments against this strategic document. The Contractor is expected to contribute to long range planning conducted by the Office of Science.

- (c) Budgetary Administration. DOE approval of program proposals and budget estimates will be reflected in work authorizations and financial plans developed and issued to the Contractor.

H.3 - RESERVED

H.4 - ADVANCE UNDERSTANDINGS REGARDING ADDITIONAL ITEMS OF ALLOWABLE AND UNALLOWABLE COSTS AND OTHER MATTERS

Allowable costs under this Contract shall be determined according to the requirements of Clause I.148 - DEAR 970.5232-2, PAYMENTS AND ADVANCES (PREV. I.102). For purposes of effective Contract implementation, certain items of cost are being specifically identified below as allowable and/or unallowable under this Contract to the extent indicated:

I. ITEMS OF ALLOWABLE COSTS:

- (a) Personnel costs in accordance with Section J, Appendix A - ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES, attached to this contract.
- (b) Rentals and leases of land, buildings, and equipment owned by third parties, allowances in lieu of rental, charges associated therewith and costs of alteration, remodeling and restorations where such items are used in the performance of the contract, except that such rentals and leases directly chargeable to the contract shall be subject to such approval by the Contracting Officer as set forth in Section J, Appendix G - PURCHASING SYSTEM REQUIREMENTS.
- (c) Notwithstanding the provisions of FAR cost principle 31.205-44 (e), stipends and payments made to reimburse travel or other expenses of researchers and students who are not employed under this contract but are participating in research, educational or training activities under this contract to the extent such costs are incurred in connection with fellowship, international agreements, or other research, educational or training programs approved by the Contracting Officer.
- (d) Notwithstanding the provisions of FAR cost principle 31.205-44 (e), payments to educational institutions for tuition and fees, or institutional allowances, in connection with fellowship or other research, educational or training programs for researchers and students who are not employed under this contract.

- (e) Expenditures by the Contractor to reimburse other employers for payments (including, but not limited to, salaries) to or for the benefit of their employees loaned to the Contractor for and engaged in the performance of the Contractor's undertaking hereunder.
- (f) Costs incurred or expenditures made by the Contractor, as directed, approved or ratified by the Contracting Officer and not unallowable under any other provisions of this contract.

II. ITEMS OF UNALLOWABLE COSTS:

- (a) Premium Pay for wearing radiation-measuring devices for Laboratory and all-tier cost-type subcontract employees.
- (b) In accordance with DEAR 970 home office expenses are unallowable, unless approved by the Contracting Officer (CO). The contractor is allowed to submit a home office expense proposal in accordance with DEAR 970.3102-3-70. Said proposal cannot exceed \$2,500,000 in any fiscal year. Upon Head of Contracting Activity (HCA) and CO approval home office expenses will be allowable.
- (c) Home office expenses are not included in fee.

H.4A - FACILITIES CAPITAL COST OF MONEY

The request for proposal for this contract did not require a cost proposal in which facilities capital cost of money would apply. Therefore, the Clause I.31, FAR 52.215-17, WAIVER OF FACILITIES CAPITAL COST OF MONEY (PREV. I.116) is included in the contract. However, if during the performance of the contract the Contractor elects to claim facilities capital cost of money as an allowable cost, the Contractor shall submit to the Contracting Officer for approval a proposal for each specific project, including Form CASB-CMF which shows the calculation of the proposed amount (see FAR 31.205-10).

H.5 - ADMINISTRATION OF SUBCONTRACTS

- (a) The administration of all subcontracts entered into and/or managed by the Contractor, including responsibility for payment hereunder, shall remain with the Contractor unless assigned at the direction of DOE.
- (b) The DOE reserves the right to direct the Contractor to assign to the DOE, or another Contractor, any subcontract awarded under this contract.
- (c) The DOE reserves the right to identify specific work activities in Section C "Description/Specifications/Work Statement" to be removed (de-scoped) from the contract in order to contract directly for the specific work activities. The

Department will work with the Contractor to identify the areas of work that can be performed by small businesses in order to maximize direct federal contracts with small businesses. The Contractor agrees to facilitate these actions. This facilitation will include identifying direct contracting opportunities valued at \$5 million or above for small businesses for work presently performed under subcontracts, as well as work performed by Contractor employees. The Contractor shall notify the DOE one-year in advance of the expiration of any of its subcontracts valued at \$5 million or above, or if applicable, one-year prior to the exercise of an option and/or the option notification requirement, if any, contained in the subcontracts. The DOE will review this information and the requirements of the Contractor to determine the appropriateness for small business opportunities. This review may result in the DOE electing to enter in contracts directly with small businesses for these areas of work. The Contracting Officer will give notice to the Contractor not less than 120 calendar days prior to the date for exercising the option and/or the expiration of the subcontract and/or prior to entering into contract for work being performed by Contractor employees. Following award of these direct federal contracts, DOE may assign administration of these contracts to the Contractor. The Contractor agrees to accept assignments from the DOE for the administration of these contracts. The parameters of the Contractor's responsibilities for the small business contracts and/or changes, if any, to this contract will be incorporated via a modification to the contract. The Contractor will accept management and administration responsibilities, if so determined.

- (d) To the extent that DOE removes (de-scopes) work from this contract, any such removed or withdrawn work shall be treated as a change in accordance with the clause of this contract entitled, "Changes". A material change for the purpose of this clause is defined as cumulative changes during a fiscal year that result in a plus or minus 10% change to the Laboratory's budget. To the extent that DOE assigns the administration of a contract to the Contractor, or removes (de- scopes) work, the Parties reserve the right to negotiate an equitable adjustment in the Contractor's annual available performance fee. The negotiation of fee will be in accordance with the contract clause entitled, "Determining Total Available Performance Fee and Fee Earned". The Parties will also negotiate appropriate adjustments to the Contractor's Subcontracting Plan or any other applicable contract terms and conditions impacted by such withdrawal or addition of work scope to recognize the changes to the Contractor's subcontracting base and goals.

H.6 - CARE OF LABORATORY ANIMALS (SEP 2017)

- (a) Before undertaking performance of any contract involving the use of laboratory animals, the Contractor shall register with the Secretary of

Agriculture of the United States in accordance with Section 6, Public Law 89-544, Laboratory Animal Welfare Act, August 24, 1966, as amended. The Contractor shall furnish evidence of such registration to the Contracting Officer.

- (b) The Contractor shall acquire animals used in research and development programs from a dealer licensed by the Secretary of Agriculture, or from exempted sources in accordance with the Public Law enumerated in paragraph (a) above.
- (c) In the care of any animals used or intended for use in the performance of this contract, the Contractor shall comply with USDA regulations governing animal care and usage, as well as all other relevant local, State, and Federal regulations concerning animal care and usage. In addition, the Contractor will ensure that research will be conducted in a facility that either: (i) has a current National Institutes of Health (NIH) assurance number for animal care and usage, or (ii) is currently accredited for animal care and usage by an appropriate organization such as the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International, or (iii) has a DOE Assurance Plan Number.

H.7 - PRIVACY ACT RECORDS

In accordance with the Privacy Act of 1974, 5 U.S.C. 552a (Public Law 93-579) and implementing DOE Regulations (10 CFR 1008), the Contractor shall maintain the following "Systems of Records" on individuals in order to accomplish the United States Department of Energy functions:

- Personnel Medical Records (DOE-33) (excepting Contractor employees)
- Personnel Radiation Exposure Records (DOE-35)
- Occupational and Industrial Accident Records (DOE-38)
- Employee and Visitor Access Control Records (DOE-51)
- Access Control Records of International Visits, Assignments, and Employment at DOE Facilities and Contractor Sites (DOE-52)

The system of Records DOE-5, Personnel Records of Former Contractor Employees, is not included in the contract because, the Government relies on the protocol in place for Energy Employees Illness Compensation Program Act (EEIOCPA), per Modification 868.

The parenthetical Department of Energy number designations for each system of records refers to the official "System of Records" number published by the United States Department of Energy in the Federal Register pursuant to the Privacy Act.

If DOE requires the Contractor to design, develop, or maintain additional systems of Government-owned records on individuals to accomplish an agency function in accordance with the Privacy Act of 1974 and 10 CFR 1008, the Contracting Officer, or designee, shall so notify the Contractor, in writing, and such Privacy Act system shall be deemed added to the above list whether incorporated by formal contract modification or not. The Parties shall mutually agree to a schedule for implementation of the Privacy Act with respect to each such system.

H.8 - ADDITIONAL DEFINITIONS

- (a) CSC means the DOE Office of Science, Consolidated Service Center.
- (b) Contractor means the Offeror as specified in Block 15A of Standard Form 33 for Contract No. DE-AC02-05CH11231.
- (c) The term DOE means the Department of Energy, FERC means the Federal Energy Regulatory Commission, and NNSA means the National Nuclear Security Administration.
- (d) The term DOE Directive means DOE Policies, Orders, Notices, Manuals, Regulations, Technical Standards and related documents, and Guides, including for purposes of this contract those portions of DOE's Accounting and Procedures Handbook applicable to integrated Contractors, issued by DOE. The term does not include temporary written instructions by the Contracting Officer for the purpose of addressing short-term or urgent DOE concerns relating to health, safety, or the environment.
- (e) Head of Agency means: (i) The Secretary; (ii) Deputy Secretary; (iii) Under Secretaries of the Department of Energy and (iv) the Chairman, Federal Energy Regulatory Commission.
- (f) Head of Contracting Activity for the Ernest Orlando Lawrence Berkeley National Laboratory means the Deputy Director of Field Operations.
- (g) Laboratory means the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) composed of Government-owned buildings and facilities together with the necessary utilities, now existing or hereafter to be acquired, constructed and equipped, most of which are or will be situated on the Government-leased plot or plots of land (hereinafter referred to as the "Laboratory Site") at Berkeley, Alameda County, California.
- (h) The term "someone acting as the Laboratory Director" means the person appointed as Laboratory Director; Deputy Laboratory Director(s) acting in the

absence of the Laboratory Director; or a person specified, in writing, to have authority to act in the absence of the Laboratory Director and Deputy Laboratory Director(s).

- (i) With respect to Clause I.143 - DEAR 970.5227-10, PATENT RIGHTS – MANAGEMENT AND OPERATING CONTRACTS, NONPROFIT ORGANIZATION OR SMALL BUSINESS FIRM CONTRACTOR (PREV. I.97), the term nonprofit organization means –
 - (1) a university or other institution of higher education,
 - (2) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 as amended and exempt from taxation under section 501(a) and the Internal Revenue Code,
 - (3) any nonprofit scientific or educational organization qualified as a nonprofit by the laws of the State of its organization or incorporation, or
 - (4) a combination of qualifying entities organized for a nonprofit purpose (e.g., partnership, joint venture or limited liability company) each member of which meets the requirements of (1), (2), or (3) above.
- (j) The term Senior Procurement Executive means, for DOE: Department of Energy – Director, Office of Acquisition and Project Management; National Nuclear Security Administration – Administrator for Nuclear Security, NNSA; and Federal Energy Regulatory Commission – Chairman, FERC.
- (k) Successor Plan means any pension or other benefit plan established or maintained pursuant to Clause H.41, PENSION PLAN, paragraph (f) and covering Contractor employees performing work on this Contract.
- (l) The UCRP means the University of California Retirement Plan.
- (m) With respect to Clause H.30, CONTRACTOR ASSURANCE SYSTEM, the following definitions apply:
 - (1) In paragraph (a) the term “Board of Directors” shall mean the “LBNL Contract Assurance Council”.
 - (2) In paragraph (a) the term “throughout the Contractor’s organization” shall mean those portions of the University operations that are subject to contract DE- AC02-05CH11231, alternatively - “the Laboratory”.

H.9 - SERVICE CONTRACT ACT OF 1965 (41 U.S.C. 351)

The Service Contract Act of 1965 is not applicable to this contract. However, in accordance with Clause I.159 – DEAR 970.5244-1, CONTRACTOR PURCHASING SYSTEM (PREV. I.114), subcontracts awarded by the Contractor are subject to the Act to the same extent and under the same conditions as contracts awarded by DOE. The Contractor and the Contracting Officer shall develop a procedure whereby DOE will determine if the Service Contract Act is applicable to particular subcontracts.

H.10 - WALSH-HEALEY PUBLIC CONTRACTS ACT (41 U.S.C 35)

Except as otherwise may be approved, in writing, by the Contracting Officer, the Contractor agrees to insert the following provision in noncommercial Purchase Orders and subcontracts under this contract. "If this contract is for the manufacture or furnishing of materials, supplies, articles, or equipment in an amount which exceeds or may exceed \$15,000.00 and is otherwise subject to the Walsh-Healey Public Contracts Act, as amended (41 U.S.C. 35), there are hereby incorporated by reference all representations and stipulations required by said Act and regulations issued thereunder by the Secretary of Labor, such representations and stipulations being subject to all applicable rulings and interpretations of the Secretary of Labor which are now or may hereafter be in effect."

H.11 - PROTECTION OF HUMAN SUBJECTS

Before undertaking the performance of any research involving the use of human subjects, the provisions of 10 CFR 745 and the applicable DOE Order regarding Protection of Human Subjects, must be complied with. This requirement applies to research undertaken with DOE support, strategic partnership projects, and collaborations with other institutions.

H.12 - IMPLEMENTATION OF CLAUSE DEAR 952.204-2 – SECURITY

- a) All applicable parts of clause I.104 - DEAR 952.204-2 SECURITY (PREV. I.159) apply to the contract. The parties acknowledge the following circumstances with respect to DEAR 952.204-2:
 - 1) Lawrence Berkeley National Laboratory (LBNL) holds no classified materials or information and does no classified work at any LBNL location.
 - 2) LBNL does possess a minimal amount of Special Nuclear Material (SNM) that is designated Category IV (per DOE O 474.2) and access to this SNM

currently does not require an access authorization (Per DOE Order 472.2 Personnel Security).

- 3) LBNL's SNM is used only in support of unclassified, non-weapons-related research (e.g. nuclear chemistry, radiobiology, nuclear physics, instrument calibration, system performance verification).

If the above circumstances change or new information regarding these circumstances comes to light, then the Contractor must notify the Contracting Officer so that appropriate action can be taken to reserve or include relevant DEAR Clauses as applicable.

H.13 - IMPLEMENTATION OF CLAUSE FAR 52.204-9 – PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL

As an unclassified facility, the Laboratory Director and certain staff members each have a personal security clearance to receive information and participate in classified meetings at other facilities. Clause I.15 - FAR 52.204-9, PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (PREV. I.141) will apply only to those LBNL personnel who do hold a personal security clearance and receive the federal credential referenced in this clause.

H.14 - STANDARDS OF CONTRACTOR PERFORMANCE EVALUATION

- (a) Use of objective standards of performance, self-assessment and performance evaluation:
 - (1) The Parties agree that the Contractor will utilize a comprehensive performance-based management approach for overall Laboratory management. The performance-based management approach will include the use of objective performance goals and indicators, agreed to in advance of each performance evaluation period, as standards against which the Contractor's overall performance of the scientific and technical mission obligations under this Contract will be assessed. The performance criteria will be limited in number and focus on results to drive improved performance and increased effective and efficient management of the Laboratory.
 - (2) The Parties agree to utilize the process described within Section J, Appendix B - PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP) to evaluate the performance of the Laboratory. The Parties further agree that the evaluation process described in Section J, Appendix B, will be reviewed annually and modified, if necessary, by agreement of

the Parties. If agreement of the Parties cannot be reached, the Contracting Officer has the unilateral right to establish the evaluation process.

- (3) The Parties agree that the Contractor will conduct an ongoing self-assessment process as the principal means of determining its compliance with the Contract Statement of Work and performance indicators identified within Section J, Appendix B. To assist the DOE in accomplishing the appropriate level of oversight, the Contractor shall work in partnership and cooperation with DOE and other external organization, as appropriate, in the self-assessment process. This work includes, but is not limited to, the development and execution of self-assessments and the utilization of the results for continuous improvement.
- (4) The Contractor shall provide periodic updates, as requested by the DOE, on the performance against Section J, Appendix B. The Contractor shall provide a formal status briefing at mid-year and year-end. Specific due dates and formats for the above-mentioned briefings shall be agreed to by the Laboratory Director and the DOE Bay Area Site Office Manager.
- (5) DOE, as a part of its responsibility for oversight, evaluation, and information exchange, shall provide an annual programmatic appraisal and other appraisals, and reviews of the Contractor's performance of authorized work in accordance with the terms and conditions of this Contract. The Office of Science, through the Bay Area Site Office Manager, has the lead responsibility for oversight of the programs and activities conducted by the Contractor.
- (6) The Contracting Officer shall annually provide a written assessment of the Laboratory's performance to the Contractor, which shall be based upon the process described in Section J, Appendix B. The Parties acknowledge that the performance levels achieved against the specific performance objectives and measures shall be the primary, but not sole, criteria for determining the Contractor's final performance evaluation and rating. The Contractor's self-assessment results, to include results of any third party reviews which may have been conducted during the evaluation period, will be considered at all levels to assess and evaluate the Contractor's performance. The Contracting Officer may also consider other relevant information not specifically measured by the objectives and measures established within Section J, Appendix B, that is deemed to have an impact (either positive or negative) on the Contractor's performance. Other relevant information that may be used by the Contracting Officer may include, but is not limited to, information gained from peer reviews, operational awareness, outside agency reviews (i.e., Office of Inspector

General (OIG), Government Accountability Office (GAO), Defense Contract Audit Agency (DCAA), etc.) conducted throughout the year, annual reviews (if needed), and DOE "for cause" reviews. Contractor success or failure in meeting performance expectations in a management or operating area may affect the level and/or mix of oversight attributed to a particular functional element.

(b) Standards of performance measure review:

- (1) The Parties agree to review the PEMP elements (goals, objectives, performance indicators, and expected levels of performance) contained in Section J, Appendix B, annually and to modify them upon the agreement of the Parties; provided, however, that if the Parties cannot reach agreement on all the goals, objectives, performance indicators, and expected levels of performance for the next period, the Contracting Officer shall have the unilateral right to establish reasonable new goals, objectives, performance indicators and expected levels of performance and/or to modify and/or delete existing goals, objectives, performance indicators, and expected levels of performance. It is expected that the goals, objectives, performance indicators, and expected levels of performance will be modified by the Contractor and the DOE as new areas of emphasis or priorities emerge which the Parties may agree warrant recognition in the performance-based integrated management approach.
- (2) Failure to include an objective or performance indicator in the contract does not eliminate the Contractor's obligation to comply with all applicable terms and conditions as set forth elsewhere within the contract.
- (3) In the event the Contracting Officer decides to exercise the rights set forth in paragraphs (a)(6) or (b)(1) above, he/she will notify the Contractor, in writing, of the intended decision ten days prior to issuance.

H.15 - CAP ON LIABILITY (SEPT 2017)

- (a) The Parties have agreed that the Contractor's liability, for certain obligations it has assumed under this contract, shall be limited as set forth in paragraph (b) below. These limitations or caps shall only apply to obligations the Contractor has assumed pursuant to the following clauses:
 - (1) The Section I Clause I.160 entitled "DEAR 970.5245-1 - Property" (PREV. I.115), paragraph (f)(1)(i)(C);
 - (2) The Section I Clause I.144 entitled "DEAR 970.5228-1 - Insurance-- Litigation and Claims" (PREV. I.98), paragraph (f); with respect to prudent business judgment only; and

- (3) The Section I Clause I.144 entitled "DEAR 970.5228-1 - Insurance-- Litigation and Claims" (PREV. I.98), paragraph (g)(2); except for punitive damages resulting from the willful misconduct or lack of good faith on the part of the Contractor's managerial personnel as defined in the Section I Clause I.160 entitled "DEAR 970.5245-1 - Property" (PREV. I.115).
- (b) Unless otherwise prohibited by law or regulation, the Contractor shall be liable each fiscal year for an amount not-to-exceed 1.25 times the maximum performance fee available for that fiscal year. The annual cap which will apply shall be based on the fiscal year in which the Contractor's act or failure to act was the proximate cause of the liability assumed by the Contractor. In the event the Contractor's act or failure to act overlaps more than one (1) fiscal year, the limitation will be the annual limitation for the last fiscal year in which the Contractor's act or failure to act occurred. If the Contractor's cumulative obligations for a fiscal year equal the amount of the annual limitation of liability, the Contractor shall have no further responsibility for the costs of the liabilities it has assumed for that fiscal year pursuant to (a)(1) through (3) above.

H.16 - INTELLECTUAL AND SCIENTIFIC FREEDOM

- (a) The Parties recognize the importance of fostering an atmosphere at the Laboratory conducive to scientific inquiry and the development of new knowledge and creative and innovative ideas related to important national interests.
- (b) The Parties further recognize that the free exchange of ideas among scientists and engineers at the Laboratory and colleagues at universities, colleges, and other laboratories or scientific facilities is vital to the success of the scientific, engineering, and technical work performed by Laboratory personnel.
- (c) In order to further the goals of the Laboratory and the national interest, it is agreed by the Parties that the scientific and engineering personnel at the Laboratory shall be accorded the rights of publication or other dissemination of research, and participation in open debate and in scientific, educational, or professional meetings or conferences, subject to the limitations included in technology transfer agreements and such other limitations as may be required by the terms of this Contract. Nothing in this clause is intended to alter the obligations of the Parties to protect classified or unclassified controlled nuclear information as provided by law.
- (d) Nothing in Clause I.107 - DEAR 952.204-75, PUBLIC AFFAIRS, or in Clause H.32, LOBBYING RESTRICTION (CONSOLIDATED APPROPRIATIONS ACT

SECTION 501) (PREV. I.64) is intended to limit the rights of the Contractor or its employees to publicize and to accurately state the results of its scientific research.

H.17 - NOTICE REGARDING THE PURCHASE OF AMERICAN-MADE EQUIPMENT AND PRODUCTS - SENSE OF CONGRESS (SEP 2017)

It is the sense of the Congress that, to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made.

H.18 - APPLICATION OF DOE CONTRACTOR REQUIREMENTS DOCUMENTS (SEPT 2017)

- (a) Performance. The Contractor will perform the work of this contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this contract as Section J, Appendix I entitled "DOE Directives/List B," until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described below.
- (b) Laws and Regulations Excepted. The process described in this clause shall not affect the application of otherwise applicable laws and regulations of the United States, including regulations of the Department of Energy.
- (c) Deviation Processes in Existing Orders. This clause does not preclude the use of deviation processes provided for in existing DOE directives.
- (d) Proposal of Alternative. The Laboratory Director may, at any time during performance of this contract, propose an alternative procedure, standard, system of oversight, or assessment mechanism to the requirements in a listed CRD by submitting to the Contracting Officer a signed proposal describing the nature and scope of the alternative procedure, standard, system of oversight, or assessment mechanism (alternative), the anticipated benefits, including any cost benefits, to be realized by the Contractor in performance under the contract, and a schedule for implementation of the alternate. In addition, the Contractor shall include an assurance signed by the Laboratory Director that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Upon request, the Contractor shall promptly provide the Contracting Officer any additional information that will aid in evaluating the Contractor's proposal.
- (e) Action of the Contracting Officer. The Contracting Officer shall within 60 days:
 - (1) deny application of the proposed alternative;

- (2) approve the proposed alternative, with conditions or revisions;
 - (3) approve the proposed alternative; or
 - (4) provide a date by which a decision will be made (not to exceed an additional 60 days).
- (f) Implementation and Evaluation of Performance. Upon approval in accordance with (e)(2) or (e)(3) above, the Contractor shall implement the alternative. In the case of a conditional approval under (e)(2) above, the Contractor shall provide the Contracting Officer with an assurance statement, signed by the Laboratory Director, that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Additionally, the statement shall describe any changes to the schedule for implementation. The Contractor shall then implement the revised alternative. DOE will evaluate performance of the approved alternative from the date scheduled by the Contractor for implementation.
- (g) Application of Additional or Modified CRDs. During performance of the contract, the Contracting Officer may notify the Contractor that he or she intends to unilaterally add CRDs not then listed in Section J, Appendix I entitled "DOE Directives/List B" or modifications to listed CRDs. Upon receipt of that notice, the Contractor, within 30 calendar days, may, in accordance with paragraph (d) of this clause, propose an alternative procedure, standard, system of oversight, or assessment mechanism. The resolution of such a proposal shall be in accordance with the process set out in paragraphs (e) and (f) of this clause. If an alternative proposal is not submitted by the Contractor within the 30 calendar day period, or, if made, is denied by the Contracting Officer under paragraph (e), the Contracting Officer may unilaterally add the CRD or modification to Section J, Appendix I entitled "DOE Directives/List B". The Contractor and the Contractor Officer shall identify and, if appropriate, agree to any changes to other contract terms and conditions, including cost and schedule, resulting from the addition of the CRD or modification.
- (h) Deficiency and Remedial Action. If, during performance of this contract, the Contracting Officer determines that an alternative procedure, standard, system of oversight, or assessment mechanism adopted through the operation of this clause is not satisfactory, the Contracting Officer may, in his or her sole discretion, determine that corrective action is necessary and require the Contractor to prepare a corrective action plan for the Contracting Officer's approval. If the Contracting Officer is not satisfied with the corrective action taken, the Contracting Officer may direct corrective action to remedy the deficiency, including, if appropriate, the reinstatement of the CRD.

H.19 - EXTERNAL REGULATION

The Parties commit to full cooperation with regard to complying with any statutory mandate regarding external regulation of Laboratory facilities, whether by the Nuclear Regulatory Commission, the Occupational Safety and Health Administration, the Environmental Protection Agency, and/or State and local entities with regulatory oversight authority, and including but not limited to the conduct of pilot programs simulating external regulation, and the application for materials, facilities, or other licenses by or on behalf of the DOE.

H.20 - PAID LEAVE UNDER SECTION 3610 OF THE CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT (CARES ACT) TO MAINTAIN EMPLOYEES AND SUBCONTRACTORS IN A READY STATE

- (a) The Contractor may submit for reimbursement and the Government (without requiring consideration but precluding additional fee) will treat as allowable (if otherwise allowable per federal regulations) the costs of paid leave (including sick leave) the Contractor or its subcontractors provide to keep employees in a ready state if—
 - (1) The employees: cannot perform work on a site approved by the Federal Government (including a federally-owned or leased facility or site) due to facilities closures or other restrictions; and cannot telework because their job duties cannot be performed remotely during the public health emergency declared on January 31, 2020 for COVID-19.
 - (2) The costs are incurred from January 31, 2020 through September 30, 2020.
 - (3) The costs do not reflect any amount exceeding an average of 40 hours per week for paid leave.
- (b) Where other relief provided for by the CARES Act or any other Act would benefit the contractor or the contractor's subcontractors, including, but not limited to, funds available under sections 1102 and 1106 of the CARES Act, the contractor should evaluate the applicability of such benefits in seeking reimbursement under the contract.
- (c) The Contractor must represent in any request for reimbursement—
 - (1) Either it: has not received, has not claimed, and will not claim any other reimbursement, including claims for reimbursement via letter of credit, for federal funds available under the CARES Act for the same purpose, including, but not limited to, funds available under sections 1102 and 1106

of the CARES Act; or if it has received, claimed, or will claim other reimbursement, that reimbursement has been reflected, or will be reflected when known, in requests for reimbursement but in no case reflected later than in its final proposal to determine allowable incurred costs.

- (2) Its request reflects or will reflect as soon as known, all applicable credits, including
 - (i) Tax credits, including credits allowed pursuant to division G of Public Law 116-127; and
 - (ii) Applicable credits allowed under the CARES Act, including applicable credits for loan guarantees.

H.21 - EMPLOYEE COMPENSATION: PAY AND BENEFITS

(a) Total Compensation System

The Contractor shall develop, implement and maintain formal policies, practices and procedures to be used in the administration of its compensation system consistent with FAR 31.205-6 and DEAR 970.3102-05-6; "Compensation for Personal Services" ("Total Compensation System"). DOE-approved standards, if any, shall be applied to the Total Compensation System. The Contractor's Total Compensation System shall be fully documented, consistently applied, and acceptable to the Contracting Officer. Periodic appraisals of contractor performance with respect to the Contractors' Total Compensation System will be conducted.

- (1) The description of the Contractor Employee Compensation Program should include the following components:
 - a. Philosophy and strategy for all pay delivery programs.
 - b. System for establishing a job worth hierarchy.
 - c. Method for relating internal job worth hierarchy to external market.
 - d. System that links individual and/or group performance to compensation decisions.
 - e. Method for planning and monitoring the expenditure of funds.
 - f. Method for ensuring compliance with applicable laws and regulations.
 - g. System for communicating the programs to employees.

- h. System for internal controls and self-assessment.
- i. System to ensure that reimbursement of compensation, including stipends, for employees who are on joint appointments with a parent or other organization shall be on a pro-rated basis.

(b) Reports and Information

The Contractor shall provide the Contracting Officer with the following reports and information with respect to pay and benefits provided under this Contract:

- (1) An Annual Contractor Salary-Wage Increase Expenditure Report to include, at a minimum, breakouts for merit, promotion, variable pay, special adjustments, and structure movements for each pay structure showing actual against approved amounts.
- (2) A list of the top five most highly compensated executives as defined in FAR 31.205-6(p)(2)(ii) and their total cash compensation at the time of Contract award, and annually by January 15th.
- (3) The Compensation and Benefits Report no later than March 1 of each year.

(c) Pay and Benefit Programs

The Contractor shall maintain pay and benefit programs for its employees; provided, however, that employees scheduled to work fewer than 20 hours per week receive only those benefits allowed by UC corporate benefits program. Employees are eligible for benefits, subject to the terms, conditions, and limitations of each benefit program. UC corporate benefit program costs are allowable provided such benefits are granted in accordance with established University policies, and are distributed to all University departments on an equitable basis. UC's historic and current methods for distributing such costs are considered to be equitable. The Contractor shall notify DOE prospectively of each new or changed UC corporate benefit plan that could have a significant impact on costs (i.e., increased costs or savings) under this Contract. Reimbursement for individual compensation is subject to the limits established by 41 U.S.C. 4304(a)(16).

(1) Cash Compensation

- (A) The Contractor shall submit the following, as applicable, to the Contracting Officer for a determination of cost allowability for reimbursement under the Contract:

- (i) Any proposed major compensation program design changes specific to LBNL prior to implementation.
- (ii) Variable pay programs/incentives. If not already authorized under Section J, Appendix A - ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES of the contract, a justification shall be provided with proposed costs and impacts to budget, if any.
- (iii) In the absence of Departmental policy to the contrary (e.g., Secretarial pay freeze) a Contractor that meets the criteria, as set forth below, is not required to submit a Compensation Increase Plan (CIP) request to the Contracting Officer for an advance determination of cost allowability for a Merit Increase fund or Promotion/Adjustment fund:
 - The Merit Increase fund does not exceed the mean percent increase included in the annual Departmental guidance providing the WorldatWork Salary Budget Survey's salary increase projected for the CIP year. The Promotion/Adjustment fund does not exceed 1% percent in total.
 - The budget used for both Merit Increase funds and Promotion/Adjustment funds shall be based on the payroll for the end of the previous CIP year.
 - Salary structure adjustments do not exceed the mean WorldatWork structure adjustments projected for the CIP year and communicated through the annual Department CIP guidance.
 - Please note: No later than the first day of the CIP cycle, Contractors must provide notification to the Contracting Officer of planned increases and position to market data by mutually agreed-upon employment categories.
- (iv) If a Contractor does not meet the criteria included in (iii) above, a CIP must be submitted to the Contracting Officer for an advance determination of cost allowability. The Compensation Increase Plan (CIP) for a Contractor that has received Contracting Officer approval for having an Employee Compensation Program with the components identified under (a)(1) above should include the following components and data:

- (1) Market analysis summary, including a comparison of average pay to market average pay.
- (2) Merit Fund requests for each Employee Group (i.e., S&E, Administrative, Technical, Exempt/Non-Exempt)
- (3) Aging factors used for escalating survey data
- (4) Projection of escalation in the market
- (5) Information to support proposed structure adjustments, if any.
- (6) Analysis to support special adjustments or promotions that exceed the 1% Promotion/ Adjustment fund authorized under Section III of Section J, Appendix A.
- (7) Discussion of recruitment/retention issues (e.g., turnover and hiring) relevant to the proposed increase amounts
- (8) A discussion of the impact of budget and business constraints on the CIP amount.
- (9) Information to support a request for variable pay authorization.
- (10)
 - (a) Reimbursed salary levels are used to establish the annual CIP fund.
 - (b) All pay actions granted under the compensation increase plan are fully charged when they occur regardless of time of year in which the action transpires and whether the employee terminates before year-end.
 - (c) Specific Employee or Payroll groups (e.g., exempt, nonexempt) for which CIP amounts are intended shall be defined by mutual agreement between the contractor and the Contracting Officer.
 - (d) The Contracting Officer may adjust the CIP amount after approval based on major changes in factors that significantly affect the plan amount (for example, in the event of a major reduction in force or significant ramp-up).

- (e) The Contractor may make minor shifts of merit funds between employment groups (e.g., Scientist/Engineer, Admin, Exempt, Non-Exempt) after approval of the CIP in order to meet the compensation requirements of its organization, subject to the following guidelines:
 - Minor shift is defined as up to 10% of the approved merit funds from one employment group to another (e.g., 10% of Professional, Administrative & Technical merit funds shifted to Scientists & Engineers employment group)
 - Total merit increase expenditures will be limited to the total merit fund approved.
 - Contractors will notify the Contracting Officer that funds have been shifted.
- (v) Individual compensation actions for the top contractor official (e.g., laboratory director/plant manager or equivalent) and key personnel not included in the CIP. For those key personnel included in the CIP, DOE will approve salaries upon the initial contract award and when key personnel are replaced during the life of the contract. DOE will have access to all individual salary reimbursements. This access is provided for transparency; DOE will not approve individual salary actions (except as previously indicated).
- (B) The Contracting Officer's approval of individual compensation actions will be required only for the top contractor official (e.g., laboratory director/plant manager or equivalent) and key personnel as indicated in (c)(1)(A)(iii) above. The Contractor shall not be reimbursed for the top contractor official's incentive compensation. The base salary reimbursement level for the top contractor official establishes the maximum allowable salary reimbursement under the contract when compared to subordinate compensation, which would include base salary and any potential incentive compensation under an incentive compensation agreement. Unusual circumstances may require a deviation for an individual on a case-by-case basis. Any such deviations must be approved by the Contracting Officer.

- (C) Severance Pay is not payable to an employee under this Contract if the employee:
 - (i) Voluntarily separates, resigns or retires from employment, (unless associated with a workforce restructuring action in accordance with Section XIII of Section J, Appendix A),
 - (ii) Is offered employment with a successor/replacement contractor,
 - (iii) Is offered employment with a parent or affiliated company, or
 - (iv) Is discharged for cause.
- (D) Service Credit for purposes of determining severance pay does not include any period of prior service for which severance pay has been previously paid through a DOE cost-reimbursement contract.

(d) Pension and Other Benefit Programs

- (1) The program of employee pensions and other benefits employed by the Contractor shall support at a reasonable cost the effective recruitment and retention of a highly skilled workforce at LBNL. No presumption of allowability will exist when the Contractor implements a new LBNL-specific benefits plan or makes changes to existing employee benefits plans that increase costs until the Contracting Officer makes a determination of cost reimbursement for reasonable changes to the program. Changes shall be in accordance with terms and conditions of the contract. Advance notification, rather than approval, is required for LBNL-specific changes that do not increase costs and are not contrary to Departmental policy or written instruction.
- (2) The Contractor shall provide a justification to the Contracting Officer for approval of new or revised LBNL-specific benefit plan changes that addresses:
 - (A) the effect of the plan changes on the Contract net benefit value or per capita benefit costs,
 - (B) provides the dollar estimate of savings or costs, and
 - (C) provides the basis of determining the estimated savings or cost.
- (3)
 - (A) Unless required by State or Federal statute, funding in advance for post-retirement benefits other than pensions (PRB) is not allowable.
 - (B) PRBs will be reimbursed for retiring LBNL employees having

worked not less than 5 years under a DOE cost reimbursement contract with the Contractor, and for The Regents of the University of California (UC) campus/medical center/UCOP retirees having worked less than 5 years at a UC campus/medical center/UCOP whose vesting service credit is based on service at LBNL or other DOE cost reimbursement contract with UC. This subparagraph (B) is effective June 1, 2018.

- (4) Each contractor sponsoring a Defined Benefit pension plan and/or postretirement benefit plan will participate in the annual plan management process, which includes written responses to a questionnaire regarding plan management, providing forecasted estimates of future reimbursements in connection with the plan and participating in a conference call to discuss the contractor submission.
- (5) Each contractor will respond to quarterly data calls issued through ibenefits, or its successor system.
- (6) Following notification from the Contracting Officer that the prime contract is to be competed, the Contractor shall submit an evaluation of the costs of benefits and an actuarial analysis of relative benefit value. The evaluation shall consist of an Employee Benefits Value Study for each benefit tier using no less than 15 comparators, and an Employee Benefits Cost Study Comparison for each benefit tier that analyzes benefit costs for employees on a per capita basis per full time equivalent employee and as a percent of payroll and compares it with the cost reported by the U.S. Department of Labor's Bureau of Labor Statistics or other Contracting Officer approved broad based national survey.

H.22 - CONTRACTOR ACCEPTANCE OF NOTICES OF VIOLATIONS OR ALLEGED VIOLATIONS, FINES, AND PENALTIES

- (a) The Contractor shall accept, in its own name, service of notices of violations or alleged violations (NOVs/NOAVs) issued by Federal or State regulators to the Contractor resulting from the Contractor's performance of work under this contract, without regard to liability. The allowability of the costs associated with fines and penalties shall be subject to the other provisions of this contract.
- (b) The Contractor shall notify DOE promptly when it receives service from the regulators of NOVs/NOAVs and fines and penalties.

H.23 - ALLOCATION OF RESPONSIBILITIES FOR CONTRACTOR ENVIRONMENTAL COMPLIANCE ACTIVITIES

- (a) The Parties commit to full cooperation with regard to acquiring any necessary permits or licenses required by environmental, safety and health (ES&H) laws, codes, ordinances, and regulations of the United States, states or territories, municipalities or other political subdivisions, and which are applicable to the performance of work under this contract. It is recognized that certain ES&H permits will be obtained jointly as co-permittees, and other permits will be obtained by either party as the sole permittee. The Contractor, unless otherwise directed by the Contracting Officer, shall procure all necessary non-ES&H permits or licenses.
- (b) This clause allocates the responsibilities of DOE and the Contractor, referred to collectively as the "Parties", for implementing the environmental requirements at facilities within the scope of the contract. In this Clause, the term environmental requirements means requirements imposed by applicable Federal, State, and local environmental laws and regulations, including, without limitation, statutes, ordinances, regulations, court orders, consent decrees, administrative orders, compliance agreements, permits, and licenses.
- (c)
 - (i) Liability and responsibility for civil fines or penalties arising from or related to violations of environmental requirements shall be borne by the party causing the violation irrespective of the fact that the cognizant regulatory authority may assess any such fine or penalty upon either party or both Parties without regard to the allocation of responsibility or liability under this contract. This contractual allocation of liability for any such fine or penalty is effective regardless of which party signs permit applications, manifests, reports, or other required documents, is a permittee, or is the named subject of an enforcement action or assessment of a fine or penalty. The allowability of the costs associated with fines and penalties assessed against the Contractor shall be subject to the other provisions of this contract.
 - (ii) In the event that the Contractor is deemed to be the primary party causing the violation, and the costs of fines and penalties proposed by the regulatory agency to be assessed against the Government (or the Government and Contractor jointly) are determined by the Government to be presumptively unallowable if allocated against the Contractor, then the Contractor shall be afforded the opportunity to participate in negotiations to settle or mitigate the penalties with the regulatory authority. If the Contractor is the sole party of the enforcement action, the Contractor shall take the lead role in the negotiations and the Government shall participate and have final authority to approve or reject any settlement involving costs charged to the contract.

- (d) DOE agrees that if bonds, insurance, or administrative fees are required as a condition for permits obtained by the Contractor under this contract, and the Contractor has been directed by the Contracting Officer to obtain such permits after the Contractor has notified the Contracting Officer of the costs of complying with such conditions, such costs shall be allowable. In the event such costs are determined by DOE to be excessive or unreasonable, DOE shall provide the regulatory agency with the acceptable form of financial responsibility. Under no circumstances shall the Contractor be required to provide any corporate resources or corporate guarantees to satisfy such regulatory requirements.

H.24 - WORKERS' COMPENSATION INSURANCE

- (a) Workers compensation loss income benefit payments, when supplemented by other programs (such as salary continuation, short-term disability) are to be administered according to UC Policy.
- (b) Contractors approve all workers compensation settlement claims up to \$100,000. Settlement claims above the \$100,000 require Contracting Officer approval.
- (c) Contractors shall provide copies to the Contracting Officer of all renewal policies for workers compensation. The Contractor shall furnish reports as may be required from time to time by the CO.

H.25 - LABOR RELATIONS

- (a) The Contractor shall respect the right of employees to organize and to form, join, or assist labor organizations, to bargain collectively through their chosen labor representatives, to engage in other concerted activities for the purpose of collective bargaining or other mutual aid or protection, and to refrain from any or all of these activities.
- (b) The Contractor shall meet with the Contracting Officer or designee(s) for the purpose of reviewing the Contractor's bargaining objectives that impact LBNL prior to negotiations of any collective bargaining agreement or revision thereto. For LBNL-specific collective bargaining process, the contractor shall consult with and obtain the approval of the Contracting Officer regarding appropriate economic bargaining parameters prior to the Contractor entering into the LBNL-specific collective bargaining process. During the LBNL-specific collective bargaining process, the Contractor shall notify the Contracting Officer before submitting or agreeing to any collective bargaining proposal which can be calculated to affect allowable costs under this contract or which could involve other items of special interest to the Government. During the collective bargaining process, the Contractor shall obtain the approval of the Contracting Officer before proposing or agreeing to changes in any LBNL-specific pension or

other benefit plans. For the purposes of this paragraph, "LBNL-specific collective bargaining process" shall refer to any bargaining process LBNL may undertake separate from the University of California as a whole.

- (c) The Contractor will seek to maintain harmonious bargaining relationships that reflect a judicious expenditure of public funds, equitable resolution of disputes and effective and efficient bargaining relationships consistent with the requirements of FAR, Subpart 22.1 and DEAR, Subpart 970.2201 and all applicable Federal and State Labor Relations laws.
- (d) The Contractor will notify the Contracting Officer or designee in a timely fashion of all labor relations issues and matters of local interest including organizing initiatives, unfair labor practice, work stoppages, picketing and labor arbitrations and settlement agreements and will furnish such additional information as may be required from time to time by the Contracting Officer.
- (e) The Contractor shall provide electronic access to copies of collective bargaining agreements to the Contracting Officer as they are ratified or modified.

H.26 - ADDITIONAL LABOR REQUIREMENTS

The Contractor shall conduct payroll and job-site audits and conduct investigations of complaints as authorized by DOE on all Davis Bacon Act activity, including any subcontracts, as may be necessary to determine compliance with the Davis-Bacon Act. Where violations are found, the Contractor shall report them to the DOE Contracting Officer. The Contracting Officer may require that the Contractor assist in the determination of the amount of restitution and withholding of funds from a subcontractor so that sufficient funds are withheld to provide restitution for back wages due for workers inappropriately classified and paid, fringe benefits owed, overtime payments due, and liquidated damages assessed.

The Contractor shall notify the Contracting Officer of any complaints and significant labor standards violations whether caused by the Contractor or subcontractors. The Contractor shall assist DOE and or/the Department of Labor in the investigation of any alleged violations or disputes involving labor standards. The Contractor shall furnish a Davis-Bacon Semi-Annual Enforcement Report to DOE by April 21 and October 21 each year.

H.27 - CONTRACTOR-FUNDED INSTITUTIONAL SUPPORTING RESEARCH AND DEVELOPMENT

Contractor Supported Research (CSR) is research and development work conducted at Lawrence Berkeley National Laboratory supported with funding from the Contractor intended to assist the Laboratory in performing its mission for DOE or to create new

capabilities at the Laboratory consistent with the overall needs of DOE. CSR may include, but is not limited to, funds from the Berkeley Lab Foundation (BLF), the UC Fee, or other sources of UC funding.

In addition to and separate from the Parties' rights and obligations under Clause I.128, DEAR 970.5217-1, Strategic Partnership Projects Program (Non-DOE Funded Work) (PREV. I.134), the Contractor may, with the approval of the Contracting Officer, conduct CSR at the Laboratory at an annual amount of not more than 2 percent of the total DOE funds received or such higher level as determined by mutual agreement between the Laboratory Director and the Head of Field Element. All proposed CSR will be reviewed and approved by the DOE Contracting Officer based on the following criteria:

- (a) all funds received pursuant to this Clause will comply with applicable safeguards and procedural requirements issued by the DOE Site Office Contracting Officer,
- (b) such research is conducted on a non-interference basis with any DOE-directed and funded work of the Laboratory,
- (c) the research is intended to enhance the capabilities of the Laboratory to continue to perform its mission or to create new capabilities at the Laboratory consistent with the overall needs of DOE,
- (d) the funds are expended under the same terms and conditions that apply to government funds provided under this contract,
- (e) the Laboratory will not use its access to the Laboratory facilities under this program to compete with the private sector,
- (f) the Laboratory will not use any funds pursuant to this program to augment any federally funded research,
- (g) the Laboratory will not pursue any projects under this program that include facilities or equipment that would create more than a nominal future burden on DOE resources to maintain and/or operate, and
- (h) the Laboratory will ensure that the projects under this program are not Strategic Partnership Projects subject to clause I.128 (PREV. I.134).

The Contractor will report annually on the breakdown of sources of funding provided for these CSR activities. The report will be due to the DOE Contracting Officer 60 days after completion of the Fiscal Year. For cost accounting standards purposes such approved research shall be treated as institutional research and development of the Laboratory.

H.28 - RESERVED

H.29 - PERFORMANCE BASED MANAGEMENT AND OVERSIGHT

- (a) Performance-based management shall be the key enabling mechanism for establishing the DOE-Contractor expectations on oversight and accountability. DOE expectations (outside of individual program performance and requirements of laws and regulations) and performance targets shall be established through the Performance Evaluation and Measurement Plan (PEMP) pursuant to the clause entitled "Standards of Contractor Performance Evaluation". This PEMP shall establish the expected strategic results in the areas of mission accomplishment, stewardship and operational excellence. Mission performance goals shall be established by agreement with each major customer of the Laboratory, and customer evaluation will be the primary means of evaluating mission performance. Stewardship and operational goals shall be established by agreement with DOE. Contractor self-assessment, third party certification, and Contractor and DOE independent oversight, as appropriate, shall be the primary means for assessing stewardship and operational performance. Routine DOE oversight of Contractor performance will be conducted at the systems level.
- (b) The performance-based management system shall be the primary vehicle for addressing issues associated with performance expectations. In the event of a substantive performance shortfall in any area, the appropriate improvement expectations and targets will be incorporated into the PEMP and tracked through self-assessment and independent oversight, as appropriate.
- (c) Compliance with applicable Federal, State and local laws and regulations, and permits and licenses, shall be primarily determined by the cognizant regulatory agency and DOE will primarily rely upon the determination of the external regulators in assessing Contract compliance. DOE oversight will be achieved through periodic assessments at the management system level, including review of Contractor self-assessments and assessments by independent third parties.

H.30 - CONTRACTOR ASSURANCE SYSTEM (SEP 2017)

- (a) The Contractor shall develop a contractor assurance system that is executed by the Contractor's Board of Directors (or equivalent corporate oversight entity) and implemented throughout the Contractor's organization. This system provides reasonable assurance that the objectives of the contractor management systems are being accomplished and that the systems and controls will be effective and efficient. The contractor assurance system, at a minimum, shall include the following key attributes:
 - (1) A comprehensive description of the assurance system with processes, key activities, and accountabilities clearly identified.

- (2) A method for verifying/ensuring effective assurance system processes. Third party audits, peer reviews, independent assessments, and external certification (such as VPP and ISO 9001 or ISO 14001) may be used.
- (3) Timely notification to the Contracting Officer of significant assurance system changes prior to the changes.
- (4) Rigorous, risk-based, credible self-assessments, and feedback and improvement activities, including utilization of nationally recognized experts, and other independent reviews to assess and improve the Contractor's work process and to carry out independent risk and vulnerability studies.
- (5) Identification and correction of negative performance/compliance trends before they become significant issues.
- (6) Integration of the assurance system with other management systems including Integrated Safety Management.
- (7) Metrics and targets to assess performance, including benchmarking of key functional areas with other DOE contractors, industry and research institutions. Assure development of metrics and targets that result in efficient and cost effective performance.
- (8) Continuous feedback and performance improvement.
- (9) An implementation plan (if needed) that considers and mitigates risks.
- (10) Timely and appropriate communication to the Contracting Officer, including electronic access, of assurance related information.

The initial contractor assurance system description shall be approved by the Contracting Officer.

- (b) The Government may revise its level and/or mix of oversight of this contract when the Contracting Officer determines that the assurance system is or is not operating effectively.

H.31 - RESERVED

H.32 - LOBBYING RESTRICTION (CONSOLIDATED APPROPRIATIONS ACT SECTION 501) (AL-2019-02)

The Contractor agrees that none of the funds obligated on this award shall be expended, directly or indirectly, to influence congressional action on any legislation or appropriation matters pending before Congress, other than to communicate to Members of Congress as described in 18 U.S.C. § 1913. This restriction is in addition to those prescribed elsewhere in statute and regulation.

H.33 - DEFINITION OF UNUSUALLY HAZARDOUS OR NUCLEAR RISK FOR FAR CLAUSE 52.250-1 INDEMNIFICATION UNDER PUBLIC LAW 85-804

- (a) The term "a risk defined in this contract as unusually hazardous or nuclear" as used in FAR Clause 52.250-1 means the risk of legal liability to third parties (including legal costs as defined in paragraph jj. of Section 11 of the Atomic Energy Act of 1954, as amended, 42 U.S.C. Section 2014jj., notwithstanding the fact that the claim or suit may not arise under section 170 of said Act) arising from actions or inactions in the course of the following performed by the Contractor under this contract:
 - (1) Participation in tasks or activities by the Contractor or its subcontractors on or after March 13, 2020 through June 30, 2020 that is directed or authorized by the U.S. Department of Energy or the U.S. Department of Energy National Nuclear Security Administration, including work for others, as an element of activities taken now and through June 30, 2020 in response to COVID-19, including but not limited to efforts to test for the presence of COVID-19, to provide equipment and resources to address COVID-19, and to develop treatments and vaccines for COVID-19, to the extent the task or activity is not exempt from liability under the Public Readiness and Emergency Preparedness Act (PREP Act) or other law, or the exemption under the PREP Act or other law is limited in scope or amount which is not sufficient to provide complete protection against the liability to which the contractor is exposed.
- (b) The unusually hazardous or nuclear risks described above are indemnified only to the extent that they are not covered by the Price-Anderson Act (section 170d. of the Atomic Energy Act of 1954, as amended, (42 U.S.C. Section 2210d.) or where the indemnification provided by the Price-Anderson Act is limited by the restriction on public liability imposed by section 170e. of the Atomic Energy Act of 1954, as amended, (42 U.S.C. Section 2210e.) to an amount which is not sufficient to provide complete indemnification for the legal liability to which the contractor is exposed.

H.34 - EPIDEMIOLOGICAL STUDIES OF WORKERS AT THE SITE

- (a) The Contractor shall cooperate in the conduct of epidemiological studies of workers at the contract site to include health related programs and projects, or public health activities required by law, performed by personnel, Contractor personnel, grantees and cooperative agreement participants of the Department of Health and Human Services (HHS), pursuant to a Memorandum of Understanding between DOE and HHS, or those performed by the DOE Office of Environment, Safety and Health, its Contractors, grantees, participants in cooperative agreements, and collaborating researchers. The conduct of these studies requires access by researchers to personal information about workers including historical and current data on work assignments and duties, medical history, and exposure to radiation, toxins, and other occupational hazards.

Access to Contractor-owned records containing personal information is governed by the Section I clause entitled, "Access to and Ownership of Records". The studies may also require access by researchers to workers for personal interviews during normal work hours. The Contractor understands that its cooperation in such studies is an integral part of addressing the health and safety of workers at the site and that it may be reimbursed for reasonable costs associated with assisting the various agencies. The Contractor shall identify a point of contact for coordinating this work and for assuring that responses are timely, and shall submit to the Contracting Officer for approval procedures for liaison with external researchers carrying out such work.

- (b) Nothing in this clause shall relieve personnel performing epidemiological studies at the site from observing applicable federal and state laws, regulations and directives governing the conduct of human subjects research, access to classified information, and the privacy of personal information; and it is acknowledged that the Contractor, as the custodian and/or owner of records maintained at the site, has certain contractual and other legal obligations to ensure compliance with such laws, regulations and directives.

H.35 - WORKER HEALTH AND SAFETY

The Contractor must follow the variance to 10 CFR part 851, Worker Safety and Health Program, approved by DOE in August of 2019. The approved variance allows the Contractor to follow applicable California Department of Labor Codes such as California Occupational Safety and Health Administration's (Cal-OSHA) safety and health regulations in Title 8, including an Injury and Illness Prevention Program (IIPP), in lieu of specified provisions in 10 CFR part 851, Subparts B and C, and Appendix A. DOE retains enforcement authority per 10 CFR part 851, subpart A. The contractor shall incorporate the substance of this clause in subcontracts, at any tier, that have responsibilities for performing on-site work.

H.36 - SPECIAL HAZARDS

- (a) The performance of the Contractor's operations hereunder may, in extraordinary circumstances, subject workers to special hazards for which workers' compensation laws, other statutes, the Contractor's welfare plan and policies, or the worker's private insurance may not provide adequate financial protection to the worker in the event of disability, or to the worker's estate in the event of death.
- (b) Definitions.
 - (1) Worker as used in this clause shall mean any person who is or has been employed by the Contractor or any subcontractor, or who is or has been engaged as a consultant or borrowed personnel by the Contractor or any subcontractor.
 - (2) Within the course and scope of employment as used in this clause shall mean that the worker was performing duties as assigned, in conformance with the direction of the Contractor or a subcontractor or an agreement with the Contractor, and in furtherance of the work under this contract.
- (c) The Contractor is authorized to pay to a worker, or in the event of the worker's death, the worker's estate, a sum in an amount which the Contractor determines appropriate, not to exceed the worker's annual salary, whenever—
 - (1) The Contractor believes that a worker has become disabled or has died as a result of any special hazard listed in paragraph (d) below to which the worker has been exposed within the course and scope of employment;
 - (2) The Contractor believes that Workers' compensation laws, other statutes, the Contractor's welfare plan and policies, or the worker's private insurance does not provide adequate financial protection under the particular circumstances of the worker's disability or death; and
 - (3) The Contracting Officer approves the payment.
- (d) The special hazards referred to in paragraphs (a) and (c) above are:
 - (1) Exposure to radiant energy or emitted particles from radioactive materials or from high voltage sources or machines, including ingestion, inhalation or other bodily uptake of radioactive materials.
 - (2) Exposure to toxic materials comprising polonium, uranium, plutonium, fluorine, barium, cadmium, beryllium, any compounds of these, phosgene,

or any other material in use in the course of authorized work which may be shown to have toxic effects.

- (3) Work assignments not specifically covered in this clause and of such a nature as will invalidate the worker's personal insurance otherwise applicable to the injury or death and in effect at the time of performance of the assigned duties.
 - (4) Exposure to hazards incident to flights in military aircraft in the course of which necessary experimental work is conducted. Where a release of liability has been signed, such release will in no way bar the worker from receiving any payment under this clause.
 - (5) Exposure in the course of employment incident to flights in chartered or military aircraft or transportation on military vessels. Where a release of liability has been signed, such release will in no way bar the worker from receiving any payment under this clause.
 - (6) Exposure peculiar to and as the result of work assignment required to be conducted outside the continental United States.
 - (7) Such other exposures not now known but which may later be discovered and which by the nature thereof are similar to the exposure or hazards set forth above. Such other exposures as may from time to time be agreed upon in writing by the Contractor and the Contracting Officer as a basis for payment.
- (e) The total sum authorized to be paid under this clause to a worker or a worker's estate shall not exceed the worker's annual salary even where (1) a payment has been made to a worker on account of a disability and who thereafter dies as a result of the disabling injury or (2) a worker is disabled by one injury compensable under this clause and dies of a separate injury compensable under this clause. The Contractor assumes no obligation hereunder to make any payment from the Contractor's own funds. A release may be required from the payee if the Contracting Officer and the Contractor deem it necessary or appropriate.
- (f) Whenever there is an injury or death which is compensable in accordance with paragraph (c) above, the Contractor may also, with Contracting Officer approval, pay for the cost of transportation (including hotel, subsistence and other incidental expenses) of the spouse and one or more of next of kin of such injured or dead worker from their respective homes to the place where such injured or dead worker shall be situated and their return.

H.37 - DEFENSE AND INDEMNIFICATION OF EMPLOYEES

- (a) The Parties recognize that, under applicable State law, the Contractor could be required to defend and indemnify its officers and employees from and against civil actions and other claims which arise out of the performance of work under this Contract. Except for defense costs made unallowable by Section I clause entitled Payments and Advances, or the Major Fraud Act (41 U.S.C. §256(k)), the costs and expenses, including judgments, resulting from the defense and indemnification of employees from and against such civil actions and claims shall be allowable costs under this contract if incurred pursuant to the terms of Section I clause entitled Insurance—Litigation and Claims.
- (b) Costs and expenses, including judgments, resulting from the defense and indemnification of employees from civil fraud actions filed in federal court by the Government will be unallowable where the employee pleads nolo contendere or the action results in a judgment against the defendant.
- (c) Where in accordance with applicable State law, the Contractor determines it must defend an employee in a criminal action, DOE will consider in good faith, on a case-by-case basis, whether the Contractor has such an obligation. If DOE concurs, the costs and expenses, including judgments, resulting from the defense and indemnification of employees shall be allowable.
- (d) The Contractor shall immediately furnish the Contracting Officer written notice of any such claim or civil action filed against any employee of the Contractor arising out of the work under this contract together with copies of all pleadings filed. The Contractor shall furnish to the Contracting Officer a written determination by the Contractor's counsel that the defense or indemnity of the employee is required by the provisions of applicable State law, that the employee was acting within the course and scope of employment at the time of the acts or omissions which gave rise to the claim or civil action, and that any exclusions set forth under applicable State law for fraud, corruption, or malice on the part of the employee does not apply. A copy of any letter asserting a reservation of rights under applicable State law with respect to the defense or indemnification of such employee shall also be provided to the Contracting Officer. The costs associated with the settlement of any such claim or civil action shall not be treated as an allowable cost unless approved in writing by the Contracting Officer.

H.38 - REAL PROPERTY ASSET MANAGEMENT

- (a) The Contractor shall comply with Departmental requirements and guidance involving the acquisition, management, maintenance, disposition, or disposal of real property assets to ensure that real property assets are available, utilized, and in a suitable condition to accomplish DOE's missions in a safe, secure, sustainable, and cost- effective manner. Contractors shall meet these functional

requirements through tailoring of their business processes and management practices, and use of standard industry practices and standards as applicable. The contractor shall flow down these requirements to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

(b) Contractor shall:

- (1) Submit all real estate actions to acquire, utilize, and dispose of real property assets to DOE for review and approval and maintain complete and current real estate records.
- (2) Perform physical condition and functional utilization assessments on each real property assets at least once every five-year period or at another risk-based interval as approved by SC-1 based on industry leading practices, voluntary consensus standards, and customary commercial practices.
- (3) Establish a maintenance management program including: a computerized maintenance management system (CMMS); a condition assessment system; a master equipment list; maintenance service levels; a method to determine for each asset the minimum acceptable level of condition; methods for categorizing deficiencies as either deferred maintenance and repair (DM) or repair needs; management of the DM backlog; a method to prioritize maintenance work; and a mechanism to track direct and indirect funded expenditures for maintenance, repair, and renovation at the asset level.
- (4) Maintain Facilities Information Management System (FIMS) data and records for all lands, buildings, trailers, and other structures and facilities. FIMS data must be current and verified annually.

H.39 - RESERVED

H.40 - RESERVED

H.40A - LEASE AND OCCUPANCY BY DOE OF REAL PROPERTY OR FACILITIES OWNED BY THE CONTRACTOR

- (a) Campus building space and equipment. The Contractor shall provide building space and equipment as set forth in Section J, Appendix D - LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS, SPACE AND EQUIPMENT.

- (b) Disposition of premises altered or constructed.
- (1) The Contractor and DOE have developed mutually satisfactory arrangements for the lease and occupancy of real property of the Contractor upon which structures and other improvements financed by the Government may be constructed or altered. These lease and occupancy agreements are identified in Section J, Appendix D to this contract. These arrangements also cover the disposition of such structures and improvements. The basic terms and conditions applicable to arrangements for property of the Contractor known as the Wilson Tract, Plots "O" and "M" and the regular Contractor campus (herein deemed to include the Bailey Tract and two sections of state Contractor Tract) are set forth in Section J, Appendix D. It is understood that, except as provided in Section J, Appendix D, DOE shall have no obligation to restore the premises with respect to such structures and improvements.
 - (2) It is understood that with respect to construction and alterations financed by the Government to Contractor owned buildings and structures under this contract, the Contractor, after termination or by mutual agreement at any time prior thereto, shall elect whether (i) to retain the benefit of such construction or alteration, in which case the Contractor shall return to or credit the Government with the portion of the reimbursement by the Government for its expenditures therefore determined by negotiation between the Contractor and DOE to be fair and proper, or (ii) to have such premises restored to substantially the same condition as prior to such alteration or construction, in which case the Contractor shall retain all such reimbursement and the Government shall pay the net cost of such restoration; provided that as to any such alteration or construction commenced after October 1, 1962, the Government shall be under no obligation to restore or bear costs of restoration except as otherwise agreed upon.
- (c) Responsibility for environmental restoration and remedial work. Upon termination or expiration of this contract or any lease or occupancy agreements identified in Section J, Appendix D, DOE shall be responsible for complying with applicable laws, regulations, and DOE directives requiring investigation, monitoring, cleanup, containment, restoration, removal, or other remedial activity with respect to any hazardous substances present in the soil, ground water, or buildings as a result of activities conducted during the term of this contract or any prior contract modifications or during the term of any said lease or occupancy agreements.

H.41 - PENSION PLAN

- (a) The following stipulations apply, as appropriate, only to the University of California Retirement Plan (UCRP), "DC Supplemental Benefit" and "DC Plan

Benefit” (as such DC plans are defined in the minutes of the Board of Regents, dated March 24, 2016), which covers University of California employees working under contracts at DOE-owned and Contractor-operated facilities. UC offers its employees three plans as follows: UCRP and DC Supplemental and DC Plan Benefit plans, collectively referred to as the “Pension Plans.”

(b) Basic requirements.

- (1) DOE shall be notified prospectively of each change to the Pension Plans that could have a significant impact on current or future Departmental funding or liabilities; including either:
 - (i) Any change to a benefit, right or feature of a Pension Plan or any change to a funding method or assumption, or
 - (ii) Any change that requires the approval of the Regents of the University of California.
- (2) Prospective notice will be provided to the DOE for each newly adopted Pension Plan change requiring prospective notice as described in subparagraph (b)(1)(i) or (ii) above, including any changes to non-DOE-reimbursed segments of commingled pension plans.
- (3) For purposes of this clause, prospective notice shall mean written notice, including a copy of the proposed change, at least thirty (30) days in advance of approval of each change to the Pension Plans by the Regents of the University as trustees of the Pension Plan.
- (4) The Pension Plans shall be subjected to a limited-scope audit annually that is no less comprehensive than the limited scope audit set forth in ERISA Section 103. The UCRP shall be submitted to a full-scope audit by an outside independent auditor every three years. The Contractor shall provide audit reports to DOE within nine months after the last day of the current plan year to which the audit applies.
- (5) The Contractor shall maintain a separate annual accounting of UCRP liabilities and assets attributable to the Laboratory. Market value of assets on an accrual basis at the beginning of a plan year shall equal the assets at market value on an accrual basis at the end of the prior year based on the separate annual accounting of the prior plan year. The procedures for annual accounting of contributions for each plan year (July 1 through June 30) are that the Contractor will provide an annual accounting of assets associated with DOE-funded employer contributions and employee contributions under Contract No. DE-AC02-05CH11231, as follows:
 - (i) Market value of assets at the beginning of a plan year for UCRP;

- (ii) (A) Employer contributions made during a plan year, less the employer contributions transferred to the Social Security Administration on behalf of contract employee members of UCRP who elected Social Security coverage in 1976 or 1977 with any employer contribution toward the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit separately identified; and
 - (B) Employee contributions made during a plan year, less the employee contributions transferred to the Social Security Administration on behalf of contract employee members of UCRP who elected Social Security coverage in 1976 or 1977.
- (iii) The dollar amount of investment income from applying the rate of return on the accrual-basis market value of UCRP assets to subparagraphs (b)(5)(i), (ii), (iv) and (v);
- (iv) Benefits disbursed on account of Contract employees during the UCRP plan year, including return of accumulated employee contributions;
- (v) UCRP administrative expenses paid from the trust shall be allocated to the Laboratory in the same proportion that the market value of assets assigned to the Laboratory segment bears to the market value of the total asset fund as of the beginning of the plan year. However, there may be situations agreed to by the DOE where specific expenses would directly be charged to the Laboratory in addition to the proportionate share of expenses; and
- (vi) $\text{UCRP market value of assets at the end of the plan year} = (b)(5)(i) + (ii) + (iii) - (iv) - (v)$. The annual accounting shall include the market value of such assets as of June 30, 1991, and as of the end of each plan year thereafter.
- (vii) The annual accounting shall include the following for the DC Supplemental Benefit and the DC Plan Benefit:
 - (A) Employer contributions made to fund the DC Supplemental Benefit.
 - (B) Employer contribution made to fund the DC Plan Benefit.

- (C) Dollar amount of investment income/earnings from the DC Supplemental Benefit and dollar amount of investment income/earnings from the DC Plan Benefit.
 - (D) Administrative expenses, if any.
- (6) Contract Service means work performed within the scope of work under this contract or predecessor contract.
- (7) Contract service assets means the accrual basis market value given by the accounting which is referred to in subparagraph (b)(5).
- (8) Disaffiliation means the cessation of the contractual relationship between the Contractor and the Department of Energy with respect to LBNL.
- (9) All plan provisions of the Pension Plans are applicable to all eligible employees of the Contractor, including those employed at the Laboratory, except as noted below. For partial Plan Years 2016 (10/1/2015-6/30/2016) and full Plan Years 2017 through 2020 (7/1/2016-6/30/2020), the employer contribution rate for the LBNL Segment of UCRP (also referenced in this Clause as the "DOE Segment" or the "Laboratory Segment"), which forms the basis (as described below) for the additional employer contributions toward the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit, is calculated as set forth in the minutes of the Board of Regents, dated September 17, 2015. If the funded ratio of the LBNL Segment for any Plan Year during this five-year period does not exceed the corresponding funded ratio of the Campus and Medical Centers of UCRP, the LBNL Segment employer contribution rate, including the additional employer contributions to the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit, will revert to the respective Campus and Medical Centers Segment employer contribution rates applicable to that Plan Year. For purposes of assessing the liabilities of the DOE Segment of the UCRP as described in paragraphs (e), (f), and (g), the DOE will have no liabilities to the Plan beyond that associated with Laboratory employees who are members of the Plan for work under this contract.
- (10) The additional employer contribution associated with the DC Plan Benefit is the rate that is determined by subtracting the employer contribution rate for the "DC Plan Benefit" (which is the same for all employees) from the LBNL employer contribution rate for the DOE or Laboratory Segment as calculated above. This additional employer contribution goes toward the DOE/Laboratory segment's UCRP unfunded liability and only applies if the segment has such an unfunded actuarial accrued liability, based on actuarial value of assets as of the valuation date in which the segment UCRP employer contribution rate was determined.

- (11) Employer contributions on behalf of members in the UCRP 2016 Tier are subject to a Covered Compensation limit consistent with the limit established annually in accordance with the Public Employees' Pension Reform Act of 2013 (PEPRA), as referenced in the minutes of the Board of Regents, dated March 24, 2016 <http://regents.universityofcalifornia.edu/minutes-index/index.html>.
 - (12) The DOE will be given prospective notice of any changes in administration costs of five percent or more, and the reason for any such changes. Changes in administration costs resulting directly from normal inflation in administration costs or per specific DOE requests do not require notice.
 - (13) If and when the UCRP funded status (measured by dividing the actuarial value of assets by the entry age liability of UCRP), reaches 150 percent, the President of the University will initiate a review of the surplus situation and provide to DOE a copy of the Contractor's recommendations to bring the fund into conformity with the long-term needs of the Plan. Any recommendations by the Contractor for the disposition of the Plan assets in connection with a Plan termination or spin-off will be consistent with the then applicable federal and state laws relating to qualified pension plans and ensure equitable distribution of excess Plan assets to DOE and the University-reimbursed Plan segments as provided in this clause.
 - (14) The DOE will pay costs for any special retirement and/or actuarial analysis that it requests during the period of the contract.
 - (15) DOE has the right to take any action it deems appropriate and consistent with applicable law with reference to the pension plan.
 - (16) The Contractor shall provide notice to the Contracting Officer of UCRP participants transferring from non-LBNL operations to LBNL operations, and vice-versa, on a quarterly basis with such information and as directed by the Contracting Officer.
- (c) Funding requirements.
- (1) Contributions to the UCRP will be based on the actuarial valuation for the Plan and will be approved by the Contractor's Plan Trustees (The Regents of the University of California).
 - (2) DOE agrees to continue to fund for the Contract term(s), as extended, the employer cost of the Pension Plans for Contract employees at contribution rates established from time to time by the Contractor in accordance with (b)(9), above, subject to the following restriction: The DOE funded

contribution to UCRP shall not exceed the full funding limit as defined in the Internal Revenue Code, Section 431.

- (3) The DOE funding policy is intended to be congruent with the basic objectives of the cost accounting standards (CAS) and will generally result in funding consistent with the CAS. If this policy causes a temporary, technical inconsistency with the CAS, the Contractor shall immediately notify the cognizant Contracting Officer and CH's Chief Financial Officer.

Contractors have recourse to the cost principles found at FAR 31.203, 31.205-6, and 31.205-10 and shall avoid penalties on that basis.

- (4) If members of the Laboratory managed by the Contractor for DOE transfer from the Contractor's private operations to the Laboratory, or vice versa, appropriate annual adjustments shall be made to the UCRP pension fund or segments' assets and liabilities.
- (d) Reporting requirements for designated contracts. The following reports shall be submitted within nine months of the last day of the current plan year to DOE for the Laboratory.

- (1) Any annual actuarial valuation report which includes information in the annual separate actuarial valuations for the Laboratory managed by the Contractor for DOE which DOE may reasonably request. DOE shall pay the cost of all separate valuations. At a minimum, these reports for UCRP shall include: an itemized cashflow; the aggregate covered compensation; a distribution of active members by age, service, and salary; separate amount, and time expired since retirement or separation; a brief description of each amortization base, if any, and its date, original amount, and annual payment; an itemization of the changes in the numbers of actives, retirees and terminated vested members during the plan year; the rate of interest currently credited to employee contributions; a statement of the Accounting Standard Codification (ASC) 960 liabilities; a statement of the current liability under Internal Revenue Code Section 431; a development of the total actuarial gain or loss; a statement of actuarial assumptions and methods; calculation of the assets of each Laboratory; calculation of the actuarial asset value; calculation of contribution requirements; and a statement of the changes, if any, in benefits, assumptions or methods since the last report.
- (2) A copy of the Financial Accounting Standards Board Statement ASC 715 report prepared each year for the UCRP to satisfy the expense-reporting requirement of the Office of Management and Budget.
- (3) In order to report the funded status (surplus or deficit) of the Laboratory's portion of UCRP to the DOE, the Contractor will measure the liabilities

using the Entry Age Normal actuarial method and the Actuarial Value of Assets as defined in the valuation report indicated in subparagraph (d)(1) above.

- (4) Forms 5300. Copies of all forms in the 5300 series submitted to the IRS that document the establishment, amendment, termination, spin-off, or merger of a plan submitted to the IRS.
 - (5) Copy of Private Letter Ruling, if any, related to permission for a participant with a DC Plan Benefit to elect to change to the UCRP 2016 Tier at a later date.
- (e) Terminating operations. When operations at a DOE Laboratory are terminated and no further work is to occur under this contract, the following rules shall apply:
- (1) No further benefits for service shall accrue after the Contract termination date, or such earlier date as agreed to by the DOE and the Contractor.
 - (2) The Contractor shall return the DOE portion of the UCRP assets [as defined herein below] by means of a (1) spin-off and termination of the spun-off plan and reversion pursuant to IRC Section 414(l) and ERISA Section 4044, (2) spin off and plan merger pursuant to IRC 414(l), or (3) otherwise transferred at DOE's direction at DOE's sole discretion subject to applicable law. In the case of (2) above, the merger shall be a merger of all DOE assets and all DOE liabilities with another DOE Contractor's DOE-site pension plan.
 - (3) Procedures with respect to the spin-off and reversion.
 - (i) For purposes of spin-off, all Contract Service active liabilities for the Laboratory's UCRP members and all Contract Service inactive liabilities for the Laboratory's UCRP members shall be valued using the UCRP plan provisions, actuarial assumptions, and actuarial cost methods that were used to prepare that UCRP actuarial off and Contract Service to date of spin-off. For purposes of this subparagraph (e)(3), the aforementioned valuation of the Contract Service inactive liabilities shall be known as "B". The UCRP shall retain full and exclusive responsibility for the Contract Service inactive liabilities. For this purpose, "inactive" shall refer to those vested UCRP members who have earned Contract Service and who do not become participants in the spun-off plan.
 - (ii) Assets transferring to the plan that is spun off shall equal A-B for which A is the value of assets on the effective date of spin-off that is provided by the formula in subparagraph (b)(5) and B is as defined in subparagraph (e)(3)(i), above. Any delay in transfer of assets

shall augment the amount A-B by interest on that amount in accordance with the clause of this contract entitled "Interest", as of the effective date of spin-off. The sponsor of the spun-off plan shall have full and exclusive responsibility for the Contract Service active liabilities.

- (iii) The Parties agree that any disposition of Contract Service assets or transfer of liabilities upon a spin-off shall be consistent with the then applicable federal and state laws relating to qualified pension plans and shall be subject to obtaining such rulings and/or approvals from cognizant federal and state agencies as may be required by law or deemed prudent by the Contractor or DOE.
 - (A) When a Spin-off Plan has been established, UCRP shall retain the liabilities associated with pensioners, members receiving UCRP disability income, terminated vested participants, survivors, contract employees who are retained by the Contractor, and anyone else who is not an active employee under the Spin-off Plan.
 - (B) Under a Spin-off Plan acceptable to the DOE in its sole discretion and which fulfills all of the Contractor's fiduciary responsibilities under applicable law, and which further assumes UCRP liabilities for transferred contract employees, the Contractor agrees to transfer to the trustees of the Spin-off Plan an amount equal to the Contract service assets to be transferred as determined above. Such amount shall be transferred as investment holdings of the UCRP, plus any necessary United States Currency, or, by mutual agreement of the Parties, the total amount may be transferred as United States Currency. Agreement by the DOE and Contractor will not be unreasonably withheld.
 - 1. If the asset transfer to the Spin-off Plan is made in the form of investment holdings, such holdings shall include cash, equity securities, and fixed income securities, but shall exclude any investment holding (and earnings thereon) acquired from the effective date of the spin-off. Such assets shall be allocated on a pro-rated basis, with proration for fixed income assets based on rating and sector classification. The pro-rata allocation shall be the ratio of (A) to (B) where, (A) is the Contract service assets referred to in subparagraph (e)(3)(ii) above; and (B) is the total assets of the Retirement Fund of UCRP at market value as of the effective date of disaffiliation. If

transfer of assets cannot be accomplished on the effective date of disaffiliation, assets shall be converted on that date to U.S. Currency and interest shall be credited on those assets as provided in subparagraph (e)(3)(ii) above.

2. The Contractor will transfer assets at a rate at least sufficient to meet the cashflow requirement of transferred employees who go into benefit status under the Spin-off Plan.

- (iv) Subsequent to a termination of the Spin-off Plan, the Contractor shall return the remaining assets (less any tax or other liabilities imposed upon the Contractor because of the receipt of such assets) to DOE.

The Contractor shall not terminate any DOE-reimbursed benefit plan without the DOE's approval. It is the intention of the DOE not to entertain any enhancements in these programs after the Contractor announces the intention not to renew the contract.

- (v) If operations at the DOE Laboratory are terminated and no further work is to occur under the Contract, similar rules will apply to the DC Plan Benefit and DC Supplemental Benefit of the affected employees and assets associated with such benefits, including any associated employee contributions will be transferred to a qualified plan of a successor contractor.

- (f) Contract termination and selection of a successor contractor. Should another contractor, including any contractual entity that includes the University of California, replace the Contractor, the following become requirements for UCRP:

- (1) Liabilities for present and future benefits of Contract employees in the event there is a successor plan. The liabilities as of the effective date of disaffiliation for members shall be calculated by using the UCRP provisions, actuarial assumptions, and actuarial cost methods as then in effect. Only persons employed by the successor contractor shall be covered by the successor pension plan.

- (2) Contract service assets in the event there is a successor pension plan.

- (i) For purposes of disaffiliation as used in subparagraphs (e) and (f) herein, all Contract Service active liabilities for the Laboratory's UCRP members and all Contract Service inactive liabilities for the Laboratory's UCRP members shall be valued using the UCRP plan provisions, actuarial assumptions, and actuarial cost methods that were used to prepare that UCRP actuarial valuation which is most

recent as of the effective date of disaffiliation and Contract Service to date of disaffiliation. For purposes of subparagraph (f)(2), the aforementioned valuation of the Contract Service inactive liabilities shall be known as B. The UCRP shall retain full and exclusive responsibility for the Contract Service inactive liabilities. For purposes of subparagraph (f)(2), "inactive" shall refer to those vested UCRP members who have earned Contract Service and who do not become participants in a plan sponsored by the successor Contractor.

- (ii) Assets transferring to the plan that is spun off shall equal $A-B$ for which A is the value of assets on the date of disaffiliation that is provided by the formula in subparagraph (b)(5) and B is as defined in subparagraph (f)(2)(i), above. Any delay in transfer of assets shall augment the amount $A-B$ by interest on that amount in accordance with the clause of this contract entitled "Interest", as of the effective date of disaffiliation. The successor Contractor shall have full and exclusive responsibility for the Contract Service active liabilities.
 - (iii) Notwithstanding the provisions of this paragraph (f), the Parties further agree to consider the desirability of covering pensioners, survivors, UCRP disability recipients, and terminated vested and nonvested members under a successor plan.
 - (iv) The DC Plan Benefit and DC Supplemental Benefit including any associated employee contributions will be transferred to a qualified plan of the successor contractor at the same time in order to maintain continuity of benefit structures.
- (3) Disposition of contract service assets and liabilities. The Parties agree that any disposition of contract service assets or transfer of liabilities upon Contract termination shall be consistent with the then applicable federal and state laws relating to qualified pension plans and shall be subject to obtaining such rulings and/or approvals from cognizant Federal and State agencies as may be required by law or deemed prudent by the Contractor or DOE.
 - (i) Retention of assets and liabilities. When a successor pension plan has been established by a successor Contractor, UCRP shall retain the liabilities associated with pensioners, survivors, UCRP disability recipients, and terminated vested and nonvested members and active members who are retained by the Contractor as determined in subparagraph (f)(1) above.

(ii) Transfer of assets and liabilities to successor pension plan. Under a successor pension plan acceptable to the DOE and which fulfills all of the Contractor's fiduciary responsibilities under applicable law, and which further assumes UCRP liabilities for transferred Contract employees, the Contractor agrees to transfer to the trustees of such successor plan an amount equal to the contract service assets as determined in subparagraph (f)(2) above. Such amount shall be transferred as investment holdings of the UCRP, plus any necessary United States Currency, or, by mutual agreement of the Parties, the total amount may be transferred as United States Currency. Agreement by the DOE and Contractor will not be unreasonably withheld.

(A) If the asset transfer to the successor Contractor's trust is made in the form of investment holdings, such holdings shall include cash, equity securities and fixed income securities, but shall exclude investment holdings (and earnings thereon) acquired after the effective date of disaffiliation. Such assets shall be allocated on a pro-rated basis, with proration for fixed income assets based on rating and sector classification. The pro-rata allocation shall be the ratio of (A) to (B) where, (A) is the contract service assets referred to in subparagraph (f)(2) above and (B) is the total assets of the Retirement Fund of UCRP at market value as of the effective date of disaffiliation. If transfer of assets cannot be accomplished on the effective date of disaffiliation, assets shall be converted on that date to U.S. Currency and interest then shall be credited on those assets as provided in (f)(2)(ii).

(B) The Contractor will transfer assets at a rate at least sufficient to meet the cashflow requirement of transferred employees who go into benefit status under the successor plan.

(C) If the transfer is made as United States Currency, the transfer shall be increased to include interest on the amount at the rate specified in the clause of this contract entitled "Interest".

(g) UCRP plan termination.

(1) In the unlikely event of termination of the entire UCRP, the Contractor shall not terminate any pension plan (commingled or site-specific) without notifying the Department at least 60 days prior to the scheduled date of plan termination, or if earlier, 60 days before plan members are notified of the plan termination.

- (2) The Contractor may satisfy plan liabilities to all plan members by the purchase of annuities through competitive bidding on the open annuity market or through the payment of lump sums. Any competitive annuity bid process must include at least five bidders, if possible, who satisfy the criteria listed in the United States Department of Labor Interpretive Bulletin 95-1. The final selection of insurance company(ies) shall be based upon a review of the bids of the qualifying companies, along with a prudent assessment of the quality of the annuity providers. The Contractor may also satisfy plan liabilities to plan members through lump sum distributions. Lump sum distributions shall be calculated in accordance with the terms of the UCRP.
- (3) Notwithstanding the provisions in subparagraph (g)(2), if the DOE has a dispute with the Contractor's selection of an annuity provider(s) or the assumptions or methods for determining the lump sum distributions, the DOE may negotiate with the Contractor an alternative that would resolve its concerns.
- (4) DOE-reimbursed assets which are in excess of the DOE liability shall revert to DOE with interest. Interest shall accrue from the effective date of plan termination at the rate specified in the clause of this contract entitled "Interest".

(h) Financial requirement.

- (1) Funds to be paid or transferred to any party as a result of settlements relating to pension plan termination under paragraph (g) above shall accrue interest from the effective date of termination until the date of payment or transfer.
- (2) Special programs. The Contractor shall advise DOE in advance of each early-out program, window benefit, disability program, plan-loan feature, employee contribution refund, asset reversion, or incidental benefit. Any UCRP retirement system programs proposal that is Laboratory specific and that would increase the cost of the Contract beyond that approved by the Contractor for Contractor employees, reduce plan surplus, or increase plan liabilities shall require advance approval by the Contracting Officer and the Contractor.

(i) Post-Contract Responsibilities for Pension and Benefit Plans.

If this contract expires or terminates without a follow-on contract, notwithstanding any other obligations and requirements concerning expiration or termination under any other clause of this contract, including but not limited to the clause of the contract entitled "Termination", the following actions shall occur:

- (1) The Contractor shall continue as plan sponsor of all existing and follow-on pension and welfare benefit plans covering site personnel with responsibility for management and administration of the plans, as directed by DOE, at DOE's sole discretion.
- (2) During the final 12 months of this contract if the parties have not reached agreement on these matters, the Contracting Officer shall provide written direction regarding the provision of post-contract pension and welfare benefits.
- (3) Notwithstanding termination for convenience or default, the contract may be extended as appropriate for purposes deemed necessary by the Contracting Officer, including, but not limited to, obligating funds to pay the Contractor for costs incurred for the Contractor's existing and, if applicable, follow-on, site pension and welfare benefit plans. Such costs shall continue to be allowable in accordance with applicable laws and regulations
- (4) DOE-approved pension and welfare plan contributions and plan administration costs, and pension plan asset management costs, will continue to be allowable and fully reimbursed under this contract, unless other arrangements have been approved by the Contracting Officer.

H.42 - RESERVED

H.43 - SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT

DOE shall make arrangements with the Contractor to execute a Special Financial Institution Account Agreement (Section J, Appendix C - SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT FOR USE WITH THE PAYMENTS CLEARED FINANCING ARRANGEMENT, to the Contract), in accordance with DOE requirements and provide said Agreement to the Contractor for its execution. Upon execution by the Contractor, said Agreement shall supersede the existing Section J, Appendix C attached to this Contract and shall be substituted therefore without any further action of the Parties.

H.44 - AGREEMENTS AND COMMITMENTS

- (a) The resources proposed by the Contractor and accepted by the Government are incorporated into the contract as set forth below:

None

The Contractor shall provide the above described resources in the amount, manner, and schedule as specified in Contractor's response to Provision L.8(d) of RFP No. DE-RP02-04CH11231. If the Contractor fails to provide any or all of these resources or to make progress toward providing these resources, the Government may exercise any of its rights and remedies under the contract, including those contained in the provision of the Section I clause entitled, "Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts, Alternate I."

- (b) Any costs incurred by the Contractor in providing any of these resources are expressly unallowable under the contract.

H.45 - RESERVED

H.46 - RESERVED

H.47 - RESERVED

H.48 - INFORMATION TECHNOLOGY ACQUISITIONS

Prior to use under this contract, all information technology acquisitions shall include the appropriate information technology security policies and requirements, including use of common security configurations available from the National Institute of Standards and Technology's website at <http://checklists.nist.gov> commensurate with the mission of the contract and conducive to the research and development efforts of the laboratory. This requirement shall be included in all subcontracts which are for information technology acquisitions; and the Laboratory CIO shall annually certify to the Contracting Officer that this requirement is being incorporated into information technology acquisitions.

H.49 - CONFERENCE MANAGEMENT

The Contractor agrees that:

- (a) The Contractor shall ensure that Contractor-sponsored conferences reflect the DOE's commitment to fiscal responsibility, appropriate stewardship of taxpayer funds and support the mission of DOE as well as other sponsors of work. In addition, the contractor will ensure conferences do not include any activities that create the appearance of taxpayer funds being used in a questionable manner.

(b) Determination of a Conference.

- 1) Definition. "Conference" is defined in the Federal Travel Regulation as, "[a] meeting, retreat, seminar, symposium, or event that involves attendee travel." The term 'conference' also applies to training activities that are considered to be conferences under 5 C.F.R 410.404. However, this definition is only a starting point.
- 2) Additional Indicia of Conferences. Conferences subject to this guidance are also often referred to by names other than "conference." Other common terms used include conventions, expositions, symposiums, seminars, workshops, or exhibitions. They typically involve topical matters of interest to, and the participation of, multiple agencies and/or nongovernmental participations. Indications of a formal conference often include but are not limited to registration, registration fees, a published substantive agenda, and scheduled speakers, or discussion panels. Individual events may qualify as conferences without meeting all of the indicia listed above, but will generally meet some of them. Please note that some training events may qualify as conferences for the purposes of this guidance, particularly if they take place in a hotel or conference center.
- 3) Local Conferences. Events within the local duty location that do not require advance travel authorization may also qualify as a conference for the purposes of this guidance if the event exhibits other key indicia of a conference, especially the payment of a registration, exhibitor, sponsor, or conference fee.
- 4) Exemptions. For the purposes of this guidance, the exemptions below apply and these types of activities should not be considered to be conferences even if the event meets the general definition of conference in section 1 above. Even where an event is considered exempt for this guidance, organizations are expected to continue to apply strict scrutiny to DOE's participation to ensure the best use of government funds and adherence with not only all applicable laws and policy, but the underlying spirit or principles, include ensuring that only personnel attend events that have a mission-essential need to do so, that expenses be kept to a minimum, and that participation in any associated social events be limited and restrained to the greatest degree practicable to avoid the appearance of impropriety. Exemptions from this guidance should be granted sparingly and only when events fully meet the definition and intent of the criteria below:
 - i) Meetings necessary to carry out statutory oversight functions. This exemption would include activities such as investigations, inspections, audits, or non-conference planning site visits.

- ii) Meetings to consider internal agency business matters held in Federal facilities. This exemption would include activities such as meetings that take place as part of an organization's regular course of business, do not exhibit indicia of a formal conference as outlined above, and take place in a Federal facility.
 - iii) Bi-lateral and multi-lateral international cooperation engagements that do not exhibit indicia of a formal conference as outlined above that are focused on diplomatic relations.
 - iv) Formal classroom training which does not exhibit indicia of a formal conference as outlined above.
 - v) Meetings such as Advisory Committee and Federal Advisory Committee meetings, Solicitation/Funding Opportunity Announcement Review Board meetings, peer review/objective review panel meetings, evaluation panel/board meetings, and program kick-off and review meetings (including those for grants and contracts).
- (c) Contractor-sponsored conferences include those events that meet the conference definition and either or both of the following:
- 1) The Contractor provides funding to plan, promote, or implement an event, except in instances where the Contractor:
 - i) covers participation costs in a conference for specified individuals (e.g., students, retirees, speakers, etc.) in a total amount not to exceed \$10,000 (by individual contractor for a specific conference); or
 - ii) purchases goods or services from the conference planners (e.g., attendee registration fees, renting booth space).
 - 2) The Contractor authorizes use of the official seal, or other seals/logos/ trademarks to promote a conference. Exceptions include non-M&O contractors who use their seal to promote a conference that is unrelated to their DOE contract(s) (e.g., if a DOE IT contractor were to host a general conference on cyber security).
- (d) Attending a conference, giving a speech or serving as an honorary chairperson does not connote sponsorship.
- (e) The Contractor will provide information on conferences they plan to sponsor with expected costs exceeding \$100,000 in the Department's Conference Management Tool, including:

- 1) Conference title, description, and date;
 - 2) Location and venue;
 - 3) Description of any unusual expenses (e.g., promotional items);
 - 4) Description of contracting procedures used (e.g., competition for space/support);
 - 5) Costs for space, food/beverages, audio visual, travel/per diem, registration costs, recovered costs (e.g., through exhibit fees); and
 - 6) Number of attendees.
- (f) The Contractor will not expend funds on the proposed Contractor-sponsored conferences with expenditures estimated to exceed \$100,000 until notified of approval by the Contracting Officer.
- (g) For DOE-sponsored conferences, the Contractor will not expend funds on the proposed conference until notified by the Contracting Officer.
- 1) DOE-sponsored conferences include events that meet the definition of a conference and where the Department provides funding to plan, promote, or implement the conference and/or authorizes use of the official DOE seal, or other seals/logos/ trademarks to promote a conference. Exceptions include instances where DOE:
 - i) covers participation costs in a conference for specified individuals (e.g., students, retirees, speakers, etc.) in a total amount not to exceed \$10,000 (by individual contractor for a specific conference); or
 - ii) purchases goods or services from the conference planners (e.g., attendee registration fees, renting booth space); or providing funding to the conference planners through Federal grants.
 - 2) Attending a conference, giving a speech, or serving as an honorary chairperson does not connote sponsorship.
 - 3) The Contractor will provide cost and attendance information on their participation in all DOE-sponsored conference in the DOE Conference Management Tool.
- h) For non-Contractor sponsored conferences, the Contractor shall develop and implement a process to ensure costs related to conferences are allowable,

allocable, reasonable, and further the mission of DOE. This process must at a minimum:

- 1) Track all conference expenses; and
 - 2) Require the Laboratory Director (or equivalent) or Chief Operating Officer approve a single conference with net costs to the contractor of \$100,000 or greater.
- i) Contractors are not required to enter information on non-sponsored conferences in DOE's Conference Management Tool.
 - j) Once funds have been expended on a non-sponsored conference, contractors may not authorize the use of their trademarks/logos for the conference, provide the conference planners with more than \$10,000 for specified individuals to participate in the conference, or provide any other sponsorship funding for the conference. If the Contractor does so, its expenditures for the conference may be deemed unallowable.

H.50 - RISK MANAGEMENT AND INSURANCE PROGRAMS (DEC 2014)

Contractor officials shall ensure that the requirements set forth below are applied in the establishment and administration of DOE-funded prime cost reimbursement contracts for management and operation of DOE facilities and other designated long-lived onsite contracts for which the contractor has established separate operating business units.

1. BASIC REQUIREMENTS

- a. Maintain commercial insurance or a self-insured program, (i.e., any insurance policy or coverage that protects the contractor from the risk of legal liability for adverse actions associated with its operation, including malpractice, injury, or negligence) as required by the terms of the contract. Types of insurance include automobile, general liability, and other third party liability insurance. Other forms of coverage must be justified as necessary in the operation of the Department facility and/or the performance of the contract, and approved by the DOE.
- b. Contractors shall not purchase insurance to cover public liability for nuclear incidents without DOE authorization (See DEAR 970.5070, INDEMNIFICATION, and DEAR 950.70, NUCLEAR INDEMNIFICATION OF DOE CONTRACTORS).
- c. Demonstrate that insurance programs and costs comply with the cost limitations and exclusions at FAR 28.307, INSURANCE UNDER COST REIMBURSEMENT CONTRACTS, FAR 31.205-19, INSURANCE AND

INDEMNIFICATION, DEAR 952.231-71 INSURANCE-LITIGATION AND CLAIMS, and Clause I.144 – DEAR 970.5228-1, INSURANCE-LITIGATION AND CLAIMS (PREV. I.98).

- d. Demonstrate that the insurance program is being conducted in the government's best interest and at reasonable cost.
- e. The contractor shall submit copies of all insurance policies or insurance arrangements to the Contracting Officer no later than 30 days after the purchase date.
- f. When purchasing commercial insurance, the contractor shall use a competitive process to ensure costs are reasonable.
- g. Ensure self-insurance programs include the following elements:
 - (1) Compliance with criteria set forth in FAR 28.308, Self-Insurance. Approval of self-insurance is predicated upon submission of verifiable proof that the self-insurance charge does not exceed the cost of purchased insurance. This includes hybrid plans (i.e., commercially purchased insurance with self-insured retention (SIR) such as large deductible, matching deductible, retrospective rating cash flow plans, and other plans where insurance reserves are under the control of the insured). The SIR components of such plans are self-insurance and are subject to the approval and submission requirements of FAR 28.308, as applicable.
 - (2) Demonstration of full compliance with applicable state and federal regulations and related professional administration necessary for participation in alternative insurance programs.
 - (3) Safeguards to ensure third party claims and claims settlements are processed in accordance with approved procedures.
 - (4) Accounting of self-insurance charges.
 - (5) Accrual of self-insurance reserve. The Contracting Officer's approval is required and predicated upon the following:
 - (a) The claims reserve shall be held in a special fund or interest bearing account.
 - (b) Submission of a formal written statement to the Contracting Officer stating that use of the reserve is exclusively for the payment of insurance claims and losses, and that DOE shall receive its equitable share of any excess funds or reserve.

- (c) Annual accounting and justification as to the reasonableness of the claims reserve submitted for Contracting Officer's review.
 - (d) Claim reserves, not payable within the year the loss occurred, are discounted to present value based on the prevailing Treasury rate.
 - h. Separately identify and account for interest cost on a Letter of Credit used to guarantee self-insured retention, as an unallowable cost and omitted from charges to the DOE contract.
 - i. Comply with the Contracting Officer's written direction for ensuring the continuation of insurance coverage and settlement of incurred and/or open claims and payments of premiums owed or owing to the insurer for prior DOE contractors.
2. PLAN EXPERIENCE REPORTING. The Contractor shall:
- a. provide the Contracting Officer with annual experience reports for each type of insurance (e.g., automobile and general liability), listing the following for each category:
 - (1) The amount paid for each claim.
 - (2) The amount reserved for each claim.
 - (3) The direct expenses related to each claim.
 - (4) A summary for the year showing total number of claims.
 - (5) A total amount for claims paid.
 - (6) A total amount reserved for claims.
 - (7) The total amount of direct expenses.
 - b. provide the Contracting Officer with an annual report of insurance costs and/or self-insurance charges. When applicable, separately identify total policy expenses (e.g., commissions, premiums, and costs for claims servicing) and major claims during the year, including those expected to become major claims (e.g., those claims valued at \$100,000 or greater).
 - c. provide additional claim financial experience data as may be requested on a case-by-case basis.

3. TERMINATING OPERATIONS. The Contractor shall:
 - a. ensure protection of the government's interest through proper recording of cancellation credits due to policy terminations and/or experience rating.
 - b. identify and provide continuing insurance policy administration and management requirements to a successor, other DOE contractor, or as specified by the Contracting Officer.
 - c. reach agreement with DOE on the handling and settlement of self insurance claims incurred but not reported at the time of contract termination; otherwise, the contractor shall retain this liability.
4. SUCCESSOR CONTRACTOR OR INSURANCE POLICY CANCELLATION. The Contractor shall:
 - a. obtain the written approval of the Contracting Officer for any change in program direction; and
 - b. ensure insurance coverage replacement is maintained as required and/or approved by the Contracting Officer.

H.51 - MANAGEMENT AND OPERATING CONTRACTOR (M&O) SUBCONTRACT REPORTING (NOV 2017)

- (a) Definitions. As used in this clause-

"First-tier subcontract" means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor's supplier agreements with vendors, such as long-term arrangements for materials or supplies that would benefit multiple contracts and/or the costs of which are normally applied to a Contractor's general and administrative expenses or indirect costs.

"Management and Operating Contractor Subcontract Reporting Capability (MOSRC)" means a DOE system and associated processes to collect key information about Management and Operating Contractor first-tier subcontracts for reporting to the Small Business Administration.

"Transaction" means any contract, order, other agreement or modification thereof (other than one involving an employer-employee relationship) entered into by the Contractor acquiring supplies or services (including construction) required solely for performance of the prime contract.

- (b) Reporting. The Contractor shall collect and report data via MOSRC necessary for DOE to meet its agency reporting requirements, as determined by the Small Business Administration, in accordance with the most recent reporting instructions at <https://energy.gov/management/downloads/mosrc-reporting-instructions>. The Contractor shall report first-tier subcontract data in MOSRC. Classified subcontracts shall not be reported. Subcontracts with Controlled Unclassified Information marking shall not be reported if restricted by its category. Contact your Contracting Officer if uncertain of information reporting requirements. The MOSRC reporting requirement does not replace any other reporting requirements (e.g. the Electronic Subcontracting Reporting System or the FFATA Subcontracting Reporting System).

H.52 - MULTIFACTOR AUTHENTICATION FOR CONTRACTOR INFORMATION SYSTEMS (JUN 2016)

The Contractor shall take actions to achieve multifactor authentication (MFA) for standard and privileged user accounts of all classified and unclassified networks by September 30, 2016. Any delays that are due to DOE's failure to provide adequate Government Furnished Equipment in a timely manner will be taken into account in assessing the accomplishment of this requirements.

H.53 - AGREEMENTS FOR COMMERCIALIZING TECHNOLOGY (APR 2018)

This H-clause authorizes the use of the mechanism: Agreements for Commercializing Technology (ACT). In accordance with the requirements specified in this H-clause, the M&O Contractor may conduct third party-sponsored research at the M&O Contractor's risk. While the Department believes ACT has the potential to greatly assist in the commercialization of technologies, it also specifically recognizes that ACT can be used for other engagements with outside entities that are not necessary aimed at commercialization (e.g., technical assistance, training, studies), but which facilitate access to DOE facilities. In performing ACT work, the M&O Contractor may use staff and other resources associated with this M&O contract for the purposes of conducting technical services¹, training, studies, performing research and development, and/or furthering the technology transfer mission of the Department, only when such work does not interfere with DOE-funded activities conducted as authorized by other parts of this M&O contract. The resources that may be used include Government- owned or leased facilities, equipment, or other property that is either in the M&O Contractor's custody or available to the M&O Contractor under this M&O contract (unless specifically excluded by the Contracting Officer). For M&O Contractor activities conducted under authority of

¹ Services that are routinely performed for DOE and multiple sponsors with little to no variance in the scope of work e.g., calibration services.

this H-clause, the M&O Contractor shall provide full-cost recovery, assume indemnification and liability as provided in paragraph 9 below, and may assume other risks normally borne by private parties sponsoring research at the DOE national laboratories and production plants. In exchange for accepting such risks, or for other private consideration provided by the M&O Contractor, the M&O Contractor is authorized to negotiate separate ACT agreements with the sponsoring third parties. Under ACT agreements, the M&O Contractor may charge those parties additional compensation beyond the full costs of the work at the facility.

The following applies to all work conducted under the ACT mechanism regardless of the source of funding:

1. Authority to Perform work under this H-clause. Pursuant to the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.) and other applicable authorities, the M&O Contractor may perform work for non-Federal entities, in accordance with the requirements of this H-clause.
2. M&O Contractor's Implementation. For ACT work conducted under the contract, the M&O Contractor must draft, implement, and maintain formal policies, practices, and procedures in accordance with this H-clause, which must be approved by the Contracting Officer, and such approval shall not be unreasonably withheld.
3. Conditions for Participation in ACT. The M&O Contractor:
 - a. Must not perform ACT activities that would place it in direct competition with the private sector;
 - b. May only conduct work under this H-clause if the work does not interfere with or adversely affect projects and programs the M&O Contractor conducts on behalf of the DOE under this contract, and complies with the terms and conditions of the prime contract. If the Government determines that an activity conducted under this H-clause interferes with the Department's work under the M&O contract, or that termination/stay/suspension of work under an ACT agreement is in the best interest of the Government, the M&O Contractor must stop the interfering ACT work immediately to the extent necessary to resolve the interference. At any time, the Contracting Officer may require the use of specified Government-owned or leased property and facilities for the exclusive use of the DOE mission by providing a written notice excluding said property from the M&O Contractor's activities under this H-clause. Any cost incurred as a result of Contracting Officer decisions identified in this subparagraph shall be borne by the M&O Contractor. The Contracting Officer shall provide to the M&O Contractor in writing its decision, identifying the issues and reasons for the decisions. The M&O Contractor

shall be provided with a reasonable opportunity to address and resolve the issues identified by the Contracting Officer;

- c. Except as otherwise excluded in this H-clause, must perform all ACT activities in accordance with the standards, policies, and procedures that apply to performance under this M&O contract, including but not limited to environmental, safety and health, security, safeguards and classification procedures, and human and animal research regulations;
- d. Must maintain and provide when requested by the DOE Contracting Officer, a summary of project information for each active ACT project, consisting of: sponsor name; total estimated costs; project title and description; project point of contact; and estimated start and completion dates;
- e. Is responsible for addressing the following items in ACT agreements as appropriate: disposition of property acquired under the agreement; export control; notice of intellectual property infringement; and a statement that the Government and/or the M&O Contractor shall have the right to perform similar services in the Statement of Work for other Parties as otherwise authorized by this M&O contract subject to applicable data restrictions;
- f. Must include a standard legal disclaimer notice on all publications generated under ACT activities. Each DOE M&O Contractor has its own pre-approved publications statement, and this should be included; and
- g. Must insert the following disclaimer in each agreement under ACT, which must be conspicuous (e.g. bold type, all capital letters, or large font) in all Agreements under ACT so as to meet the standards of due notice.

DISCLAIMER

THIS AGREEMENT IS SOLELY BETWEEN [INSERT NAME OF THE M&O CONTRACTOR] AND [THE OTHER IDENTIFIED PARTY]. THE UNITED STATES GOVERNMENT IS NOT A PARTY TO THIS AGREEMENT, THIS AGREEMENT DOES NOT CREATE ANY OBLIGATIONS OR LIABILITY ON BEHALF OF THE GOVERNMENT AND THE GOVERNMENT MAKES NO EXPRESS OR IMPLIED WARRANTY AS TO THE CONDITIONS OF THE RESEARCH OR ANY INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DEVELOPED UNDER THIS AGREEMENT, OR THE OWNERSHIP, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THE RESEARCH OR RESULTING PRODUCT; THAT THE GOODS, SERVICES, MATERIALS, PRODUCTS, PROCESSES, INFORMATION, OR DATA TO BE FURNISHED HEREUNDER WILL ACCOMPLISH INTENDED RESULTS OR ARE SAFE FOR ANY PURPOSE INCLUDING THE INTENDED PURPOSE;

OR THAT ANY OF THE ABOVE WILL NOT INTERFERE WITH PRIVATELY OWNED RIGHTS OF OTHERS. THE GOVERNMENT SHALL NOT BE LIABLE FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ATTRIBUTED TO SUCH RESEARCH OR RESULTING PRODUCT, INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DELIVERED UNDER THIS AGREEMENT. THIS DISCLAIMER DOES NOT AFFECT ANY RIGHTS THE GOVERNMENT MAY HAVE AGAINST THIRD PARTIES ARISING FROM WORK CONDUCTED IN CONNECTION WITH THIS AGREEMENT.

4. Contracting Authority.

- a. Subject to DOE approval as described in this paragraph, the M&O Contractor is hereby authorized to negotiate terms and conditions between the M&O Contractor and third parties when entering into ACT agreements. The M&O Contractor will have no authority to bind the Government in any way with such terms and conditions. The Government will have no obligation to the M&O Contractor due to such terms and conditions.
- b. The M&O Contractor shall submit an ACT proposal package (Package) to the Contracting Officer for approval prior to beginning work under an ACT agreement.
 - i. A complete Package will include at a minimum: the identity of the parties to the ACT agreement; the principal place of performance; any foreign ownership or control of the ACT agreement parties; a Statement of Work; an estimate of costs incurred under the M&O contract; an anticipated schedule; identification of key Government equipment and facilities that will be used under the ACT agreement; a list of expected deliverables; identification of the Intellectual Property (IP) lead and proposed selection of IP rights, as defined in DOE Class Waiver W(C)-2011-013; a signed certification by the private party(ies) that the M&O Contractor offered the option to use CRADA and SPP alternatives (see paragraph 7a) sufficiently such that the private parties are aware of the relative costs and other differences between the ACT agreement and the CRADA and SPP alternatives; source of funds, including a statement that no Federal funds, including pass-through funds received as a subcontractor or partner, are being utilized to fund the agreement except as authorized under the FedACT pilot (see paragraph 14 below); applicable ES&H and NEPA documentation; a statement of consideration, summarizing the risk and/or consideration offered the ACT participants in exchange for charging beyond full cost recovery or for other compensation

provided by the participants; and when multiple third parties are parties to the ACT agreement, or as otherwise requested by the Contracting Officer, an IP Management Plan that sets forth the proposed disposition of IP rights, and income and royalty sharing, among the parties to an ACT agreement.

- ii. If the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party to the ACT agreement, the M&O Contractor shall include as necessary a project-specific addendum to the Master OCI Plan in the Package to address special circumstances not fully anticipated in the prior approved Master OCI Plan (see paragraph 7).
- iii. If the ACT agreement includes a foreign entity as a party or the statement of work includes the use of human subjects, animal subjects, classified or sensitive subject matter or describes a work scope involving high risks or hazards including environmental issues, the M&O Contractor shall include additional information as necessary or as requested by the Contracting Officer.
- c. The Contracting Officer shall use reasonable best efforts to review each complete Package submitted by the M&O Contractor under subparagraph 4.b. of this H-clause within ten (10) business days of receiving the Package and provide the M&O Contractor with approval or non-approval of the Package. The review of the complete Package by the Contracting Officer shall include a determination that the proposed work: (1) is consistent with or complementary to DOE missions and the contract statement of work; (2) will not adversely impact programs under the contract scope of work; (3) will not place the contractor in direct competition with the domestic private sector; and (4) will not create a detrimental future burden on DOE resources.
- d. Except as conditionally allowed under subparagraph i. below, the Contracting Officer must approve the Package before the M&O Contractor may begin work under the proposed ACT agreement. If the Contracting Officer rejects the Package then the Contracting Officer must provide said rejection to the M&O Contractor in writing including the reasons for the rejection. Upon receipt of the Contracting Officer's written rejection, the M&O Contractor agrees to not further pursue the work described in the package or incur additional costs under the M&O contract for the work described in the Package.
 - i. The M&O Contractor may request a preliminary determination that the proposed scope of work is consistent with the contract statement of work and the Contracting Officer will use his/her best

efforts to provide such a determination within three (3) business days. Upon such a determination from the Contracting Officer, the M&O Contractor may begin work under the ACT agreement at the M&O Contractor's risk pending final approval of the complete Package. The M&O Contractor must submit a complete Package, as identified in subparagraph 4.b. above, within (10) business days of the preliminary determination. All costs associated with the performance of work under a preliminary determination are the responsibility of the M&O Contractor, as no Federal funds will be used to fund any work conducted under this H-clause.

- ii. If the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party sponsoring work in connection with the ACT agreement, work may not commence until approval of the complete Package by the Contracting Officer.
5. Advance Payment for ACT Projects. The M&O Contractor shall be responsible for providing adequate advance payment for ACT work conducted under this H-clause consistent with procedures defined in the Department's Financial Management Handbook. The M&O Contractor shall be solely responsible for collecting payments from third parties for any work conducted under this H-clause and such collections shall be independent of providing advance payment. For such payments and for any costs, obligations, or liabilities arising due to the M&O Contractor's work under this H-clause, the M&O Contractor is entirely at risk and the Government shall have no risk.
6. Costs. All direct costs associated with the M&O Contractor's work conducted under this H-clause shall be directly charged to separate and identifiable accounts in accordance with the requirements of the Department's Financial Management Handbook. An allocable portion of indirect costs normally applied to equivalent work under this M&O contract shall also be applied to work conducted under this H-clause in accordance with the requirements of the Financial Management Handbook. As required by the Financial Management Handbook, changes to the Handbook will be incorporated into this H-clause by a unilateral administrative modification to the contract. In addition, all work must be performed at full costs which would include Federal Administrative Charge (FAC).
 - a. Work conducted under this H-clause shall be excluded from the M&O contract award fee calculations and such fee shall not be allocable to work conducted under this H-clause.
 - b. Federal funds will not be used to fund work conducted under this H-clause except as authorized under the FedACT pilot (see paragraph 14 below).

7. Organizational Conflict of Interest. The M&O Contractor shall conduct work under this H- clause in a manner that minimizes the appearance of conflicts of interest and avoids or mitigates actual conflicts of interest with the M&O Contractor's functions under this M&O contract. Accordingly, the M&O Contractor shall develop an Organizational Conflict of Interest Mitigation Plan (OCI Plan). The OCI Plan should address OCI issues that arise as a result of the M&O Contractor taking a financial interest in ACT projects, especially in those cases where the M&O Contractor retains rights in ACT IP. Said OCI Plan shall be provided to the Contracting Officer for review and approval as soon as practicable after execution of the M&O contract modification incorporating this H-clause into the M&O contract. Unless provided otherwise by the Contracting Officer, no work on ACT agreements may commence before Contracting Officer approval of the OCI Plan. In addition to those elements expressly stated in the OCI Plan, the Department may condition any ACT transaction on such other mitigating conditions it determines are appropriate. The OCI Plan shall, at a minimum, include elements that address the following:
- a. Full Disclosure. Before work can begin under an ACT transaction, all parties to ACT agreements must sign a DOE-approved certification that they have been fully informed about the availability of SPP agreements and CRADAs in addition to ACT. The certification at a minimum shall briefly describe SPP agreements, CRADAs and ACT, and will include the relative disposition of IP rights and the costs (including identification of any additional costs e.g. insurance, and other compensation to the M&O Contractor under ACT) for each type of agreement for the scope of work being proposed.
 - b. Priority of Work. The M&O Contractor shall not give work under ACT any special attention or priority over other work under the DOE M&O contract. Work under ACT shall be approved by the Contracting Officer and assigned the same priority relative to other work under the DOE M&O contract that it would normally have if performed under a non-Federal SPP agreement. The Contracting Officer has discretion to determine the agency's priority of work, considering the M&O Contractor's input.
 - c. Participation by Contractor-related Entity: Where the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party to the ACT agreement, the M&O Contractor shall include as necessary an addendum to the OCI Plan to address special circumstances not fully anticipated in the OCI Plan.
 - d. Right of Inquiry for ACT IP Designation. DOE Patent Counsel may inquire into the M&O Contractor's designation of any invention or data as arising under an ACT transaction. The M&O Contractor is responsible for curing

any defect identified in such inquiry, and if the M&O Contractor cannot adequately justify the designation or cure the defect, then the parties to the ACT agreement may receive modified rights in the IP to the degree necessary to resolve the issues identified by the inquiry.

8. Intellectual Property. Disposition of intellectual property (IP) arising from work conducted under this H-clause shall be governed by Class Waiver W(C)-2011-013 (ACT Class Waiver) which is incorporated herein by reference.
 - a. All Contractor ACT inventions shall be reported to DOE pursuant to the requirements of the [cite Patent Rights –M&O contract, Nonprofit Organization or Small Business Firm Contractor] clause of this M&O contract.
 - b. In reporting ACT inventions, the M&O Contractor shall identify the ACT agreement under which the invention was made and specify the rights reserved by the Government pursuant to the ACT Class Waiver.
 - c. All technical data identified by the ACT client as Protected ACT Information shall also be marked to identify the ACT agreement under which the data was generated.
 - d. The M&O Contractor shall ensure that all rights and obligations concerning ACT IP, including the appropriate IP provisions authorized in the ACT Class Waiver, are clearly provided in ACT agreements, and that all parties granted any rights in ACT IP are informed of the terms of the waived rights, including the rights reserved by the Government.
 - e. Where the M&O Contractor receives ownership or license rights to ACT IP, the M&O Contractor may elect to commercialize the ACT IP consistent with the Technology Transfer Mission clause of this M&O contract.
 - f. As an alternative to subparagraph e., if the M&O Contractor has an authorized Private Funded Technology Transfer (PFTT) program, the M&O Contractor may elect to retain private ownership of the ACT IP and commercialize the IP under its applicable PFTT clause, using its private funds, where no costs for developing, patenting, and marketing will be allowable under this M&O contract. The M&O Contractor will share royalties collected on ACT IP with inventors in accordance with paragraph (h) of the Technology Transfer Mission clause of this M&O contract.
 - g. For ACT projects in which the terms of the Agreement provide that the Government reserves the right to use generated data after the particular project expires, the M&O Contractor must provide to OSTI computer software produced under the Agreement in both source and executable object code format.

- h. Where terms and conditions governing Data and Subject Inventions under this Contract are inconsistent with the terms of the ACT Class Waiver, the ACT Class Waiver will control.
- 9. Contractor Liability and Indemnification.
 - a. General Indemnity.
 - (i) The M&O Contractor agrees to indemnify and hold harmless the Government, the Department, and persons acting on their behalf from all liability, including costs and expenses incurred, to any person, including the ACT participants, for injury to or death of persons or other living things or injury to or destruction of property arising out of the performance of an ACT transaction by the Government, the Department, the M&O Contractor, or persons acting on their behalf, or arising out of the use of the services performed, materials supplied, or information given hereunder by any person including the M&O Contractor, and not directly resulting from the fault or negligence of the Government, the Department, or persons (other than the M&O Contractor) acting on their behalf.
 - (ii) Subject to Contracting Officer approval, the General Indemnity set forth in (i) above may be modified or waived where: (1) ACT participants are not providing material or equipment to the M&O Contractor to be used in the performance of the Statement of Work under the ACT transaction; and (2) ACT participants are not sending their employees to the M&O facilities as part of the Statement of Work; and (3) the specific activities performed under the ACT transaction are normally performed by the DOE M&O Contractor under the DOE contract.
 - (iii) Notwithstanding the provisions in a (i) and a (ii) above, the M&O Contractor shall indemnify and hold harmless the Government, the Department, and persons acting on their behalf for loss, damage, or destruction of Government property resulting from the fault or negligence of the M&O Contractor. Such indemnification shall be subject to a liability limit of \$2,000,000 (two million dollars) per year, or such greater liability limit approved by the cognizant DOE/NNSA Contracting Officer under the DOE contract. Above the applicable liability limit, the M&O Contractor's responsibility to the Government for such loss, damage or destruction, shall be as set forth in the "Property" clause of this contract.
 - b. Intellectual Property Indemnity. The M&O Contractor shall indemnify the Government, its agents, and employees against liability, including costs,

for infringement of any United States patent, copyright, or other intellectual property arising out of any acts required or directed to be performed under the Statement of Work under an ACT transaction to the extent such acts are not already performed at the M&O contract facilities. Such indemnity shall not apply to a claimed infringement that is settled without the consent of the M&O Contractor unless required by a court of competent jurisdiction.

c. Product Liability Indemnity.

Except for any liability resulting from any negligent acts or omissions of the Government, the M&O Contractor agrees to indemnify the Government for all damages, costs, and expenses, including attorney's fees, arising from personal injury or property damage occurring as a result of the making, using, or selling of a product, process, or service by or on behalf of the ACT participants or the M&O Contractor, their assignees, or licensees, which was derived from the work performed under ACT transactions. With respect to this H-clause, neither the Government nor the M&O Contractor shall be considered assignees or licensees as a result of reserved Government rights in ACT IP. The indemnity set forth in this paragraph shall apply only if the M&O Contractor shall have been informed as soon and as completely as practical by the Government of the action alleging such claim and shall have been given an opportunity, to the maximum extent afforded by applicable laws, rules, or regulations, to participate in and control its defense, and the Government shall have provided all reasonably available information and reasonable assistance requested by the M&O Contractor. No settlement for which the M&O Contractor would be responsible shall be made without the M&O Contractor's consent, unless required by final decree of a court of competent jurisdiction.

- (i) Where the M&O Contractor assigns the responsibility for indemnifying the Government under subparagraph c(i) above to other ACT participants, the M&O Contractor agrees to seek such indemnification from the other ACT participants.

d. Claims and Liabilities. Claims and liabilities resulting from the M&O Contractor's performance of work under an ACT transaction authorized pursuant to this H-clause shall not be subject to the M&O contract clause entitled "Insurance - Litigation and Claims." In no event shall the M&O Contractor be reimbursed under the M&O contract for liabilities (and expenses incidental to such liabilities, including litigation costs, counsel fees, and judgment and settlements) incurred as a result of third party claims related to the M&O Contractor's performance under this H-clause.

- e. Government Obligations. The M&O Contractor shall not include any guarantee or requirement that will obligate the Government to pay or incur any costs or create any liability on behalf of the Government in any ACT agreement or commitment the M&O Contractor executes under authority of this H-clause. The M&O Contractor agrees if the Contractor does include such a guarantee or requirement, it will have no effect on the Government, such that, the M&O Contractor will be responsible for any costs or liability due to such a guarantee or requirement.
 - f. Insurance. Any cost of insurance to cover risks of the M&O Contractor associated with ACT agreements is unallowable under this contract.
- 10. ACT Records. All records associated with the M&O Contractor's activities conducted under the authority of this H-clause, with the exception of information required under paragraphs 3e, 4.b.i, and 13 shall be treated as M&O Contractor-owned records under the provisions of the Access to and Ownership of Records clause of this M&O contract. The Government or its designees shall use such records in accordance with applicable Federal laws (including the Privacy Act), as appropriate.
 - 11. Termination. The Government or the M&O Contractor may terminate ACT authority under this contract by providing written notification of termination to the other party (Contracting Officer or the M&O Contractor) as appropriate, no less than 60 days prior to the requested termination date. In such cases, the M&O Contractor shall provide DOE a comprehensive list of active ACT projects. DOE anticipates work commitments under these agreements will be completed regardless of termination. All costs associated with early termination of any ACT agreements prior to the completion shall be the responsibility of the M&O Contractor.
 - 12. Successor M&O Contractor. To minimize the potential for negative Government programmatic impact and to facilitate seamless transition of work to a successor M&O Contractor, ACT agreement(s) executed under this H-clause and any contractual instruments associated therewith may be novated to the successor M&O Contractor with the mutual consent of the M&O Contractor, the successor M&O Contractor, and the parties to the affected ACT agreement(s). If the ACT agreement(s) cannot be novated, then the M&O Contractor as a private sponsor shall be permitted to enter into a Non-Federal SPP agreement with the successor M&O Contractor that will enable completion of the statement of work. Such agreements shall be entered into pursuant to DOE SPP policies. DOE shall make good faith efforts to incorporate the terms of the applicable ACT agreement.
 - 13. Minimum Reporting requirements. The M&O Contractor shall maintain records of its activities related to ACT in a manner and to the extent satisfactory to DOE and specifically including, but not limited to the number of ACT agreements, the amount of funds reimbursed to DOE for work under ACT and aggregate funding

received beyond costs in the performance of ACT, the number of third party entities engaged through ACT that had not previously sponsored projects under the M&O contract and the number that had not previously sponsored projects under any DOE/NNSA M&O contract, the amount of funds reimbursed to DOE by newly engaged entities, the number of parties and types of entities engaged in each individual ACT agreement, and the number of invention disclosures, licenses and start-ups arising from ACT. The M&O Contractor shall establish performance metric(s) to measure the time required to negotiate ACT agreements in a manner consistent with the time required to negotiate CRADAs and SPPs. The M&O Contractor shall obtain from each entity engaged in ACT the entity's reason(s) for selecting ACT for performance of work under the M&O contract. Also, the M&O Contractor shall report the above identified data annually to the DOE Contracting Officer and in such a format which will serve to adequately inform DOE of the Contractor's activities under ACT while protecting any data not subject to disclosure under this M&O contract. Such records shall be made available in accordance with the clauses of this M&O contract pertaining to inspection, audit and examination of records.

14. FedACT Pilot. Under this paragraph the DOE is authorizing a 3-year pilot program for Federally funded ACT (FedACT). FedACT contracts are ACT agreements between the M&O Contractor and a non-Federal third party partner, where a portion of the project funding originates from a Federal agency (i.e., Federal appropriations). In most cases, the industry partner's original source of funds will have been as a result of a contract or financial assistance award from the Federal agency. Any agreement that includes Federal funds must be performed under the FedACT pilot. Federal funds used to support a FedACT project must solely be used to carry out the purposes of the Federal award. FedACT does not include agreements directly funded from another Federal agency. DOE and the M&O Contractor recognize that FedACT is a new mechanism and subject to modifications as more data and experience are realized. During the FedACT pilot either party may suggest changes to the program based on the experiences gained. Furthermore, the M&O Contractor recognizes that the Department may decide to end the FedACT pilot at any time and that termination of the FedACT pilot by the Department will be in accordance with this paragraph. During the FedACT pilot the M&O Contractor is permitted to negotiate and execute such agreements, subject to DOE approval, as described in paragraph 4 above and as set forth herein. The following additional requirements apply:
 - a. The M&O Contractor agrees, prior to executing such agreements, to submit to DOE for approval a modified ACT procedure for implementing the execution of FedACT.
 - b. If the M&O Contractor is charging the third party additional compensation beyond the full costs of the work performed under the M&O contract, the ACT agreement will not be approved unless DOE or the M&O Contractor

obtains a written certification from the Federal agency funding the third party that such additional compensation using Federal funds is permissible under the Federal award. In order to maximize the transparency of the transaction to the funding agency, the written certification shall be in the form of a standard template approved by DOE. Such template shall include at a minimum:

- i. The amount of and explanation for the cost difference between performing the work as an ACT agreement as compared with an SPP or CRADA; and
 - ii. A detailed description of the risk and/or consideration offered the participant by the M&O Contractor in exchange for charging beyond full cost recovery. This information shall also be included in the statement of consideration contained in the ACT proposal package submitted to the Contracting Officer.
- c. The M&O Contractor may not agree to any terms and conditions of the Federal award that conflict with this M&O contract.
- d. Notwithstanding any other provision in this H-clause, rights to ACT inventions and copyrights arising from work conducted under this paragraph made by the M&O Contractor shall be governed by the terms of the Patent and Data Rights clauses of this M&O Contract, as well as any applicable PFTT clause. The ACT Class Waiver does not apply to any ACT agreement funded with Federal funds.
- e. DOE's approval to negotiate and execute a FedACT agreement under this paragraph is for the sole purpose of evaluating and considering the M&O Contractor and DOE's processes and procedures for implementing such FedACT agreements and does not in any way provide the Contractor authority beyond the scope of this paragraph or imply that permanent authority shall be forthcoming.
- f. Advance payment requirements in Section 5 equally apply to FedACT agreements.
- g. All work must be performed at full costs which includes a Federal Administrative Charge (FAC).
- h. Termination. The FedACT Pilot implemented by this H-clause will terminate three years from the date AL 2018-06 is issued, unless renewed by the Contracting Officer. The Government may provide the M&O Contractor with written notice to terminate the M&O Contractor's authority to conduct FedACT work under this H-clause at any time. If the Contractor's authority to conduct FedACT work under this H-clause has

expired or been terminated, the M&O Contractor will be permitted, subject to any other provisions of this H-clause, to complete any FedACT work that had been approved by DOE prior to this H- clause being terminated by the Government.

PART II

SECTION I

CONTRACT CLAUSES

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PART
II

SECTION I - CONTRACT
CLAUSES

I.1 - FAR 52.202-1 DEFINITIONS (NOV 2013) MODIFIED BY DEAR 952.202-1 (FEB 2011)

When a solicitation provision or contract clause uses a word or term that is defined in the Federal Acquisition Regulation (FAR), the word or term has the same meaning as the definition in FAR 2.101 in effect at the time the solicitation was issued, unless --

- (a) The solicitation, or amended solicitation, provides a different definition;
- (b) The contracting parties agree to a different definition;
- (c) When a solicitation provision or contract clause uses a word or term that is defined in the Department of Energy Acquisition Regulation (DEAR) (48 CFR chapter 9), the word or term has the same meaning as the definition in 48 CFR 902.101 or the definition in the part, subpart, or section of 48 CFR chapter 9 where the provision or clause is prescribed in effect at the time the solicitation was issued, unless an exception in (a) applies.
- (d) The part, subpart, or section of the FAR where the provision or clause is prescribed provides a different meaning; or
- (e) The word or term is defined in FAR Part 31, for use in the cost principles and procedures.

I.2 - FAR 52.203-3 GRATUITIES (APR 1984)

- (a) The right of the Contractor to proceed may be terminated by written notice if, after notice and hearing, the agency head or a designee determines that the Contractor, its agent, or another representative:
 - (1) Offered or gave a gratuity (e.g., an entertainment or gift) to an officer, official, or employee of the Government; and
 - (2) Intended, by the gratuity, to obtain a contract or favorable treatment under a contract.

- (b) The facts supporting this determination may be reviewed by any court having lawful jurisdiction.
- (c) If this contract is terminated under paragraph (a) of this clause, the Government is entitled:
 - (1) To pursue the same remedies as in a breach of the contract; and
 - (2) In addition to any other damages provided by law, to exemplary damages of not less than 3 nor more than 10 times the cost incurred by the Contractor in giving gratuities to the person concerned, as determined by the agency head or a designee. (This paragraph (c)(2) is applicable only if this contract uses money appropriated to the Department of Defense.)
- (d) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

I.3 - FAR 52.203-5 COVENANT AGAINST CONTINGENT FEES (MAY 2014)

- (a) The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this contract upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this contract without liability or to deduct from the contract price or consideration, or otherwise recover, the full amount of the contingent fee.
- (b) "Bona fide agency," as used in this clause, means an established commercial or selling agency, maintained by a contractor for the purpose of securing business, that neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds itself out as being able to obtain any Government contract or contracts through improper influence.

"Bona fide employee," as used in this clause, means a person, employed by a contractor and subject to the contractor's supervision and control as to time, place, and manner of performance, who neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds out as being able to obtain any Government contract or contracts through improper influence.

"Contingent fee," as used in this clause, means any commission, percentage, brokerage, or other fee that is contingent upon the success that a person or concern has in securing a Government contract.

“Improper influence,” as used in this clause, means any influence that induces or tends to induce a Government employee or officer to give consideration or to act regarding a Government contract on any basis other than the merits of the matter.

I.4 - FAR 52.203-6 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEP 2006)

- (a) Except as provided in (b) of this clause, the Contractor shall not enter into any agreement with an actual or prospective subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such subcontractors directly to the Government of any item or process (including computer software) made or furnished by the subcontractor under this contract or under any follow-on production contract.
- (b) The prohibition in (a) of this clause does not preclude the Contractor from asserting rights that are otherwise authorized by law or regulation.
- (c) The Contractor agrees to incorporate the substance of this clause, including this paragraph (c), in all subcontracts under this contract which exceed the simplified acquisition threshold.

I.5 - FAR 52.203-7 ANTI-KICKBACK PROCEDURES (MAY 2014)

- (a) Definitions.

“Kickback,” as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

“Person,” as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

“Prime contract,” as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

“Prime Contractor” as used in this clause, means a person who has entered into a prime contract with the United States.

“Prime Contractor employee,” as used in this clause, means any officer, partner, employee, or agent of a prime Contractor

“Subcontract,” as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

“Subcontractor,” as used in this clause,

- (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and
- (2) includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.

“Subcontractor employee,” as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

- (b) 41 U.S.C. chapter 87, Kickbacks, prohibits any person from --
 - (1) Providing or attempting to provide or offering to provide any kickback;
 - (2) Soliciting, accepting, or attempting to accept any kickback; or
 - (3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.
- (c)
 - (1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.
 - (2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Attorney General.
 - (3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.
 - (4) The Contracting Officer may

- (i) offset the amount of the kickback against any monies owed by the United States under the prime contract and/or
 - (ii) direct that the Prime Contractor withhold from sums owed a subcontractor under the prime contract the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.
- (5) The Contractor agrees to incorporate the substance of this clause, including paragraph (c)(5) but excepting paragraph (c)(1), in all subcontracts under this contract which exceed \$150,000.

I.6 - FAR 52.203-8 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (MAY 2014)

- (a) If the Government receives information that a contractor or a person has violated 41 U.S.C. 2102-2104, Restrictions on Obtaining and Disclosing Certain Information, the Government may --
- (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
 - (2) Rescind the contract with respect to which --
 - (i) The Contractor or someone acting for the Contractor has been convicted for an offense where the conduct violates 41 U.S.C. 2102 for the purpose of either --
 - (A) Exchanging the information covered by such subsections for anything of value; or
 - (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract; or
 - (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct punishable under 41 U.S.C. 2105(a).

- (b) If the Government rescinds the contract under paragraph (a) of this clause, the Government is entitled to recover, in addition to any penalty prescribed by law, the amount expended under the contract.
- (c) The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this contract.

I.7 - FAR 52.203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER
ACTIVITY (MAY 2014)

- (a) The Government, at its election, may reduce the price of a fixed-price type contract and the total cost and fee under a cost-type contract by the amount of profit or fee determined as set forth in paragraph (b) of this clause if the head of the contracting activity or designee determines that there was a violation of 41 U.S.C. 2102 or 2103, as implemented in section 3.104 of the Federal Acquisition Regulation.
- (b) The price or fee reduction referred to in paragraph (a) of this clause shall be –
 - (1) For cost-plus-fixed-fee contracts, the amount of the fee specified in the contract at the time of award;
 - (2) For cost-plus-incentive-fee contracts, the target fee specified in the contract at the time of award, notwithstanding any minimum fee or “fee floor” specified in the contract;
 - (3) For cost-plus-award-fee contracts --
 - (i) The base fee established in the contract at the time of contract award;
 - (ii) If no base fee is specified in the contract, 30 percent of the amount of each award fee otherwise payable to the Contractor for each award fee evaluation period or at each award fee determination point.
 - (4) For fixed-price-incentive contracts, the Government may --
 - (i) Reduce the contract target price and contract target profit both by an amount equal to the initial target profit specified in the contract at the time of contract award; or
 - (ii) If an immediate adjustment to the contract target price and contract target profit would have a significant adverse impact on the

incentive price revision relationship under the contract, or adversely affect the contract financing provisions, the Contracting Officer may defer such adjustment until establishment of the total final price of the contract. The total final price established in accordance with the incentive price revision provisions of the contract shall be reduced by an amount equal to the initial target profit specified in the contract at the time of contract award and such reduced price shall be the total final contract price.

- (5) For firm-fixed-price contracts, by 10 percent of the initial contract price or a profit amount determined by the Contracting Officer from records or documents in existence prior to the date of the contract award.
- (c) The Government may, at its election, reduce a prime contractor's price or fee in accordance with the procedures of paragraph (b) of this clause for violations of the statute by its subcontractors by an amount not to exceed the amount of profit or fee reflected in the subcontract at the time the subcontract was first definitively priced.
- (d) In addition to the remedies in paragraphs (a) and (c) of this clause, the Government may terminate this contract for default. The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law or under this contract.

**I.8 - FAR 52.203-12 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN
FEDERAL TRANSACTIONS (OCT 2010)**

(a) *Definitions.*

As used in this clause—

Agency means executive agency as defined in Federal Acquisition Regulation (FAR) 2.101.

Covered Federal action means any of the following actions:

- (1) Awarding any Federal contract.
- (2) Making any Federal grant.
- (3) Making any Federal loan.
- (4) Entering into any cooperative agreement.

- (5) Extending, continuing, renewing, amending, or modifying any Federal contract, grant, loan, or cooperative agreement.

Indian tribe and tribal organization have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450b) and include Alaskan Natives.

Influencing or attempting to influence means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

Local government means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

Officer or employee of an agency includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.
- (3) A special Government employee, as defined in section 202, Title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.

Person means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.

Reasonable compensation means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

Reasonable payment means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

Recipient includes the Contractor and all subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.

Regularly employed means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

State means a State of the United States, the District of Columbia, or an outlying area of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.

- (b) *Prohibition.* 31 U.S.C. 1352 prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal actions. In accordance with 31 U.S.C. 1352 the Contractor shall not use appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the award of this contract the extension, continuation, renewal, amendment, or modification of this contract.
 - (1) The term *appropriated funds* does not include profit or fee from a covered Federal action.

- (2) To the extent the Contractor can demonstrate that the Contractor has sufficient monies, other than Federal appropriated funds, the Government will assume that these other monies were spent for any influencing activities that would be unallowable if paid for with Federal appropriated funds.
- (c) *Exceptions.* The prohibition in paragraph (b) of this clause does not apply under the following conditions:
 - (1) *Agency and legislative liaison by Contractor employees.*
 - (i) Payment of reasonable compensation made to an officer or employee of the Contractor if the payment is for agency and legislative liaison activities not directly related to this contract. For purposes of this paragraph, providing any information specifically requested by an agency or Congress is permitted at any time.
 - (ii) Participating with an agency in discussions that are not related to a specific solicitation for any covered Federal action, but that concern—
 - (A) The qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities; or
 - (B) The application or adaptation of the person's products or services for an agency's use.
 - (iii) Providing prior to formal solicitation of any covered Federal action any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;
 - (iv) Participating in technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
 - (v) Making capability presentations prior to formal solicitation of any covered Federal action by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
 - (2) *Professional and technical services.*
 - (i) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or

modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

- (ii) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
 - (iii) As used in paragraph (c)(2) of this clause, “professional and technical services” are limited to advice and analysis directly applying any professional or technical discipline (for examples, see FAR 3.803(a)(2)(iii)).
 - (iv) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (3) Only those communications and services expressly authorized by paragraphs (c)(1) and (2) of this clause are permitted.
- (d) *Disclosure.*
- (1) If the Contractor did not submit OMB Standard Form LLL, Disclosure of Lobbying Activities, with its offer, but registrants under the Lobbying Disclosure Act of 1995 have subsequently made a lobbying contact on behalf of the Contractor with respect to this contract, the Contractor shall complete and submit OMB Standard Form LLL to provide the name of the lobbying registrants, including the individuals performing the services.
 - (2) If the Contractor did submit OMB Standard Form LLL disclosure pursuant to paragraph (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, and a change occurs that affects Block 10 of the OMB Standard Form LLL (name and address of lobbying registrant or

individuals performing services), the Contractor shall, at the end of the calendar quarter in which the change occurs, submit to the Contracting Officer within 30 days an updated disclosure using OMB Standard Form LLL.

(e) *Penalties.*

- (1) Any person who makes an expenditure prohibited under paragraph (b) of this clause or who fails to file or amend the disclosure to be filed or amended by paragraph (d) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
- (2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.

(f) *Cost allowability.* Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

(g) *Subcontracts.*

- (1) The Contractor shall obtain a declaration, including the certification and disclosure in paragraphs (c) and (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, from each person requesting or receiving a subcontract exceeding \$150,000 under this contract. The Contractor or subcontractor that awards the subcontract shall retain the declaration.
- (2) A copy of each subcontractor disclosure form (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall, at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor, submit to the Contracting Officer within 30 days a copy of all disclosures. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.
- (3) The Contractor shall include the substance of this clause, including this paragraph (g), in any subcontract exceeding \$150,000.

I.9 - FAR 52.203-13 CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT
(OCT 2015) (PREV. I.120)

(a) *Definition.* As used in this clause--

“Agent” means any individual, including a director, an officer, an employee, or an independent Contractor, authorized to act on behalf of the organization.

“Full cooperation”—

- (1) Means disclosure to the Government of the information sufficient for law enforcement to identify the nature and extent of the offense and the individuals responsible for the conduct. It includes providing timely and complete response to Government auditors’ and investigators’ request for documents and access to employees with information;
- (2) Does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not require—
 - (i) A Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine; or
 - (ii) Any officer, director, owner, or employee of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; and
- (3) Does not restrict a Contractor from—
 - (i) Conducting an internal investigation; or
 - (ii) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

“Subcontract” means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

“Subcontractor” means any supplier, distributor, vendor, or firm that furnished supplies or services to or for a prime contractor or another subcontractor.

“United States” means the 50 States, the District of Columbia, and outlying areas.

- (b) Code of business ethics and conduct.
 - (1) Within 30 days after contract award, unless the Contracting Officer establishes a longer time period, the Contractor shall—
 - (i) Have a written code of business ethics and conduct;
 - (ii) Make a copy of the code available to each employee engaged in performance of the contract.
 - (2) The Contractor shall—
 - (i) Exercise due diligence to prevent and detect criminal conduct; and
 - (ii) Otherwise promote an organizational culture that encourages ethical conduct and a commitment to compliance with the law.
 - (3)
 - (i) The Contractor shall timely disclose, in writing, to the agency Office of the Inspector General (OIG), with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of this contract or any subcontract thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed—
 - (A) A violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 of the United States Code; or
 - (B) A violation of the civil False Claims Act (31 U.S.C. 3729-3733).
 - (ii) The Government, to the extent permitted by law and regulation, will safeguard and treat information obtained pursuant to the Contractor's disclosure as confidential where the information has been marked "confidential" or "proprietary" by the company. To the extent permitted by the law and regulation, such information will not be released by the Government to the public pursuant to a Freedom of Information Act request, 5 U.S.C. Section 552, without prior notification to the Contractor. The Government may transfer documents provided by the Contractor to any department or agency within the Executive Branch if the information relates to matters within the organization's jurisdiction.

- (iii) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the Contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract.
- (c) *Business ethics awareness and compliance program and internal control system.*
This paragraph (c) does not apply if the Contractor has represented itself as a small business concern pursuant to the award of this contract or if this contract is for the acquisition of a commercial item as defined at FAR 2.101. The Contractor shall establish the following within 90 days after contract award, unless the Contracting Officer establishes a longer time period:
 - (1) An ongoing business ethics awareness and compliance program.
 - (i) This program shall include reasonable steps to communicate periodically and in a practical manner the Contractor's standards and procedures and other aspects of the Contractor's business ethics awareness and compliance program and internal control system, by conducting effective training programs and otherwise disseminating information appropriate to an individual's respective roles and responsibilities.
 - (ii) The training conducted under this program shall be provided to the Contractor's principals and employees, and as appropriate, the Contractor's agents and subcontractors.
 - (2) An internal control system.
 - (i) The Contractor's internal control system shall—
 - (A) Establish standards and procedures to facilitate timely discovery of improper conduct in connection with Government contracts; and
 - (B) Ensure corrective measures are promptly instituted and carried out.
 - (ii) At a minimum, the Contractor's internal control system shall provide for the following:
 - (A) Assignment of responsibility at a sufficiently high level and adequate resources to ensure effectiveness of the business ethics awareness and compliance program and internal control system.

- (B) Reasonable efforts not to include an individual as a principal, whom due diligence would have exposed as having engaged in conduct that is in conflict with the Contractor's code of business ethics and conduct.
- (C) Periodic reviews of company business practices, procedures, policies, and internal controls for compliance with the Contractor's code of business ethics and conduct and special requirements of Government contracting, including—
 - (1) Monitoring and auditing to detect criminal conduct;
 - (2) Periodic evaluation of the effectiveness of the business ethics awareness and compliance program and internal control system, especially if criminal conduct has been detected; and
 - (3) Periodic assessment of the risk of criminal conduct, with appropriate steps to design, implement, or modify the business ethics awareness and compliance program and the internal control system as necessary to reduce the risk of criminal conduct identified through this process.
- (D) An internal reporting mechanism, such as a hotline, which allows for anonymity or confidentiality, by which employees may report suspected instances of improper conduct, and instructions that encourage employees to make such reports.
- (E) Disciplinary action for improper conduct or for failing to take reasonable steps to prevent or detect improper conduct.
- (F) Timely disclosure, in writing, to the agency OIG, with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of any Government contract performed by the Contractor or a subcontractor thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed a violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 U.S.C. or a violation of the civil False Claims Act (31 U.S.C. 3729-3733).

- (1) If a violation relates to more than one Government contract, the Contractor may make the disclosure to the agency OIG and Contracting Officer responsible for the largest dollar value contract impacted by the violation.
 - (2) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract, and the respective agencies' contracting officers.
 - (3) The disclosure requirement for an individual contract continues until at least 3 years after final payment on the contract.
 - (4) The Government will safeguard such disclosures in accordance with paragraph (b)(3)(ii) of this clause.
- (G) Full cooperation with any Government agencies responsible for audits, investigations, or corrective actions.
- (d) Subcontracts.
- (1) The Contractor shall include the substance of this clause, including this paragraph (d), in subcontracts that have a value in excess of \$5.5 million and a performance period of more than 120 days.
 - (2) In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

I.10 - FAR 52.203-14 DISPLAY OF HOTLINE POSTER(S) (OCT 2015) MODIFIED BY DEAR 903.1004(B)(2)(II) (PREV. I.121)

- (a) Definition.

"United States," as used in this clause, means the 50 States, the District of Columbia, and outlying areas.

- (b) Display of fraud hotline poster(s). Except as provided in paragraph (c)-
- (1) During contract performance in the United States, the Contractor shall prominently display in common work areas within business segments performing work under this contract and at contract work sites-
 - (i) Any agency fraud hotline poster or Department of Homeland Security (DHS) fraud hotline poster identified in paragraph (b)(3) of this clause; and
 - (ii) Any DHS fraud hotline poster subsequently identified by the Contracting Officer.
 - (2) Additionally, if the Contractor maintains a company website as a method of providing information to employees, the Contractor shall display an electronic version of the poster(s) at the website.
 - (3) Any required posters may be obtained as follows:
 - (i) DOE IG Hotline Poster; and

Poster(s)	Obtain from
_____ N/A _____.	_____.
_____.	_____.
 - (ii) Appropriate agency name(s) and/or title of applicable Department of Homeland Security fraud hotline poster); and
 - (iii) The website(s) or other contact information for obtaining the poster(s) <http://ig.energy.gov/hotline.htm>.
- (c) If the Contractor has implemented a business ethics and conduct awareness program, including a reporting mechanism, such as a hotline poster, then the Contractor need not display any agency fraud hotline posters as required in paragraph (b) of this clause, other than any required DHS posters.
- (d) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (d), in all subcontracts that exceed \$5.5 million, except when the subcontract-
- (1) Is for the acquisition of a commercial item; or
 - (2) Is performed entirely outside the United States.

I.11 - FAR 52.203-15 WHISTLEBLOWER PROTECTIONS UNDER THE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (JUN 2010) (PREV. I.135)

- (a) The Contractor shall post notice of employees rights and remedies for whistleblower protections provided under section 1553 of the American Recovery and Reinvestment Act of 2009 (Pub. L. 111-5) (Recovery Act).
- (b) The Contractor shall include the substance of this clause, including this paragraph (b), in all subcontracts that are funded in whole or in part with Recovery Act funds.

I.12 - FAR 52.203-17 CONTRACTOR EMPLOYEE WHISTLEBLOWER RIGHTS AND REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (APR 2014) (PREV. I.151)

- (a) This contract and employees working on this contract will be subject to the whistleblower rights and remedies in the pilot program on Contractor employee whistleblower protections established at 41 U.S.C. 4712 by section 828 of the National Defense Authorization Act for Fiscal Year 2013 (Pub. L. 112-239) and FAR 3.908.
- (b) The Contractor shall inform its employees in writing, in the predominant language of the workforce, of employee whistleblower rights and protections under 41 U.S.C. 4712, as described in section 3.908 of the Federal Acquisition Regulation.
- (c) The Contractor shall insert the substance of this clause, including this paragraph (c), in all subcontracts over the simplified acquisition threshold.

I.13 - FAR 52.203-19 PROHIBITION ON REQUIRING CERTAIN INTERNAL CONFIDENTIALITY AGREEMENTS OR STATEMENTS (JAN 2017) (PREV. I.155)

- (a) Definitions. As used in this clause—

Internal confidentiality agreement or statement means a confidentiality agreement or any other written statement that the contractor requires any of its employees or subcontractors to sign regarding nondisclosure of contractor information, except that it does not include confidentiality agreements arising out of civil litigation or confidentiality agreements that contractor employees or subcontractors sign at the behest of a Federal agency.

Subcontract means any contract as defined in subpart 2.1 entered into by a subcontractor to furnish supplies or services for performance of a prime contract

or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.

Subcontractor means any supplier, distributor, vendor, or firm (including a consultant) that furnishes supplies or services to or for a prime contractor or another subcontractor.

- (b) The Contractor shall not require its employees or subcontractors to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting waste, fraud, or abuse related to the performance of a Government contract to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information (e.g., agency Office of the Inspector General).
- (c) The Contractor shall notify current employees and subcontractors that prohibitions and restrictions of any preexisting internal confidentiality agreements or statements covered by this clause, to the extent that such prohibitions and restrictions are inconsistent with the prohibitions of this clause, are no longer in effect.
- (d) The prohibition in paragraph (b) of this clause does not contravene requirements applicable to Standard Form 312 (Classified Information Nondisclosure Agreement), Form 4414 (Sensitive Compartmented Information Nondisclosure Agreement), or any other form issued by a Federal department or agency governing the nondisclosure of classified information.
- (e) In accordance with section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015, (Pub. L. 113-235), and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions) use of funds appropriated (or otherwise made available) is prohibited, if the Government determines that the Contractor is not in compliance with the provisions of this clause.
- (f) The Contractor shall include the substance of this clause, including this paragraph (f), in subcontracts under such contracts.

I.14 - FAR 52.204-4 PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER (MAY 2011) (PREV. I.9)

- (a) *Definitions.* As used in this clause—

Postconsumer fiber means—

- (1) Paper, paperboard, and fibrous materials from retail stores, office buildings, homes, and so forth, after they have passed through their end - usage as a consumer item, including: used corrugated boxes; old newspapers; old magazines; mixed waste paper; tabulating cards; and used cordage; or
 - (2) All paper, paperboard, and fibrous materials that enter and are collected from municipal solid waste; but not
 - (3) Fiber derived from printers' over-runs, converters' scrap, and over-issue publications.
- (b) The Contractor is required to submit paper documents, such as offers, letters, or reports that are printed or copied double-sided on paper containing at least 30 percent postconsumer fiber, whenever practicable, when not using electronic commerce methods to submit information or data to the Government.

I.15 - FAR 52.204-9 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011) (PREV. 141)

- (a) The Contractor shall comply with agency personal identity verification procedures identified in the contract that implement Homeland Security Presidential Directive-12 (HSPD-12), Office of Management and Budget (OMB) guidance M-05-24 and Federal Information Processing Standards Publication (FIPS PUB) Number 201.
- (b) The Contractor shall account for all forms of Government-provided identification issued to the Contractor employees in connection with performance under this contract. The Contractor shall return such identification to the issuing agency at the earliest of any of the following, unless otherwise determined by the Government:
 - (1) When no longer needed for contract performance.
 - (2) Upon completion of the Contractor employee's employment.
 - (3) Upon contract completion or termination.
- (c) The Contracting Officer may delay final payment under a contract if the Contractor fails to comply with these requirements.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts when the subcontractor's employees are required to have routine physical access to a Federally-controlled facility and/or routine access to a Federally-controlled information system. It shall be the responsibility of the

prime Contractor to return such identification to the issuing agency in accordance with the terms set forth in paragraph (b) of this section, unless otherwise approved in writing by the Contracting Officer.

I.16 - FAR 52.204-10 REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2018) (PREV. I.147)

(a) Definitions. As used in this clause:

“Executive” means officers, managing partners, or any other employees in management positions.

“First-tier subcontract” means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor’s supplier agreements with vendors, such as long-term arrangements for materials or supplies that benefit multiple contracts and/or the costs of which are normally applied to a Contractor’s general and administrative expenses or indirect costs.

“Month of award” means the month in which a contract is signed by the Contracting Officer or the month in which a first-tier subcontract is signed by the Contractor.

“Total compensation” means the cash and noncash dollar value earned by the executive during the Contractor’s preceding fiscal year and includes the following (for more information see 17 CFR 229.402(c)(2)):

- (1) Salary and bonus.
- (2) Awards of stock, stock options, and stock appreciation rights. Use the dollar amount recognized for financial statement reporting purposes with respect to the fiscal year in accordance with the Financial Accounting Standards Board’s Accounting Standards Codification (FASB ASC) 718, Compensation-Stock Compensation.
- (3) Earnings for services under non-equity incentive plans. This does not include group life, health, hospitalization or medical reimbursement plans that do not discriminate in favor of executives, and are available generally to all salaried employees.
- (4) Change in pension value. This is the change in present value of defined benefit and actuarial pension plans.
- (5) Above-market earnings on deferred compensation which is not tax-qualified.

- (6) Other compensation, if the aggregate value of all such other compensation (e.g., severance, termination payments, value of life insurance paid on behalf of the employee, perquisites or property) for the executive exceeds \$10,000.
- (b) Section 2(d)(2) of the Federal Funding Accountability and Transparency Act of 2006 (Pub. L. 109-282), as amended by section 6202 of the Government Funding Transparency Act of 2008 (Pub. L. 110-252), requires the Contractor to report information on subcontract awards. The law requires all reported information be made public, therefore, the Contractor is responsible for notifying its subcontractors that the required information will be made public.
- (c) Nothing in this clause requires the disclosure of classified information
- (d) (1) Executive compensation of the prime contractor. As a part of its annual registration requirement in the System for Award Management (SAM) (FAR provision 52.204-7), the Contractor shall report the names and total compensation of each of the five most highly compensated executives for its preceding completed fiscal year, if—
 - (i) In the Contractor's preceding fiscal year, the Contractor received—
 - (A) 80 percent or more of its annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (B) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (ii) The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, see the U.S. Security and Exchange Commission total compensation filings at <http://www.sec.gov/answers/execomp.htm>.)
- (2) First-tier subcontract information. Unless otherwise directed by the contracting officer, or as provided in paragraph (g) of this clause, by the end of the month following the month of award of a first-tier subcontract with a value of \$30,000 or more, the Contractor shall report the following information at <http://www.fsrs.gov> for that first-tier subcontract. (The

Contractor shall follow the instructions at <http://www.fsrs.gov> to report the data.)

- (i) Unique entity identifier for the subcontractor receiving the award and for the subcontractor's parent company, if the subcontractor has a parent company.
 - (ii) Name of the subcontractor.
 - (iii) Amount of the subcontract award.
 - (iv) Date of the subcontract award.
 - (v) A description of the products or services (including construction) being provided under the subcontract, including the overall purpose and expected outcomes or results of the subcontract.
 - (vi) Subcontract number (the subcontract number assigned by the Contractor).
 - (vii) Subcontractor's physical address including street address, city, state, and country. Also include the nine-digit zip code and congressional district.
 - (viii) Subcontractor's primary performance location including street address, city, state, and country. Also include the nine-digit zip code and congressional district.
 - (ix) The prime contract number, and order number if applicable.
 - (x) Awarding agency name and code.
 - (xi) Funding agency name and code.
 - (xii) Government contracting office code.
 - (xiii) Treasury account symbol (TAS) as reported in FPDS.
 - (xiv) The applicable North American Industry Classification System code (NAICS).
- (3) Executive compensation of the first-tier subcontractor. Unless otherwise directed by the Contracting Officer, by the end of the month following the month of award of a first-tier subcontract with a value of \$30,000 or more, and annually thereafter (calculated from the prime contract award date), the Contractor shall report the names and total compensation of each of

the five most highly compensated executives for that first-tier subcontractor for the first-tier subcontractor's preceding completed fiscal year at <http://www.fsrs.gov>, if—

- (i) In the subcontractor's preceding fiscal year, the subcontractor received—
 - (A) 80 percent or more of its annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (B) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
- (ii) The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, see the U.S. Security and Exchange Commission total compensation filings at <http://www.sec.gov/answers/execomp.htm>.)
- (e) The Contractor shall not split or break down first-tier subcontract awards to a value less than \$30,000 to avoid the reporting requirements in paragraph (d) of this clause.
- (f) The Contractor is required to report information on a first-tier subcontract covered by paragraph (d) when the subcontract is awarded. Continued reporting on the same subcontract is not required unless one of the reported data elements changes during the performance of the subcontract. The Contractor is not required to make further reports after the first-tier subcontract expires.
- (g)
 - (1) If the Contractor in the previous tax year had gross income, from all sources, under \$300,000, the Contractor is exempt from the requirement to report subcontractor awards.
 - (2) If a subcontractor in the previous tax year had gross income from all sources under \$300,000, the Contractor does not need to report awards for that subcontractor.
- (h) The FSRS database at <http://www.fsrs.gov> will be pre-populated with some information from SAM and the FPDS database. If FPDS information is incorrect,

the contractor should notify the contracting officer. If the SAM information is incorrect, the contractor is responsible for correcting this information.

I.17 - FAR 52.204-13 SYSTEM FOR AWARD MANAGEMENT MAINTENANCE
(OCT 2018) (PREV. I.9A)

(a) Definitions. As used in this clause—

“Electronic Funds Transfer (EFT) indicator” means a four-character suffix to the unique entity identifier. The suffix is assigned at the discretion of the commercial, nonprofit, or Government entity to establish additional System for Award Management (SAM) records for identifying alternative EFT accounts (see subpart 32.11) for the same entity.

“Registered in the System for Award Management (SAM)” means that—

- (1) The Contractor has entered all mandatory information, including the unique entity identifier and the EFT indicator (if applicable), the Commercial and Government Entity (CAGE) code, as well as data required by the Federal Funding Accountability and Transparency Act of 2006 (see subpart 4.14), into SAM;
- (2) The Contractor has completed the Core, Assertions, Representations and Certifications, and Points of Contact sections of the registration in SAM;
- (3) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS). The Contractor will be required to provide consent for TIN validation to the Government as a part of the SAM registration process; and
- (4) The Government has marked the record “Active”.

“System for Award Management (SAM)” means the primary Government repository for prospective Federal awardee and Federal awardee information and the centralized Government system for certain contracting, grants, and other assistance-related processes. It includes—

- (1) Data collected from prospective Federal awardees required for the conduct of business with the Government;
- (2) Prospective contractor-submitted annual representations and certifications in accordance with FAR subpart 4.12; and

- (3) Identification of those parties excluded from receiving Federal contracts, certain subcontracts, and certain types of Federal financial and non-financial assistance and benefits.

“Unique entity identifier” means a number or other identifier used to identify a specific commercial, nonprofit, or Government entity.

See <http://www.sam.gov> for the designated entity for establishing unique entity identifiers.

- (b) If the solicitation for this contract contained the provision 52.204-7 with its Alternate I, and the Contractor was unable to register prior to award, the Contractor shall be registered in SAM within 30 days after award or before three days prior to submission of the first invoice, whichever occurs first.
- (c) The Contractor shall maintain registration in SAM during contract performance and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement. The Contractor is responsible for the currency, accuracy and completeness of the data within SAM, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in SAM after the initial registration, the Contractor is required to review and update on an annual basis, from the date of initial registration or subsequent updates, its information in SAM to ensure it is current, accurate and complete. Updating information in SAM does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(d)

(1)

- (i) If a Contractor has legally changed its business name or “doing business as” name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to—

- (A) Change the name in SAM;
- (B) Comply with the requirements of subpart 42.12 of the FAR; and
- (C) Agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor shall

provide with the notification sufficient documentation to support the legally changed name.

- (ii) If the Contractor fails to comply with the requirements of paragraph (d)(1)(i) of this clause, or fails to perform the agreement at paragraph (d)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the SAM information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.
- (2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in SAM record to reflect an assignee for the purpose of assignment of claims (see FAR subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the SAM. Information provided to the Contractor's SAM record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the EFT clause of this contract.
- (3) The Contractor shall ensure that the unique entity identifier is maintained with the entity designated at www.sam.gov for establishment of the unique entity identifier throughout the life of the contract. The Contractor shall communicate any change to the unique entity identifier to the Contracting Officer within 30 days after the change, so an appropriate modification can be issued to update the data on the contract. A change in the unique entity identifier does not necessarily require a novation be accomplished.
- (e) Contractors may obtain additional information on registration and annual confirmation requirements at <https://www.sam.gov>.

I.18 - FAR 52.204-21 BASIC SAFEGUARDING OF COVERED CONTRACTOR INFORMATION SYSTEMS (JUN 2016)

- (a) Definitions. As used in this clause—

"Covered contractor information system" means an information system that is owned or operated by a contractor that processes, stores, or transmits Federal contract information.

"Federal contract information" means information, not intended for public release, that is provided by or generated for the Government under a contract to develop

or deliver a product or service to the Government, but not including information provided by the Government to the public (such as on public websites) or simple transactional information, such as necessary to process payments.

“Information” means any communication or representation of knowledge such as facts, data, or opinions, in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual (Committee on National Security Systems Instruction (CNSSI) 4009).

“Information system” means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information (44 U.S.C. 3502).

“Safeguarding” means measures or controls that are prescribed to protect information systems.

- (b) Safeguarding requirements and procedures.
 - (1) The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:
 - (i) Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).
 - (ii) Limit information system access to the types of transactions and functions that authorized users are permitted to execute.
 - (iii) Verify and control/limit connections to and use of external information systems.
 - (iv) Control information posted or processed on publicly accessible information systems.
 - (v) Identify information system users, processes acting on behalf of users, or devices.
 - (vi) Authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.
 - (vii) Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.

- (viii) Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.
 - (ix) Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.
 - (x) Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems.
 - (xi) Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.
 - (xii) Identify, report, and correct information and information system flaws in a timely manner.
 - (xiii) Provide protection from malicious code at appropriate locations within organizational information systems.
 - (xiv) Update malicious code protection mechanisms when new releases are available.
 - (xv) Perform periodic scans of the information system and real-time scans of files from external sources as files are downloaded, opened, or executed.
- (2) Other requirements. This clause does not relieve the Contractor of any other specific safeguarding requirements specified by Federal agencies and departments relating to covered contractor information systems generally or other Federal safeguarding requirements for controlled unclassified information (CUI) as established by Executive Order 13556.
- (c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial items, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.

I.19 - FAR 52.204-23 PROHIBITION ON CONTRACTING FOR HARDWARE, SOFTWARE, AND SERVICES DEVELOPED OR PROVIDED BY KASPERSKY LAB AND OTHER COVERED ENTITIES (JUL 2018) (PREV. I.160)

(a) *Definitions.* As used in this clause—

Covered article means any hardware, software, or service that—

- (1) Is developed or provided by a covered entity;
- (2) Includes any hardware, software, or service developed or provided in whole or in part by a covered entity; or
- (3) Contains components using any hardware or software developed in whole or in part by a covered entity.

Covered entity means—

- (1) Kaspersky Lab;
- (2) Any successor entity to Kaspersky Lab;
- (3) Any entity that controls, is controlled by, or is under common control with Kaspersky Lab; or
- (4) Any entity of which Kaspersky Lab has a majority ownership.

(b) *Prohibition.* Section 1634 of Division A of the National Defense Authorization Act for Fiscal Year 2018 (Pub. L. 115-91) prohibits Government use of any covered article. The Contractor is prohibited from—

- (1) Providing any covered article that the Government will use on or after October 1, 2018; and
- (2) Using any covered article on or after October 1, 2018, in the development of data or deliverables first produced in the performance of the contract.

(c) *Reporting requirement.*

- (1) In the event the Contractor identifies a covered article provided to the Government during contract performance, or the Contractor is notified of such by a subcontractor at any tier or any other source, the Contractor shall report, in writing, to the Contracting Officer or, in the case of the Department of Defense, to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for

any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

- (2) The Contractor shall report the following information pursuant to paragraph (c)(1) of this clause:
- (i) Within 1 business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; brand; model number (Original Equipment Manufacturer (OEM) number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
 - (ii) Within 10 business days of submitting the report pursuant to paragraph (c)(1) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of a covered article, any reasons that led to the use or submission of the covered article, and any additional efforts that will be incorporated to prevent future use or submission of covered articles.
- (d) *Subcontracts.* The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts, including subcontracts for the acquisition of commercial items.

I.20 - FAR 52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019) (PREV. I.169)

- (a) Definitions. As used in this clause—
- “Covered foreign country” means The People’s Republic of China.
- “Covered telecommunications equipment or services” means—
- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
 - (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision

Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

“Critical technology” means—

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-
 - (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
 - (ii) For reasons relating to regional stability or surreptitious listening;
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or
- (6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

“Substantial or essential component” means any component necessary for the proper function or performance of a piece of equipment, system, or service.

- (b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in Federal Acquisition Regulation 4.2104.
- (c) Exceptions. This clause does not prohibit contractors from providing—
 - (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
 - (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
- (d) Reporting requirement.
 - (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.
 - (2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

- (i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
 - (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.
- (e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

I.21 - FAR 52.208-8 REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA (AUG 2018) [SC ALTERNATE APR 2018] (PREV. I.9B)

(a) *Definitions.*

“Bureau of Land Management,” as used in this clause, means the Department of the Interior, Bureau of Land Management, Amarillo Field Office, Helium Operations, located at 801 South Fillmore Street, Suite 500, Amarillo, TX 79101-3545.

“Federal helium supplier” means a private helium vendor that has an in-kind crude helium sales contract with the Bureau of Land Management (BLM) and that is on the BLM Amarillo Field Office’s Authorized List of Federal Helium Suppliers available via the Internet at <https://www.blm.gov/programs/energy-and-minerals/helium/partners>.

“Major helium requirement” means an estimated refined helium requirement greater than 200,000 standard cubic feet (scf) (measured at 14.7 pounds per square inch absolute pressure and 70 degrees Fahrenheit temperature) of gaseous helium or 7510 liters of liquid helium delivered to a helium use location per year.

(b) Requirements—

- (1) Contractors must purchase major helium requirements from Federal helium suppliers, to the extent that supplies are available.
 - (2) The Contractor shall provide a consolidated report of the following data to the Bureau of Land Management with a copy to the Contracting Officer within 45 days of the close of each fiscal quarter --(i) The name of the supplier;

(ii) The amount of helium purchased;

(iii) The delivery date(s); and

(iv) The location where the helium was used.
- (c) *Subcontracts.* The Contractor shall insert this clause, including this paragraph (c), in any subcontract or order that involves a major helium requirement.

I.22 - FAR 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (OCT 2015) (PREV. I.10)

- (a) Definition. "Commercially available off-the-shelf (COTS) item, as used in this clause-
- (1) Means any item of supply (including construction material) that is-
 - (i) A commercial item (as defined in paragraph (1) of the definition in FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
 - (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.
- (b) The Government suspends or debar Contractors to protect the Government's interests. Other than a subcontract for a commercially available off-the-shelf item, the Contractor shall not enter into any subcontract, in excess of \$35,000 with a Contractor that is debarred, suspended, or proposed for debarment by any executive agency unless there is a compelling reason to do so.

- (c) The Contractor shall require each proposed subcontractor whose subcontract will exceed \$35,000, other than a subcontractor providing a commercially available off-the-shelf item, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
- (d) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party (other than a subcontractor providing a commercially available off-the-shelf item) that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the System for Award Management (SAM) Exclusions). The notice must include the following:
 - (1) The name of the subcontractor.
 - (2) The Contractor's knowledge of the reasons for the subcontractor being listed with an exclusion in SAM.
 - (3) The compelling reason(s) for doing business with the subcontractor notwithstanding its being listed with an exclusion in SAM.
 - (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.
- (e) Subcontracts. Unless this is a contract for the acquisition of commercial items, the Contractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for the identification of the parties), in each subcontract that-
 - (1) Exceeds \$35,000 in value; and
 - (2) Is not a subcontract for commercially available off-the-shelf items.

**I.23 - FAR 52.209-9 UPDATES OF PUBLICLY AVAILABLE INFORMATION
REGARDING RESPONSIBILITY MATTERS (OCT 2018) (PREV. I.142)**

- (a) The Contractor shall update the information in the Federal Awardee Performance and Integrity Information System (FAPIIS) on a semi-annual basis, throughout the life of the contract, by posting the required information in the System for Award Management via <https://www.sam.gov>.

- (b) As required by section 3010 of the Supplemental Appropriations Act, 2010 (Pub. L. 111-212), all information posted in FAPIIS on or after April 15, 2011, except past performance reviews, will be publicly available. FAPIIS consists of two segments—
 - (1) The non-public segment, into which Government officials and the Contractor post information, which can only be viewed by—
 - (i) Government personnel and authorized users performing business on behalf of the Government; or
 - (ii) The Contractor, when viewing data on itself; and
 - (2) The publicly-available segment, to which all data in the non-public segment of FAPIIS is automatically transferred after a waiting period of 14 calendar days, except for—
 - (i) Past performance reviews required by subpart 42.15;
 - (ii) Information that was entered prior to April 15, 2011; or
 - (iii) Information that is withdrawn during the 14-calendar-day waiting period by the Government official who posted it in accordance with paragraph (c)(1) of this clause.
- (c) The Contractor will receive notification when the Government posts new information to the Contractor's record.
 - (1) If the Contractor asserts in writing within 7 calendar days, to the Government official who posted the information, that some of the information posted to the non-public segment of FAPIIS is covered by a disclosure exemption under the Freedom of Information Act, the Government official who posted the information must within 7 calendar days remove the posting from FAPIIS and resolve the issue in accordance with agency Freedom of Information procedures, prior to reposting the releasable information. The contractor must cite 52.209-9 and request removal within 7 calendar days of the posting to FAPIIS.
 - (2) The Contractor will also have an opportunity to post comments regarding information that has been posted by the Government. The comments will be retained as long as the associated information is retained, i.e., for a total period of 6 years. Contractor comments will remain a part of the record unless the Contractor revises them.

- (3) As required by section 3010 of Pub. L. 111-212, all information posted in FAPIIS on or after April 15, 2011, except past performance reviews, will be publicly available.
- (d) Public requests for system information posted prior to April 15, 2011, will be handled under Freedom of Information Act procedures, including, where appropriate, procedures promulgated under E.O. 12600.

I.24 - FAR 52.209-10 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS (NOV 2015)

- (a) Definitions. As used in this clause-

“Inverted domestic corporation” means a foreign incorporated entity that meets the definition of an inverted domestic corporation under 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

“Subsidiary” means an entity in which more than 50 percent of the entity is owned-

- (1) Directly by a parent corporation; or
 - (2) Through another subsidiary of a parent corporation.
- (b) If the contractor reorganizes as an inverted domestic corporation or becomes a subsidiary of an inverted domestic corporation at any time during the period of performance of this contract, the Government may be prohibited from paying for Contractor activities performed after the date when it becomes an inverted domestic corporation or subsidiary. The Government may seek any available remedies in the event the Contractor fails to perform in accordance with the terms and conditions of the contract as a result of Government action under this clause.
 - (c) Exceptions to this prohibition are located at 9.108-2.
 - (d) In the event the Contractor becomes either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation during contract performance, the Contractor shall give written notice to the Contracting Officer within five business days from the date of the inversion event.

I.25 - FAR 52.210-1 MARKET RESEARCH (APR 2011) (PREV. I.143)

- (a) Definition. As used in this clause—

“Commercial item” and “nondevelopmental item” have the meaning contained in Federal Acquisition Regulation 2.101.

- (b) Before awarding subcontracts over the simplified acquisition threshold for items other than commercial items, the Contractor shall conduct market research to —
 - (1) Determine if commercial items or, to the extent commercial items suitable to meet the agency’s needs are not available, nondevelopmental items are available that—
 - (i) Meet the agency’s requirements;
 - (ii) Could be modified to meet the agency’s requirements; or
 - (iii) Could meet the agency’s requirements if those requirements were modified to a reasonable extent; and
 - (2) Determine the extent to which commercial items or nondevelopmental items could be incorporated at the component level.

I.26 - FAR 52.211-5 MATERIAL REQUIREMENTS (AUG 2000) (PREV. I.11)

- (a) Definitions.

As used in this clause --

New means composed of previously unused components, whether manufactured from virgin material, recovered material in the form of raw material, or materials and by-products generated from, and reused within, an original manufacturing process; provided that the supplies meet contract requirements, including but not limited to, performance, reliability, and life expectancy.

Reconditioned means restored to the original normal operating condition by readjustments and material replacement.

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

Remanufactured means factory rebuilt to original specifications.

Virgin material means --

- (1) Previously unused raw material, including previously unused copper, aluminum, lead, zinc, iron, other metal or metal ore; or
 - (2) Any undeveloped resource that is, or with new technology will become, a source of raw materials.
- (b) Unless this contract otherwise requires virgin material or supplies composed of or manufactured from virgin material, the Contractor shall provide supplies that are new, reconditioned, or remanufactured, as defined in this clause.
 - (c) A proposal to provide unused former Government surplus property shall include a complete description of the material, the quantity, the name of the Government agency from which acquired, and the date of acquisition.
 - (d) A proposal to provide used, reconditioned, or remanufactured supplies shall include a detailed description of such supplies and shall be submitted to the Contracting Officer for approval.
 - (e) Used, reconditioned, or remanufactured supplies, or unused former Government surplus property, may be used in contract performance if the Contractor has proposed the use of such supplies, and the Contracting Officer has authorized their use.

I.27 - FAR 52.215-8 ORDER OF PRECEDENCE – UNIFORM CONTRACT FORMAT
(OCT 1997) (PREV. I.12)

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) The Schedule (excluding the specifications).
- (b) Representations and other instructions.
- (c) Contract clauses.
- (d) Other documents, exhibits, and attachments.
- (e) The specifications.

**I.28 - FAR 52.215-12 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA
(MAY 2018) (DEVIATION PF 2018-30) (PREV. I.13)**

- (a) Unless an exception under FAR 15.403-1 applies, the Contractor shall require the subcontractor to submit certified cost or pricing data (actually or by specific identification in writing), in accordance with FAR 15.408, Table 15-2 (to include any information reasonably required to explain the subcontractor's estimating process such as the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data, and the nature and amount of any contingencies included in the price) –
 - (1) Before awarding any subcontract expected to exceed \$750,000 prior to July 1, 2018, or modifying any subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or
 - (2) Before awarding any subcontract expected to exceed \$2 million on or after July 1, 2018, or modifying any subcontract that was awarded on or after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million.
- (b) The Contractor shall require the subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (a) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (c) In each subcontract that exceeds the threshold for submission of certified cost or pricing data at FAR 15.403-4, when entered into, the Contractor shall insert either—
 - (1) The substance of this clause, including this paragraph (c), if paragraph (a) of this clause requires submission of certified cost or pricing data for the subcontract; or
 - (2) The substance of the clause at FAR 52.215-13, Subcontractor Certified Cost or Pricing Data—Modifications (DEVIATION 2018-O0015).

**I.29 - FAR 52.215-13 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA –
MODIFICATIONS (MAY 2018) (DEVIATION PF 2018-30) (PREV. I.14)**

- (a) The requirements of paragraphs (b) and (c) of this clause shall—
 - (1) Become operative only for any modification of a subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or any modification of a subcontract that awarded on or

after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million; and

- (2) Be limited to such modifications.
- (b) Unless an exception under FAR 15.403-1 applies, the Contractor shall require the subcontractor to submit certified cost or pricing data (actually or by specific identification in writing), in accordance with FAR 15.408, Table 15-2 (to include any information reasonably required to explain the subcontractor's estimating process such as the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data, and the nature and amount of any contingencies included in the price)—
 - (1) Before modifying any subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or
 - (2) Before modifying any subcontract that was awarded on or after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million.
- (c) The Contractor shall require the subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (b) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in each subcontract that exceeds \$2 million.

I.30- FAR 52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (OCT 2010) (PREV. I.168)

- (a) The Contractor shall promptly notify the Contracting Officer in writing when it determines that it will terminate a defined-benefit pension plan or otherwise recapture such pension fund assets.
- (b) For segment closings, pension plan terminations, or curtailment of benefits, the amount of the adjustment shall be—
 - (1) For contracts and subcontracts that are subject to full coverage under the Cost Accounting Standards (CAS) Board rules and regulations (48 CFR Chapter 99), the amount measured, assigned, and allocated in accordance with 48 CFR 9904.413-50(c)(12); and
 - (2) For contracts and subcontracts that are not subject to full coverage under the CAS, the amount measured, assigned, and allocated in accordance

with 48 CFR 9904.413-50(c)(12), except the numerator of the fraction at 48 CFR 9904.413-50(c)(12)(vi) shall be the sum of the pension plan costs allocated to all non-CAS covered contracts and subcontracts that are subject to Federal Acquisition Regulation (FAR) subpart 31.2 or for which certified cost or pricing data were submitted.

- (c) For all other situations where assets revert to the Contractor, or such assets are constructively received by it for any reason, the Contractor shall, at the Government's option, make a refund or give a credit to the Government for its equitable share of the gross amount withdrawn. The Government's equitable share shall reflect the Government's participation in pension costs through those contracts for which certified cost or pricing data were submitted or that are subject to FAR subpart 31.2.
- (d) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(g).

I.31 - FAR 52.215-17 WAIVER OF FACILITIES CAPITAL COST OF MONEY (OCT 1997) (PREV. I.116)

The Contractor did not include facilities capital cost of money as a proposed cost of this contract. Therefore, it is an unallowable cost under this contract.

I.32 - FAR 52.215-21 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA – MODIFICATIONS (OCT 2010) (PREV. I.149)

- (a) *Exceptions from certified cost or pricing data.*
 - (1) In lieu of submitting certified cost or pricing data for modifications under this contract, for price adjustments expected to exceed the threshold set forth at FAR 15.403-4 on the date of the agreement on price or the date of the award, whichever is later, the Contractor may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable -
 - (i) *Identification of the law or regulation establishing the price offered.* If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) *Information on modifications of contracts or subcontracts for commercial items.*

(A) If --

- (1) The original contract or subcontract was granted an exception from certified cost or pricing data requirements because the price agreed upon was based on adequate price competition or prices set by law or regulation, or was a contract or subcontract for the acquisition of a commercial item; and
- (2) The modification (to the contract or subcontract) is not exempted based on one of these exceptions, then the Contractor may provide information to establish that the modification would not change the contract or subcontract from a contract or subcontract for the acquisition of a commercial item to a contract or subcontract for the acquisition of an item other than a commercial item.

(B) For a commercial item exception, the Contractor shall provide, at a minimum, information on prices at which the same item or similar items have previously been sold that is adequate for evaluating the reasonableness of the price of the modification. Such information may include --

- (1) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities.
- (2) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.

- (3) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.
 - (2) The Contractor grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this clause, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the Contractor's determination of the prices to be offered in the catalog or marketplace.
- (b) *Requirements for certified cost or pricing data.* If the Contractor is not granted an exception from the requirement to submit certified cost or pricing data, the following applies:
- (1) The Contractor shall submit certified cost or pricing data, data other than certified cost or pricing data, and supporting attachments in accordance with the instruction contained in Table 15-2 of FAR 15.408, which is incorporated by reference with the same force and effect as though it were inserted here in full text. The instructions in Table 15-2 are incorporated as a mandatory format to be used in this contract, unless the Contracting Officer and the Contractor agree to a different format and change this clause to use Alternate I.
 - (2) As soon as practicable after agreement on price, but before award (except for unpriced actions), the Contractor shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

I.33 - FAR 52.215-23 LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009)
(PREV. I.129)

- (a) *Definitions.* As used in this clause—

Added value means that the Contractor performs subcontract management functions that the Contracting Officer determines are a benefit to the Government (e.g., processing orders of parts or services, maintaining inventory, reducing delivery lead times, managing multiple sources for contract requirements, coordinating deliveries, performing quality assurance functions).

Excessive pass-through charge, with respect to a Contractor or subcontractor that adds no or negligible value to a contract or subcontract, means a charge to the Government by the Contractor or subcontractor that is for indirect costs or profit/fee on work performed by a subcontractor (other than charges for the costs

of managing subcontracts and any applicable indirect costs and associated profit/fee based on such costs).

No or negligible value means the Contractor or subcontractor cannot demonstrate to the Contracting Officer that its effort added value to the contract or subcontract in accomplishing the work performed under the contract (including task or delivery orders).

Subcontract means any contract, as defined in FAR 2.101, entered into by a subcontractor to furnish supplies or services for performance of the contract or a subcontract. It includes but is not limited to purchase orders, and change s and modifications to purchase orders.

Subcontractor, as defined in FAR 44.101, means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime Contractor or another subcontractor.

- (b) *General.* The Government will not pay excessive pass-through charges. The Contracting Officer shall determine if excessive pass-through charges exist.
- (c) *Reporting.* Required reporting of performance of work by the Contractor or a subcontractor. The Contractor shall notify the Contracting Officer in writing if—
 - (1) The Contractor changes the amount of subcontract effort after award such that it exceeds 70 percent of the total cost of work to be performed under the contract, task order, or delivery order. The notification shall identify the revised cost of the subcontract effort and shall include verification that the Contractor will provide added value; or
 - (2) Any subcontractor changes the amount of lower-tier subcontractor effort after award such that it exceeds 70 percent of the total cost of the work to be performed under its subcontract. The notification shall identify the revised cost of the subcontract effort and shall include verification that the subcontractor will provide added value as related to the work to be performed by the lower-tier subcontractor(s).
- (d) *Recovery of excessive pass-through charges.* If the Contracting Officer determines that excessive pass-through charges exist;
 - (1) For other than fixed-price contracts, the excessive pass-through charges are unallowable in accordance with the provisions in FAR subpart 31.2; and
 - (2) For applicable DoD fixed-price contracts, as identified in 15.408(n)(2)(i)(B), the Government shall be entitled to a price reduction for

the amount of excessive pass-through charges included in the contract price.

(e) *Access to records.*

- (1) The Contracting Officer, or authorized representative, shall have the right to examine and audit all the Contractor's records (as defined at FAR 52.215-2(a)) necessary to determine whether the Contractor proposed, billed, or claimed excessive pass-through charges.
- (2) For those subcontracts to which paragraph (f) of this clause applies, the Contracting Officer, or authorized representative, shall have the right to examine and audit all the subcontractor's records (as defined at FAR 52.215-2(a)) necessary to determine whether the subcontractor proposed, billed, or claimed excessive pass-through charges.

(f) *Flowdown.* The Contractor shall insert the substance of this clause, including this paragraph (f), in all cost-reimbursement subcontracts under this contract that exceed the simplified acquisition threshold, except if the contract is with DoD, then insert in all cost-reimbursement subcontracts and fixed-price subcontracts, except those identified in 15.408(n)(2)(i)(B)(2), that exceed the threshold for obtaining cost or pricing data in accordance with FAR 15.403-4.

I.34 - FAR 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (OCT 2018)
(PREV. I.15)

(a) *Definitions.* As used in this contract—

HUBZone small business concern means a small business concern, certified by the Small Business Administration, that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

Service-disabled veteran-owned small business concern—

- (1) Means a small business concern—
 - (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
 - (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case

of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

Small business concern means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

Small disadvantaged business concern, consistent with 13 CFR 124.1002, means a small business concern under the size standard applicable to the acquisition, that—

- (1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by—
- (i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and
 - (ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (2) The management and daily business operations of which are controlled (as defined at 13.CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.

Veteran-owned small business concern means a small business concern—

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

Women-owned small business concern means a small business concern—

- (1) That is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

- (2) Whose management and daily business operations are controlled by one or more women.
- (b) It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.
- (c) The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.
- (d)
 - (1) The Contractor may accept a subcontractor's written representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business if the subcontractor represents that the size and socioeconomic status representations with its offer are current, accurate, and complete as of the date of the offer for the subcontract.
 - (2) The Contractor may accept a subcontractor's representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business in the System for Award Management (SAM) if–
 - (i) The subcontractor is registered in SAM; and
 - (ii) The subcontractor represents that the size and socioeconomic status representations made in SAM are current, accurate and complete as of the date of the offer for the subcontract.

- (3) The Contractor may not require the use of SAM for the purposes of representing size or socioeconomic status in connection with a subcontract.
- (4) In accordance with 13 CFR 121.411, 124.1015, 125.29, 126.900, and 127.700, a contractor acting in good faith is not liable for misrepresentations made by its subcontractors regarding the subcontractor's size or socioeconomic status.
- (5) The Contractor shall confirm that a subcontractor representing itself as a HUBZone small business concern is certified by SBA as a HUBZone small business concern by accessing the System for Award Management or by contacting the SBA. Options for contacting the SBA include—
 - (i) HUBZone small business database search application web page at http://dsbs.sba.gov/dsbs/search/dsp_searchhubzone.cfm; or <http://www.sba.gov/hubzone>;
 - (ii) In writing to the Director/HUB, U.S. Small Business Administration, 409 3rd Street, SW., Washington, DC 20416; or
 - (iii) The SBA HUBZone Help Desk at hubzone@sba.gov.

I.35 - FAR 52.219-9 SMALL BUSINESS SUBCONTRACTING PLAN (AUG 2018)
(DEVIATION PF 2018-17) (PREV. I.16)

- (a) This clause does not apply to small business concerns.
- (b) *Definitions.* As used in this clause—

Alaska Native Corporation (ANC) means any Regional Corporation, Village Corporation, Urban Corporation, or Group Corporation organized under the laws of the State of Alaska in accordance with the Alaska Native Claims Settlement Act, as amended (43 U.S.C. 1601, *et seq.*) and which is considered a minority and economically disadvantaged concern under the criteria at 43 U.S.C. 1626(e)(1). This definition also includes ANC direct and indirect subsidiary corporations, joint ventures, and partnerships that meet the requirements of 43 U.S.C. 1626 (e)(2).

Commercial item means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

Commercial plan means a subcontracting plan (including goals) that covers the offeror's fiscal year and that applies to the entire production of commercial items

sold by either the entire company or a portion thereof (e.g., division, plant, or product line).

Electronic Subcontracting Reporting System (eSRS) means the Governmentwide, electronic, web-based system for small business subcontracting program reporting. The eSRS is located at <http://www.esrs.gov>.

Indian tribe means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act (43 U.S.C.A. 1601 *et seq.*), that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs in accordance with 25 U.S.C. 1452(c). This definition also includes Indian-owned economic enterprises that meet the requirements of 25 U.S.C. 1452(e).

Individual subcontracting plan means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offeror's planned subcontracting in support of the specific contract, except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

Master subcontracting plan means a subcontracting plan that contains all the required elements of an individual subcontracting plan, except goals, and may be incorporated into individual subcontracting plans, provided the master subcontracting plan has been approved.

Reduced payment means a payment that is for less than the amount agreed upon in a subcontract in accordance with its terms and conditions, for supplies and services for which the Government has paid the prime contractor.

Subcontract means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

Total contract dollars means the final anticipated dollar value, including the dollar value of all options.

Untimely payment means a payment to a subcontractor that is more than 90 days past due under the terms and conditions of a subcontract for supplies and services for which the Government has paid the prime contractor.

(c)

- (1) The Offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately

addresses subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns. If the Offeror is submitting an individual subcontracting plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns, with a separate part for the basic contract and separate parts for each option (if any). The subcontracting plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the Offeror ineligible for award of a contract.

(2)

- (i) The Contractor may accept a subcontractor's written representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business if the subcontractor represents that the size and socioeconomic status representations with its offer are current, accurate, and complete as of the date of the offer for the subcontract.
- (ii) The Contractor may accept a subcontractor's representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business in the System for Award Management (SAM) if--
 - (A) The subcontractor is registered in SAM; and
 - (B) The subcontractor represents that the size and socioeconomic status representations made in SAM are current, accurate and complete as of the date of the offer for the subcontract.
- (iii) The Contractor may not require the use of SAM for the purposes of representing size or socioeconomic status in connection with a subcontract.
- (iv) In accordance with 13 CFR 121.411, 124.1015, 125.29, 126.900, and 127.700, a contractor acting in good faith is not liable for misrepresentations made by its subcontractors regarding the subcontractor's size or socioeconomic status.

- (d) The Offeror's subcontracting plan shall include the following:
- (1) Separate goals, expressed in terms of total dollars subcontracted, and as a percentage of total planned subcontracting dollars, for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. For individual subcontracting plans, and if required by the Contracting Officer, goals shall also be expressed in terms of percentage of total contract dollars, in addition to the goals expressed as a percentage of total subcontract dollars. The Offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs. In accordance with 43 U.S.C. 1626--
 - (i) Subcontracts awarded to an ANC or Indian tribe shall be counted towards the subcontracting goals for small business and small disadvantaged business concerns, regardless of the size or Small Business Administration certification status of the ANC or Indian tribe; and
 - (ii) Where one or more subcontractors are in the subcontract tier between the prime Contractor and the ANC or Indian tribe, the ANC or Indian tribe shall designate the appropriate Contractor(s) to count the subcontract towards its small business and small disadvantaged business subcontracting goals.
 - (A) In most cases, the appropriate Contractor is the Contractor that awarded the subcontract to the ANC or Indian tribe.
 - (B) If the ANC or Indian tribe designates more than one Contractor to count the subcontract toward its goals, the ANC or Indian tribe shall designate only a portion of the total subcontract award to each Contractor. The sum of the amounts designated to various Contractors cannot exceed the total value of the subcontract.
 - (C) The ANC or Indian tribe shall give a copy of the written designation to the Contracting Officer, the prime Contractor, and the subcontractors in between the prime Contractor and the ANC or Indian tribe within 30 days of the date of the subcontract award.
 - (D) If the Contracting Officer does not receive a copy of the ANC's or the Indian tribe's written designation within 30 days of the subcontract award, the Contractor that awarded the

subcontract to the ANC or Indian tribe will be considered the designated Contractor.

- (2) A statement of—
 - (i) Total dollars planned to be subcontracted for an individual subcontracting plan; or the Offeror's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;
 - (ii) Total dollars planned to be subcontracted to small business concerns (including ANC and Indian tribes);
 - (iii) Total dollars planned to be subcontracted to veteran-owned small business concerns;
 - (iv) Total dollars planned to be subcontracted to service-disabled veteran-owned small business;
 - (v) Total dollars planned to be subcontracted to HUBZone small business concerns;
 - (vi) Total dollars planned to be subcontracted to small disadvantaged business concerns (including ANCs and Indian tribes); and
 - (vii) Total dollars planned to be subcontracted to women-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to --
 - (i) Small business concerns,
 - (ii) Veteran-owned small business concerns;
 - (iii) Service-disabled veteran-owned small business concerns;
 - (iv) HUBZone small business concerns;
 - (v) Small disadvantaged business concerns, and
 - (vi) Women-owned small business concerns.
- (4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.

- (5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, SAM, veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in SAM as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, service-disabled veteran-owned small, HUBZone small, small disadvantaged, and women-owned small business source list. Use of SAM as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.
- (6) A statement as to whether or not the Offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with --
- (i) Small business concerns (including ANC and Indian tribes);
 - (ii) Veteran-owned small business concerns;
 - (iii) Service-disabled veteran-owned small business concerns;
 - (iv) HUBZone small business concerns;
 - (v) Small disadvantaged business concerns (including ANC and Indian tribes); and
 - (vi) Women-owned small business concerns.
- (7) The name of the individual employed by the Offeror who will administer the Offeror's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts the Offeror will make to assure that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns have an equitable opportunity to compete for subcontracts.
- (9) Assurances that the Offeror will include the clause of this contract entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that the Offeror will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$700,000 (\$1.5 million for construction of any

public facility) with further subcontracting possibilities to adopt a subcontracting plan that complies with the requirements of this clause.

(10) Assurances that the Offeror will --

- (i) Cooperate in any studies or surveys as may be required;
- (ii) Submit periodic reports so that the Government can determine the extent of compliance by the Offeror with the subcontracting plan;
- (iii) After November 30, 2017, include subcontracting data for each order when reporting subcontracting achievements for indefinite-delivery, indefinite-quantity contracts with individual subcontracting plans where the contract is intended for use by multiple agencies;
- (iv) Submit the Individual Subcontract Report (ISR) and/or the Summary Subcontract Report (SSR), in accordance with paragraph (I) of this clause using the Electronic Subcontracting Reporting System (eSRS) at <http://www.esrs.gov>. The reports shall provide information on subcontract awards to small business concerns (including ANCs and Indian tribes that are not small businesses), veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns (including ANCs and Indian tribes that have not been certified by SBA as small disadvantaged businesses), women-owned small business concerns, and for NASA only, Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with this clause, or as provided in agency regulations;
- (v) Ensure that its subcontractors with subcontracting plans agree to submit the ISR and/or the SSR using eSRS;
- (vi) Provide its prime contract number, its unique entity identifier, and the email address of the Offeror's official responsible for acknowledging receipt of or rejecting the ISRs, to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their ISRs; and
- (vii) Require that each subcontractor with a subcontracting plan provide the prime contract number, its own unique entity identifier, and the email address of the subcontractor's official responsible for acknowledging receipt of or rejecting the ISRs, to its subcontractors with subcontracting plans.

- (11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror's efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):
- (i) Source lists (e.g., SAM), guides, and other data that identify small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.
 - (ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.
 - (iii) Records on each subcontract solicitation resulting in an award of more than \$250,000, indicating –
 - (A) Whether small business concerns were solicited and if not, why not;
 - (B) Whether veteran-owned small business concerns were solicited and, if not, why not;
 - (C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;
 - (D) Whether HUBZone small business concerns were solicited and, if not, why not;
 - (E) Whether small disadvantaged business concerns were solicited and if not, why not;
 - (F) Whether women-owned small business concerns were solicited and if not, why not; and
 - (G) If applicable, the reason award was not made to a small business concern.

- (iv) Records of any outreach efforts to contact --
 - (A) Trade associations;
 - (B) Business development organizations;
 - (C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, service-disabled veteran-owned, and women-owned small business sources; and
 - (D) Veterans service organizations.
- (v) Records of internal guidance and encouragement provided to buyers through --
 - (A) Workshops, seminars, training, etc., and
 - (B) Monitoring performance to evaluate compliance with the program's requirements.
- (vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.
- (12) Assurances that the Offeror will make a good faith effort to acquire articles, equipment, supplies, services, or materials, or obtain the performance of construction work from the small business concerns that it used in preparing the bid or proposal, in the same or greater scope, amount, and quality used in preparing and submitting the bid or proposal. Responding to a request for a quote does not constitute use in preparing a bid or proposal. The Offeror used a small business concern in preparing the bid or proposal if--
 - (i) The Offeror identifies the small business concern as a subcontractor in the bid or proposal or associated small business subcontracting plan, to furnish certain supplies or perform a portion of the subcontract; or
 - (ii) The Offeror used the small business concern's pricing or cost information or technical expertise in preparing the bid or proposal, where there is written evidence of an intent or understanding that the small business concern will be awarded a subcontract for the related work if the Offeror is awarded the contract.

- (13) Assurances that the Contractor will provide the Contracting Officer with a written explanation if the Contractor fails to acquire articles, equipment, supplies, services or materials or obtain the performance of construction work as described in (d)(12) of this clause. This written explanation must be submitted to the Contracting Officer within 30 days of contract completion.
 - (14) Assurances that the Contractor will not prohibit a subcontractor from discussing with the Contracting Officer any material matter pertaining to payment to or utilization of a subcontractor.
 - (15) Assurances that the offeror will pay its small business subcontractors on time and in accordance with the terms and conditions of the underlying subcontract, and notify the contracting officer when the prime contractor makes either a reduced or an untimely payment to a small business subcontractor (see 52.242-5).
- (e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:
- (1) Assist small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.
 - (2) Provide adequate and timely consideration of the potentialities of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.
 - (3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.
 - (4) Confirm that a subcontractor representing itself as a HUBZone small business concern is certified by SBA as a HUBZone small business concern in accordance with 52.219-8(d)(2).

- (5) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owned small business, HUBZone small, small disadvantaged or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.
 - (6) For all competitive subcontracts over the simplified acquisition threshold in which a small business concern received a small business preference, upon determination of the successful subcontract offeror, prior to award of the subcontract the Contractor must inform each unsuccessful small business subcontract offeror in writing of the name and location of the apparent successful offeror and if the successful subcontract offeror is a small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concern.
 - (7) Assign each subcontract the NAICS code and corresponding size standard that best describes the principal purpose of the subcontract.
- (f) A master subcontracting plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the Offeror by this clause; provided --
- (1) The master subcontracting plan has been approved;
 - (2) The Offeror ensures that the master subcontracting plan is updated as necessary and provides copies of the approved master subcontracting plan, including evidence of its approval, to the Contracting Officer; and
 - (3) Goals and any deviations from the master subcontracting plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.
- (g) A commercial plan is the preferred type of subcontracting plan for contractors furnishing commercial items. The commercial plan shall relate to the offeror's planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Once the Contractor's commercial plan has been approved, the Government will not require another subcontracting plan from the same Contractor while the plan remains in effect, as long as the product or service being provided by the Contractor continues to meet the definition of a commercial item. A contractor with a commercial plan shall comply with the reporting requirements stated in paragraph (d)(10) of this clause by submitting one SSR in eSRS for all contracts covered by its commercial plan. This report shall be acknowledged or rejected in eSRS by the

Contracting Officer who approved the plan. This report shall be submitted within 30 days after the end of the Government's fiscal year.

- (h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.
- (i) A contract may have no more than one subcontracting plan. When a modification exceeds the subcontracting plan threshold in 19.702(a), or an option is exercised, the goals of the existing subcontracting plan shall be amended to reflect any new subcontracting opportunities. When the goals in a subcontracting plan are amended, these goal changes do not apply retroactively.
- (j) Subcontracting plans are not required from subcontractors when the prime contract contains the clause at 52.212-5, Contract Terms and Conditions Required to Implement Statutes or Executive Orders—Commercial Items, or when the subcontractor provides a commercial item subject to the clause at 52.244-6, Subcontracts for Commercial Items, under a prime contract.
- (k) The failure of the Contractor or subcontractor to comply in good faith with (1) the clause of this contract entitled "Utilization Of Small Business Concerns," or (2) an approved plan required by this clause, shall be a material breach of the contract and may be considered in any past performance evaluation of the Contractor.
- (l) The Contractor shall submit ISRs and SSRs using the web-based eSRS at <http://www.esrs.gov>. Purchases from a corporation, company, or subdivision that is an affiliate of the Contractor or subcontractor are not included in these reports. Subcontract awards by affiliates shall be treated as subcontract awards by the Contractor. Subcontract award data reported by the Contractor and subcontractors shall be limited to awards made to their immediate next-tier subcontractors. Credit cannot be taken for awards made to lower tier subcontractors, unless the Contractor or subcontractor has been designated to receive a small business or small disadvantaged business credit from an ANC or Indian tribe. Only subcontracts involving performance in the United States or its outlying areas should be included in these reports with the exception of subcontracts under a contract awarded by the State Department or any other agency that has statutory or regulatory authority to require subcontracting plans for subcontracts performed outside the United States and its outlying areas.
 - (1) *ISR*. This report is not required for commercial plans. The report is required for each contract containing an individual subcontract plan.
 - (i) The report shall be submitted semi-annually during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each

reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract or the previous reporting period. When the Contracting Officer rejects an ISR, the Contractor shall submit a corrected report within 30 days of receiving the notice of ISR rejection.

(ii)

(A) When a subcontracting plan contains separate goals for the basic contract and each option, as prescribed by FAR 19.704(c), the dollar goal inserted on this report shall be the sum of the base period through the current option; for example, for a report submitted after the second option is exercised, the dollar goal would be the sum of the goals for the basic contract, the first option, and the second option.

(B) If a subcontracting plan has been added to the contract pursuant to 19.702(a)(3) or 19.301-2(e), the Contractor's achievements must be reported in the ISR on a cumulative basis from the date of incorporation of the subcontracting plan into the contract.

(iii) When a subcontracting plan includes indirect costs in the goals, these costs must be included in this report.

(iv) The authority to acknowledge receipt or reject the ISR resides—

(A) In the case of the prime Contractor, with the Contracting Officer; and

(B) In the case of a subcontract with a subcontracting plan, with the entity that awarded the subcontract.

(2) SSR.

(i) Reports submitted under individual contract plans.

(A) This report encompasses all subcontracting under prime contracts and subcontracts with an executive agency, regardless of the dollar value of the subcontracts. This report also includes indirect costs on a prorated basis when the indirect costs are excluded from the subcontracting goals.

- (B) The report may be submitted on a corporate, company or subdivision (e.g. plant or division operating as a separate profit center) basis, unless otherwise directed by the agency.
 - (C) If the Contractor or a subcontractor is performing work for more than one executive agency, a separate report shall be submitted to each executive agency covering only that agency's contracts, provided at least one of that agency's contracts is over \$700,000 (over \$1.5 million for construction of a public facility) and contains a subcontracting plan. For DoD, a consolidated report shall be submitted for all contracts awarded by military departments/agencies and/or subcontracts awarded by DoD prime contractors.
 - (D) The report shall be submitted annually by October 30 for the twelve month period ending September 30. When a Contracting Officer rejects an SSR, the Contractor shall submit a revised report within 30 days of receiving the notice of SSR rejection.
 - (E) Subcontract awards that are related to work for more than one executive agency shall be appropriately allocated.
 - (F) The authority to acknowledge or reject SSRs in eSRS, including SSRs submitted by subcontractors with subcontracting plans, resides with the Government agency awarding the prime contracts unless stated otherwise in the contract.
- (ii) Reports submitted under a commercial plan.
- (A) The report shall include all subcontract awards under the commercial plan in effect during the Government's fiscal year and all indirect costs.
 - (B) The report shall be submitted annually, within thirty days after the end of the Government's fiscal year.
 - (C) If a Contractor has a commercial plan and is performing work for more than one executive agency, the Contractor shall specify the percentage of dollars attributable to each agency.
 - (D) The authority to acknowledge or reject SSRs for commercial plans resides with the Contracting Officer who approved the commercial plan.

I.36 - FAR 52.219-16 LIQUIDATED DAMAGES – SUBCONTRACTING PLAN (JAN 1999) (PREV. I.17)

- (a) Failure to make a good faith effort to comply with the subcontracting plan, as used in this clause, means a willful or intentional failure to perform in accordance with the requirements of the subcontracting plan approved under the clause in this contract entitled "Small Business Subcontracting Plan," or willful or intentional action to frustrate the plan.
- (b) Performance shall be measured by applying the percentage goals to the total actual subcontracting dollars or, if a commercial plan is involved, to the pro rata share of actual subcontracting dollars attributable to Government contracts covered by the commercial plan. If, at contract completion, or in the case of a commercial plan, at the close of the fiscal year for which the plan is applicable, the Contractor has failed to meet its subcontracting goals and the Contracting Officer decides in accordance with paragraph (c) of this clause that the Contractor failed to make a good faith effort to comply with its subcontracting plan, established in accordance with the clause in this contract entitled, "Small Business Subcontracting Plan", the Contractor shall pay the Government liquidated damages in an amount stated. The amount of probable damages attributable to the Contractor's failure to comply shall be an amount equal to the actual dollar amount by which the Contractor failed to achieve each subcontract goal.
- (c) Before the Contracting Officer makes a final decision that the Contractor has failed to make such good faith effort, the Contracting Officer shall give the Contractor written notice specifying the failure and permitting the Contractor to demonstrate what good faith efforts have been made and to discuss the matter. Failure to respond to the notice may be taken as an admission that no valid explanation exists. If, after consideration of all the pertinent data, the Contracting Officer finds that the Contractor failed to make a good faith effort to comply with the subcontracting plan, the Contracting Officer shall issue a final decision to that effect and require that the Contractor pay the Government liquidated damages as provided in paragraph (b) of this clause.
- (d) With respect to commercial plans, the Contracting Officer who approved the plan will perform the functions of the Contracting Officer under this clause on behalf of all agencies with contracts covered by the commercial plan.
- (e) The Contractor shall have the right of appeal, under the clause in this contract entitled, Disputes, from any final decision of the Contracting Officer.
- (f) Liquidated damages shall be in addition to any other remedies that the Government may have.

I.37 - FAR 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM
REREPRESENTATION (JUL 2013) (PREV. I.131)

(a) *Definitions.* As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (c) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

- (1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.
- (2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.
- (3) For long-term contracts—
 - (i) Within 60 to 120 days prior to the end of the fifth year of the contract; and
 - (ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

- (c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/content/table-small-business-size-standards>.
- (d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.
- (e) Except as provided in paragraph (g) of this clause, the Contractor shall make the representation required by paragraph (b) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.
- (f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.
- (g) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it ____ is, ____ is not a small business concern under NAICS Code _____ assigned to contract number _____.

[Contractor to sign and date and insert authorized signer's name and title].

I.38 - FAR 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997) (PREV. I.19)

If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

I.39 - FAR 52.222-3 CONVICT LABOR (JUN 2003) (PREV. I.20)

- (a) Except as provided in paragraph (b) of this clause, the Contractor shall not employ in the performance of this contract any person undergoing a sentence of imprisonment imposed by any court of a State, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands.
- (b) The Contractor is not prohibited from employing persons –
 - (1) On parole or probation to work at paid employment during the term of their sentence;
 - (2) Who have been pardoned or who have served their terms; or
 - (3) Confined for violation of the laws of any of the States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if –
 - (i) The worker is paid or is in an approved work training program on a voluntary basis;
 - (ii) Representatives of local union central bodies or similar labor union organizations have been consulted;
 - (iii) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services;
 - (iv) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
 - (v) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

I.40 - FAR 52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS – OVERTIME COMPENSATION (MAY 2018) (PREV. I.21)

- (a) Overtime requirements. No Contractor or subcontractor employing laborers or mechanics (see Federal Acquisition Regulation 22.300) shall require or permit

them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.

- (b) Violation; liability for unpaid wages; liquidated damages. The responsible Contractor and subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate specified at 29 CFR 5.5(b)(2) per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without paying overtime wages required by the Contract Work Hours and Safety Standards statute (found at 40 U.S.C. chapter 37). In accordance with the Federal Civil Penalties Inflation Adjustment Act of 1990 (28 U.S.C. 2461 Note), the Department of Labor adjusts this civil monetary penalty for inflation no later than January 15 each year.
- (c) Withholding for unpaid wages and liquidated damages. The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or subcontractor liabilities for unpaid wages and liquidated damages. If amounts withheld under the contract are insufficient to satisfy Contractor or subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards statute.
- (d) Payrolls and basic records.
 - (1) The Contractor and its subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Construction Wage Rate Requirements statute.
 - (2) The Contractor and its subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or subcontractor also shall allow authorized representatives of the Contracting Officer or Department of Labor to interview employees in the workplace during working hours.

- (e) Subcontracts. The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts that may require or involve the employment of laborers and mechanics and require subcontractors to include these provisions in any such lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

I.41 - FAR 52.222-11 SUBCONTRACTS (LABOR STANDARDS) (MAY 2014) (PREV. I.22)

- (a) *Definition.* "Construction, alteration or repair," as used in this clause means all types of work done by laborers and mechanics employed by the construction Contractor or construction subcontractor on a particular building or work at the site thereof, including without limitation—
 - (1) Altering, remodeling, installation (if appropriate) on the site of the work of items fabricated off-site;
 - (2) Painting and decorating;
 - (3) Manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work;
 - (4) Transportation of materials and supplies between the site of the work within the meaning of paragraphs (a)(1)(i) and (ii) of the "site of the work" as defined in the FAR clause at 52.222-6, Construction Wage Rate Requirements of this contract, and a facility which is dedicated to the construction of the building or work and is deemed part of the site of the work within the meaning of paragraph (2) of the "site of the work" definition; and
 - (5) Transportation of portions of the building or work between a secondary site where a significant portion of the building or work is constructed, which is part of the "site of the work" definition in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Construction Wage Rate Requirements, and the physical place or places where the building or work will remain (paragraph (a)(1)(i) of the FAR clause at 52.222-6, in the "site of the work" definition).
- (b) The Contractor or subcontractor shall insert in any subcontracts for construction, alterations and repairs within the United States the clauses entitled—
 - (1) Construction Wage Rate Requirements;
 - (2) Contract Work Hours and Safety Standards -- Overtime Compensation (if the clause is included in this contract);

- (3) Apprentices and Trainees;
 - (4) Payrolls and Basic Records;
 - (5) Compliance with Copeland Act Requirements;
 - (6) Withholding of Funds;
 - (7) Subcontracts (Labor Standards);
 - (8) Contract Termination – Debarment;
 - (9) Disputes Concerning Labor Standards;
 - (10) Compliance with Construction Wage Rate Requirements and Related Regulations; and
 - (11) Certification of Eligibility.
- (c) The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor performing construction within the United States with all the contract clauses cited in paragraph (b).
- (d) (1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Standard Form (SF) 1413, Statement and Acknowledgment, for each subcontract for construction within the United States, including the subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (b) of this clause have been included in the subcontract.
- (2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.
- (e) The Contractor shall insert the substance of this clause, including this paragraph (e) in all subcontracts for construction within the United States.

I.42 - FAR 52.222-19 CHILD LABOR—COOPERATION WITH AUTHORITIES AND REMEDIES (OCT 2019) (PREV. I.167)

- (a) *Applicability.* This clause does not apply to the extent that the Contractor is supplying end products mined, produced, or manufactured in—
- (1) Canada, and the anticipated value of the acquisition is \$25,000 or more;

- (2) Israel, and the anticipated value of the acquisition is \$50,000 or more;
 - (3) Mexico, and the anticipated value of the acquisition is \$80,317 or more; or
 - (4) Armenia, Aruba, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Italy, Japan, Korea, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Montenegro, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, Ukraine, or the United Kingdom and the anticipated value of the acquisition is \$180,000 or more.
- (b) *Cooperation with Authorities.* To enforce the laws prohibiting the manufacture or importation of products mined, produced, or manufactured by forced or indentured child labor, authorized officials may need to conduct investigations to determine whether forced or indentured child labor was used to mine, produce, or manufacture any product furnished under this contract. If the solicitation includes the provision 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products, or the equivalent at 52.212-3, the Contractor agrees to cooperate fully with authorized officials of the contracting agency, the Department of the Treasury, or the Department of Justice by providing reasonable access to records, documents, persons, or premises upon reasonable request by the authorized officials.
- (c) *Violations.* The Government may impose remedies set forth in paragraph (d) for the following violations:
- (1) The Contractor has submitted a false certification regarding knowledge of the use of forced or indentured child labor for listed end products.
 - (2) The Contractor has failed to cooperate, if required, in accordance with paragraph (b) of this clause, with an investigation of the use of forced or indentured child labor by an Inspector General, Attorney General, or the Secretary of the Treasury.
 - (3) The Contractor uses forced or indentured child labor in its mining, production, or manufacturing processes.
 - (4) The Contractor has furnished under the contract end products or components that have been mined, produced, or manufactured wholly or in part by forced or indentured child labor. (The Government will not pursue remedies at paragraph (d)(2) or paragraph (d)(3) of this clause unless sufficient evidence indicates that the Contractor knew of the violation.)

- (d) *Remedies.* (1) The Contracting Officer may terminate the contract.
- (2) The suspending official may suspend the Contractor in accordance with procedures in FAR Subpart 9.4.
- (3) The debarring official may debar the Contractor for a period not to exceed 3 years in accordance with the procedures in FAR Subpart 9.4.

I.43 - FAR 52.222-21 PROHIBITION OF SEGREGATED FACILITIES (APR 2015)
(PREV. I.23)

- (a) *Definitions.* As used in this clause

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Segregated facilities, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

- (b) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.
- (c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

I.44 - FAR 52.222-26 EQUAL OPPORTUNITY (SEP 2016) (PREV. I.24)

- (a) *Definition.* As used in this clause.

Compensation means any payments made to, or on behalf of, an employee or offered to an applicant as remuneration for employment, including but not limited to salary, wages, overtime pay, shift differentials, bonuses, commissions, vacation and holiday pay, allowances, insurance and other benefits, stock options and awards, profit sharing, and retirement.

Compensation information means the amount and type of compensation provided to employees or offered to applicants, including, but not limited to, the desire of the Contractor to attract and retain a particular employee for the value the employee is perceived to add to the Contractor's profit or productivity; the availability of employees with like skills in the marketplace; market research about the worth of similar jobs in the relevant marketplace; job analysis, descriptions, and evaluations; salary and pay structures; salary surveys; labor union agreements; and Contractor decisions, statements and policies related to setting or altering employee compensation.

Essential job functions means the fundamental job duties of the employment position an individual holds. A job function may be considered essential if—

- (1) The access to compensation information is necessary in order to perform that function or another routinely assigned business task; or
- (2) The function or duties of the position include protecting and maintaining the privacy of employee personnel records, including compensation information.

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

United States, means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.

- (b) (1) If, during any 12-month period (including the 12 months preceding the award of this contract), the Contractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Contractor shall comply with this clause, except for work performed outside the United States by employees who were not recruited within the United States. Upon request, the Contractor shall provide information necessary to determine the applicability of this clause.

- (2) If the Contractor is a religious corporation, association, educational institution, or society, the requirements of this clause do not apply with respect to the employment of individuals of a particular religion to perform work connected with the carrying on of the Contractor's activities (41 CFR 60-1.5).
- (c)
 - (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. However, it shall not be a violation of this clause for the Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
 - (2) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. This shall include, but not be limited to—
 - (i) Employment;
 - (ii) Upgrading;
 - (iii) Demotion;
 - (iv) Transfer;
 - (v) Recruitment or recruitment advertising;
 - (vi) Layoff or termination;
 - (vii) Rates of pay or other forms of compensation; and
 - (viii) Selection for training, including apprenticeship.
 - (3) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
 - (4) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
 - (5)
 - (i) The Contractor shall not discharge or in any other manner discriminate against any employee or applicant for employment

because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This prohibition against discrimination does not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

- (ii) The Contractor shall disseminate the prohibition on discrimination in paragraph (c)(5)(i) of this clause, using language prescribed by the Director of the Office of Federal Contract Compliance Programs (OFCCP), to employees and applicants by—
 - (A) Incorporation into existing employee manuals or handbooks; and
 - (B) Electronic posting or by posting a copy of the provision in conspicuous places available to employees and applicants for employment.
- (6) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (7) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
- (8) The Contractor shall furnish to the contracting agency all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Contractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR Part 60-1. Unless the Contractor has filed within the 12 months preceding the date of contract award, the Contractor shall, within 30 days after contract award, apply to either the regional Office of Federal Contract Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.

- (9) The Contractor shall permit access to its premises, during normal business hours, by the contracting agency or the OFCCP for the purpose of conducting on-site compliance evaluations and complaint investigations. The Contractor shall permit the Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.
 - (10) If the OFCCP determines that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended; in the rules, regulations, and orders of the Secretary of Labor; or as otherwise provided by law.
 - (11) The Contractor shall include the terms and conditions of this clause in every subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor.
 - (12) The Contractor shall take such action with respect to any subcontract or purchase order as the Director of OFCCP may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance, provided, that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of any direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (d) Notwithstanding any other clause in this contract, disputes relative to this clause will be governed by the procedures in 41 CFR part 60-1.

I.45 - FAR 52.222-29 NOTIFICATION OF VISA DENIAL (APR 2015) (PREV. I.25)

- (a) Definitions. As used in this clause-

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

- (b) Requirement to notify.
 - (1) It is a violation of Executive Order 11246 for a Contractor to refuse to employ any applicant or not to assign any person hired in the United States, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, or Wake Island, on the basis that the individual's race, color, religion, sex, sexual orientation, gender identity, or national origin is not compatible with the policies of the country where or for whom the work will be performed (41 CFR 60-1.10).
 - (2) The Contractor shall notify the U.S. Department of State, Assistant Secretary, Bureau of Political-Military Affairs (PM), 2201 C Street NW, Room 6212, Washington, DC 20520, and the U.S. Department of Labor, Deputy Assistant Secretary for Federal Contract Compliance, when it has knowledge of any employee or potential employee being denied an entry visa to a country where this contract will be performed, and it believes the denial is attributable to the race, color, religion, sex, sexual orientation, gender identity, or national origin of the employee or potential employee.

I.46 - FAR 52.222-35 EQUAL OPPORTUNITY FOR VETERANS (OCT 2015) (PREV. I.26)

- (a) *Definitions.* As used in this clause—

“Active duty wartime or campaign badge veteran,” “Armed Forces service medal veteran,” “disabled veteran,” “protected veteran,” “qualified disabled veteran,” and “recently separated veteran” have the meanings given at FAR 22.1301.
- (b) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60-300.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified protected veterans, and requires affirmative action by the Contractor to employ and advance in employment qualified protected veterans.
- (c) Subcontracts. The Contractor shall insert the terms of this clause in subcontracts of \$150,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

I.47 - FAR 52.222-36 EQUAL OPPORTUNITY FOR WORKERS WITH DISABILITIES
(JUL 2014) (PREV. I.27)

- (a) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60.741.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by the contractor to employ, advance in employment qualified individuals with disabilities.
- (b) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$15,000 unless exempted by rules, regulations, or orders of the Secretary, so that such provisions will be binding upon each subcontractor or vendor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs of the U.S. Department of Labor, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

I.48 - FAR 52.222-37 EMPLOYMENT REPORTS ON VETERANS (FEB 2016) (PREV. I.28)

- (a) *Definitions.* As used in this clause, “active duty wartime or campaign badge veteran,” “Armed Forces service medal veteran,” “disabled veteran,” “protected veteran,” and “recently separated veteran,” have the meanings given in FAR 22.1301.
- (b) Unless the Contractor is a State or local government agency, the Contractor shall report at least annually, as required by the Secretary of Labor, on—
 - (1) The total number of employees in the contractor’s workforce, by job category and hiring location, who are protected veterans (i.e., active duty wartime or campaign badge veterans, Armed Forces service medal veterans, disabled veterans, and recently separated veterans);
 - (2) The total number of new employees hired during the period covered by the report, and of the total, the number of protected veterans (i.e., active duty wartime or campaign badge veterans, Armed Forces service medal veterans, disabled veterans, and recently separated veterans); and
 - (3) The maximum number and minimum number of employees of the Contractor or subcontractor at each hiring location during the period covered by the report.
- (c) The Contractor shall report the above items by filing the VETS-4212 “Federal Contractor Veterans’ Employment Report” (see “VETS-4212 Federal Contractor

Reporting” and “Filing Your VETS-4212 Report”
at <http://www.dol.gov/vets/vets4212.htm>).

- (d) The Contractor shall submit VETS-4212 Reports no later than September 30 of each year.
- (e) The employment activity report required by paragraphs (b)(2) and (b)(3) of this clause shall reflect total new hires, and maximum and minimum number of employees, during the most recent 12-month period preceding the ending date selected for the report. Contractors may select an ending date—
 - (1) As of the end of any pay period between July 1 and August 31 of the year the report is due; or
 - (2) As of December 31, if the Contractor has prior written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (f) The number of veterans reported must be based on data known to the contractor when completing the VETS-4212. The contractor’s knowledge of veterans status may be obtained in a variety of ways, including an invitation to applicants to self-identify (in accordance with 41 CFR 60-300.42), voluntary self-disclosure by employees, or actual knowledge of veteran status by the contractor. This paragraph does not relieve an employer of liability for discrimination under 38 U.S.C. 4212.
- (g) The Contractor shall insert the terms of this clause in subcontracts of \$150,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor.

I.49- FAR 52.222-50 COMBATING TRAFFICKING IN PERSONS (JAN 2019) (PREV. I.118)

- (a) *Definitions.* As used in this clause—

Agent means any individual, including a director, an officer, an employee, or an independent contractor, authorized to act on behalf of the organization.

Coercion means—

- (1) Threats of serious harm to or physical restraint against any person;
- (2) Any scheme, plan, or pattern intended to cause a person to believe that failure to perform an act would result in serious harm to or physical restraint against any person; or

- (3) The abuse or threatened abuse of the legal process.

Commercial sex act means any sex act on account of which anything of value is given to or received by any person.

Commercially available off-the-shelf (COTS) item means—

- (1) Any item of supply (including construction material) that is—
- (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Debt bondage means the status or condition of a debtor arising from a pledge by the debtor of his or her personal services or of those of a person under his or her control as a security for debt, if the value of those services as reasonably assessed is not applied toward the liquidation of the debt or the length and nature of those services are not respectively limited and defined.

Employee means an employee of the Contractor directly engaged in the performance of work under the contract who has other than a minimal impact or involvement in contract performance.

Forced Labor means knowingly providing or obtaining the labor or services of a person—

- (1) By threats of serious harm to, or physical restraint against, that person or another person;
- (2) By means of any scheme, plan, or pattern intended to cause the person to believe that, if the person did not perform such labor or services, that person or another person would suffer serious harm or physical restraint; or
- (3) By means of the abuse or threatened abuse of law or the legal process.

Involuntary servitude includes a condition of servitude induced by means of—

- (1) Any scheme, plan, or pattern intended to cause a person to believe that, if the person did not enter into or continue in such conditions, that person or another person would suffer serious harm or physical restraint; or
- (2) The abuse or threatened abuse of the legal process.

Recruitment fees means fees of any type, including charges, costs, assessments, or other financial obligations, that are associated with the recruiting process, regardless of the time, manner, or location of imposition or collection of the fee.

- (1) Recruitment fees include, but are not limited to, the following fees (when they are associated with the recruiting process) for—
 - (i) Soliciting, identifying, considering, interviewing, referring, retaining, transferring, selecting, training, providing orientation to, skills testing, recommending, or placing employees or potential employees;
 - (ii) Advertising;
 - (iii) Obtaining permanent or temporary labor certification, including any associated fees;
 - (iv) Processing applications and petitions;
 - (v) Acquiring visas, including any associated fees;
 - (vi) Acquiring photographs and identity or immigration documents, such as passports, including any associated fees;
 - (vii) Accessing the job opportunity, including required medical examinations and immunizations; background, reference, and security clearance checks and examinations; and additional certifications;
 - (viii) An employer's recruiters, agents or attorneys, or other notary or legal fees;
 - (ix) Language interpretation or translation, arranging for or accompanying on travel, or providing other advice to employees or potential employees;

- (x) Government-mandated fees, such as border crossing fees, levies, or worker welfare funds;
- (xi) Transportation and subsistence costs—
 - (A) While in transit, including, but not limited to, airfare or costs of other modes of transportation, terminal fees, and travel taxes associated with travel from the country of origin to the country of performance and the return journey upon the end of employment; and
 - (B) From the airport or disembarkation point to the worksite;
- (xii) Security deposits, bonds, and insurance; and
- (xiii) Equipment charges.
- (2) A recruitment fee, as described in the introductory text of this definition, is a recruitment fee, regardless of whether the payment is—
 - (i) Paid in property or money;
 - (ii) Deducted from wages;
 - (iii) Paid back in wage or benefit concessions;
 - (iv) Paid back as a kickback, bribe, in-kind payment, free labor, tip, or tribute; or
 - (v) Collected by an employer or a third party, whether licensed or unlicensed, including, but not limited to—
 - (A) Agents;
 - (B) Labor brokers;
 - (C) Recruiters;
 - (D) Staffing firms (including private employment and placement firms);
 - (E) Subsidiaries/affiliates of the employer;

- (F) Any agent or employee of such entities; and
- (G) Subcontractors at all tiers.

Severe forms of trafficking in persons means—

- (1) Sex trafficking in which a commercial sex act is induced by force, fraud, or coercion, or in which the person induced to perform such act has not attained 18 years of age; or
- (2) The recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.

Sex trafficking means the recruitment, harboring, transportation, provision, or obtaining of a person for the purpose of a commercial sex act.

Subcontract means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

Subcontractor means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime contractor or another subcontractor.

United States means the 50 States, the District of Columbia, and outlying areas.

- (b) *Policy.* The United States Government has adopted a policy prohibiting trafficking in persons including the trafficking-related activities of this clause. Contractors, contractor employees, and their agents shall not—
 - (1) Engage in severe forms of trafficking in persons during the period of performance of the contract;
 - (2) Procure commercial sex acts during the period of performance of the contract;
 - (3) Use forced labor in the performance of the contract;
 - (4) Destroy, conceal, confiscate, or otherwise deny access by an employee to the employee's identity or immigration documents, such as passports or drivers' licenses, regardless of issuing authority;
 - (5) (i) Use misleading or fraudulent practices during the recruitment of employees or offering of employment, such as failing to disclose, in a format and language understood by the employee or potential employee, basic information or making material misrepresentations

during the recruitment of employees regarding the key terms and conditions of employment, including wages and fringe benefits, the location of work, the living conditions, housing and associated costs (if employer or agent provided or arranged), any significant costs to be charged to the employee or potential employee, and, if applicable, the hazardous nature of the work;

- (ii) Use recruiters that do not comply with local labor laws of the country in which the recruiting takes place;
- (6) Charge employees or potential employees recruitment fees;
- (7)
 - (i) Fail to provide return transportation or pay for the cost of return transportation upon the end of employment—
 - (A) For an employee who is not a national of the country in which the work is taking place and who was brought into that country for the purpose of working on a U.S. Government contract or subcontract (for portions of contracts performed outside the United States); or
 - (B) For an employee who is not a United States national and who was brought into the United States for the purpose of working on a U.S. Government contract or subcontract, if the payment of such costs is required under existing temporary worker programs or pursuant to a written agreement with the employee (for portions of contracts performed inside the United States); except that—
 - (ii) The requirements of paragraphs (b)(7)(i) of this clause shall not apply to an employee who is—
 - (A) Legally permitted to remain in the country of employment and who chooses to do so; or
 - (B) Exempted by an authorized official of the contracting agency from the requirement to provide return transportation or pay for the cost of return transportation;
 - (iii) The requirements of paragraph (b)(7)(i) of this clause are modified for a victim of trafficking in persons who is seeking victim services or legal redress in the country of employment, or for a witness in an enforcement action related to trafficking in persons. The contractor shall provide the return transportation or pay the cost of return transportation in a way that does not obstruct the victim services, legal redress, or witness activity. For example, the contractor shall

not only offer return transportation to a witness at a time when the witness is still needed to testify. This paragraph does not apply when the exemptions at paragraph (b)(7)(ii) of this clause apply.

- (8) Provide or arrange housing that fails to meet the host country housing and safety standards; or
 - (9) If required by law or contract, fail to provide an employment contract, recruitment agreement, or other required work document in writing. Such written work document shall be in a language the employee understands. If the employee must relocate to perform the work, the work document shall be provided to the employee at least five days prior to the employee relocating. The employee's work document shall include, but is not limited to, details about work description, wages, prohibition on charging recruitment fees, work location(s), living accommodations and associated costs, time off, roundtrip transportation arrangements, grievance process, and the content of applicable laws and regulations that prohibit trafficking in persons.
- (c) *Contractor requirements.* The Contractor shall—
- (1) Notify its employees and agents of—
 - (i) The United States Government's policy prohibiting trafficking in persons, described in paragraph (b) of this clause; and
 - (ii) The actions that will be taken against employees or agents for violations of this policy. Such actions for employees may include, but are not limited to, removal from the contract, reduction in benefits, or termination of employment; and
 - (2) Take appropriate action, up to and including termination, against employees, agents, or subcontractors that violate the policy in paragraph (b) of this clause.
- (d) *Notification.* (1) The Contractor shall inform the Contracting Officer and the agency Inspector General immediately of—
- (i) Any credible information it receives from any source (including host country law enforcement) that alleges a Contractor employee, subcontractor, subcontractor employee, or their agent has engaged in conduct that violates the policy in paragraph (b) of this clause (see also 18 U.S.C. 1351, Fraud in Foreign Labor Contracting, and 52.203-13(b)(3)(i)(A), if that clause is included in the solicitation or contract, which requires disclosure to the agency Office of the

Inspector General when the Contractor has credible evidence of fraud); and

- (ii) Any actions taken against a Contractor employee, subcontractor, subcontractor employee, or their agent pursuant to this clause.
- (2) If the allegation may be associated with more than one contract, the Contractor shall inform the contracting officer for the contract with the highest dollar value.
- (e) *Remedies.* In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraphs (c), (d), (g), (h), or (i) of this clause may result in—
 - (1) Requiring the Contractor to remove a Contractor employee or employees from the performance of the contract;
 - (2) Requiring the Contractor to terminate a subcontract;
 - (3) Suspension of contract payments until the Contractor has taken appropriate remedial action;
 - (4) Loss of award fee, consistent with the award fee plan, for the performance period in which the Government determined Contractor non-compliance;
 - (5) Declining to exercise available options under the contract;
 - (6) Termination of the contract for default or cause, in accordance with the termination clause of this contract; or
 - (7) Suspension or debarment.
- (f) *Mitigating and aggravating factors.* When determining remedies, the Contracting Officer may consider the following:
 - (1) Mitigating factors. The Contractor had a Trafficking in Persons compliance plan or an awareness program at the time of the violation, was in compliance with the plan, and has taken appropriate remedial actions for the violation, that may include reparation to victims for such violations.
 - (2) Aggravating factors. The Contractor failed to abate an alleged violation or enforce the requirements of a compliance plan, when directed by the Contracting Officer to do so.

- (g) Full cooperation. (1) The Contractor shall, at a minimum—
- (i) Disclose to the agency Inspector General information sufficient to identify the nature and extent of an offense and the individuals responsible for the conduct;
 - (ii) Provide timely and complete responses to Government auditors' and investigators' requests for documents;
 - (iii) Cooperate fully in providing reasonable access to its facilities and staff (both inside and outside the U.S.) to allow contracting agencies and other responsible Federal agencies to conduct audits, investigations, or other actions to ascertain compliance with the Trafficking Victims Protection Act of 2000 (22 U.S.C. chapter 78), E.O. 13627, or any other applicable law or regulation establishing restrictions on trafficking in persons, the procurement of commercial sex acts, or the use of forced labor; and
 - (iv) Protect all employees suspected of being victims of or witnesses to prohibited activities, prior to returning to the country from which the employee was recruited, and shall not prevent or hinder the ability of these employees from cooperating fully with Government authorities.
- (2) The requirement for full cooperation does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not—
- (i) Require the Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine;
 - (ii) Require any officer, director, owner, employee, or agent of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; or
 - (iii) Restrict the Contractor from—
 - (A) Conducting an internal investigation; or
 - (B) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.
- (h) Compliance plan. (1) This paragraph (h) applies to any portion of the contract that—

- (i) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and
 - (ii) Has an estimated value that exceeds \$500,000.
- (2) The Contractor shall maintain a compliance plan during the performance of the contract that is appropriate—
 - (i) To the size and complexity of the contract; and
 - (ii) To the nature and scope of the activities to be performed for the Government, including the number of non-United States citizens expected to be employed and the risk that the contract or subcontract will involve services or supplies susceptible to trafficking in persons.
- (3) Minimum requirements. The compliance plan must include, at a minimum, the following:
 - (i) An awareness program to inform contractor employees about the Government's policy prohibiting trafficking-related activities described in paragraph (b) of this clause, the activities prohibited, and the actions that will be taken against the employee for violations. Additional information about Trafficking in Persons and examples of awareness programs can be found at the Web site for the Department of State's Office to Monitor and Combat Trafficking in Persons at <http://www.state.gov/j/tip/>.
 - (ii) A process for employees to report, without fear of retaliation, activity inconsistent with the policy prohibiting trafficking in persons, including a means to make available to all employees the hotline phone number of the Global Human Trafficking Hotline at 1-844-888-FREE and its email address at help@befree.org.
 - (iii) A recruitment and wage plan that only permits the use of recruitment companies with trained employees, prohibits charging recruitment fees to the employee or potential employee, and ensures that wages meet applicable host-country legal requirements or explains any variance.
 - (iv) A housing plan, if the Contractor or subcontractor intends to provide or arrange housing, that ensures that the housing meets host-country housing and safety standards.

- (v) Procedures to prevent agents and subcontractors at any tier and at any dollar value from engaging in trafficking in persons (including activities in paragraph (b) of this clause) and to monitor, detect, and terminate any agents, subcontracts, or subcontractor employees that have engaged in such activities.
- (4) Posting. (i) The Contractor shall post the relevant contents of the compliance plan, no later than the initiation of contract performance, at the workplace (unless the work is to be performed in the field or not in a fixed location) and on the Contractor's Web site (if one is maintained). If posting at the workplace or on the Web site is impracticable, the Contractor shall provide the relevant contents of the compliance plan to each worker in writing.
 - (ii) The Contractor shall provide the compliance plan to the Contracting Officer upon request.
- (5) Certification. Annually after receiving an award, the Contractor shall submit a certification to the Contracting Officer that—
 - (i) It has implemented a compliance plan to prevent any prohibited activities identified at paragraph (b) of this clause and to monitor, detect, and terminate any agent, subcontract or subcontractor employee engaging in prohibited activities; and
 - (ii) After having conducted due diligence, either—
 - (A) To the best of the Contractor's knowledge and belief, neither it nor any of its agents, subcontractors, or their agents is engaged in any such activities; or
 - (B) If abuses relating to any of the prohibited activities identified in paragraph (b) of this clause have been found, the Contractor or subcontractor has taken the appropriate remedial and referral actions.
- (i) Subcontracts. (1) The Contractor shall include the substance of this clause, including this paragraph (i), in all subcontracts and in all contracts with agents. The requirements in paragraph (h) of this clause apply only to any portion of the subcontract that—
 - (A) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and
 - (B) Has an estimated value that exceeds \$500,000.

- (2) If any subcontractor is required by this clause to submit a certification, the Contractor shall require submission prior to the award of the subcontract and annually thereafter. The certification shall cover the items in paragraph (h)(5) of this clause.

I.50 - FAR 52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (OCT 2015)
(PREV. I.127)

- (a) *Definitions.* As used in this clause—

Commercially available off-the-shelf (COTS) item—

- (1) Means any item of supply that is—
- (i) A commercial item (as defined in paragraph (1) of the definition at 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4) such as agricultural products and petroleum products. Per 46 CFR 525.1(c)(2), “bulk cargo” means cargo that is loaded and carried in bulk onboard ship without mark or count, in a loose unpackaged form, having homogenous characteristics. Bulk cargo loaded into intermodal equipment, except LASH or Seabee barges, is subject to mark and count and, therefore, ceases to be bulk cargo.

Employee assigned to the contract means an employee who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), who is directly performing work, in the United States, under a contract that is required to include the clause prescribed at 22.1803. An employee is not considered to be directly performing work under a contract if the employee—

- (1) Normally performs support work, such as indirect or overhead functions; and
- (2) Does not perform any substantial duties applicable to the contract.

Subcontract means any contract, as defined in 2.101, entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.

Subcontractor means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime Contractor or another subcontractor.

United States, as defined in 8 U.S.C. 1101(a)(38), means the 50 States, the District of Columbia, Puerto Rico, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands.

(b) *Enrollment and verification requirements.*

- (1) If the Contractor is not enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall—
 - (i) *Enroll.* Enroll as a Federal Contractor in the E-Verify program within 30 calendar days of contract award;
 - (ii) *Verify all new employees.* Within 90 calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); and
 - (iii) *Verify employees assigned to the contract.* For each employee assigned to the contract, initiate verification within 90 calendar days after date of enrollment or within 30 calendar days of the employee's assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (2) If the Contractor is enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall use E-Verify to initiate verification of employment eligibility of—
 - (i) *All new employees.*
 - (A) *Enrolled 90 calendar days or more.* The Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or
 - (B) *Enrolled less than 90 calendar days.* Within 90 calendar days after enrollment as a Federal Contractor in E-Verify, the Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or

- (ii) *Employees assigned to the contract.* For each employee assigned to the contract, the Contractor shall initiate verification within 90 calendar days after date of contract award or within 30 days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (3) If the Contractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State or local government or the government of a Federally recognized Indian tribe; or a surety performing under a takeover agreement entered into with a Federal agency pursuant to a performance bond, the Contractor may choose to verify only employees assigned to the contract, whether existing employees or new hires. The Contractor shall follow the applicable verification requirements at (b)(1) or (b)(2), respectively, except that any requirement for verification of new employees applies only to new employees assigned to the contract.
- (4) *Option to verify employment eligibility of all employees.* The Contractor may elect to verify all existing employees hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), rather than just those employees assigned to the contract. The Contractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), within 180 calendar days of—
 - (i) Enrollment in the E-Verify program; or
 - (ii) Notification to E-Verify Operations of the Contractor's decision to exercise this option, using the contact information provided in the E-Verify program Memorandum of Understanding (MOU).
- (5) The Contractor shall comply, for the period of performance of this contract, with the requirement of the E-Verify program MOU.
 - (i) The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Contractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Contractor will be referred to a suspension or debarment official.
 - (ii) During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the Contractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Contractor, then the Contractor must reenroll in E-Verify.

- (c) *Web site.* Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify>.
- (d) *Individuals previously verified.* The Contractor is not required by this clause to perform additional employment verification using E-Verify for any employee—
 - (1) Whose employment eligibility was previously verified by the Contractor through the E-Verify program;
 - (2) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or
 - (3) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD) -12, Policy for a Common Identification Standard for Federal Employees and Contractors.
- (e) *Subcontracts.* The contractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for identification of the parties), in each subcontract that—
 - (1) *Is for—*
 - (i) Commercial or noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or
 - (ii) Construction;
 - (2) Has a value of more than \$3,500; and
 - (3) Includes work performed in the United States.

I.51 - FAR 52.223-2 AFFIRMATIVE PROCUREMENT OF BIOBASED PRODUCTS UNDER SERVICE AND CONSTRUCTION CONTRACTS (SEP 2013) (PREV. I.132)

- (a) In the performance of this contract, the contractor shall make maximum use of biobased products that are United States Department of Agriculture (USDA)-designated items unless—

- (1) The product cannot be acquired—
 - (i) Competitively within a time frame providing for compliance with the contract performance schedule;
 - (ii) Meeting contract performance requirements; or
 - (iii) At a reasonable price.
 - (2) The product is to be used in an application covered by a USDA categorical exemption (see 7 CFR 3201.3(e)). For example, all USDA-designated items are exempt from the preferred procurement requirement for the following:
 - (i) Spacecraft system and launch support equipment.
 - (ii) Military equipment, i.e., a product or system designed or procured for combat or combat-related missions.
- (b) Information about this requirement and these products is available at <http://www.biopreferred.gov>.
- (c) In the performance of this contract, the Contractor shall—
- (1) Report to <http://www.sam.gov>, with a copy to the Contracting Officer, on the product types and dollar value of any USDA-designated biobased products purchased by the Contractor during the previous Government fiscal year, between October 1 and September 30; and
 - (2) Submit this report no later than—
 - (i) October 31 of each year during contract performance; and
 - (ii) At the end of contract performance.

I.52 - FAR 52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997) (ALTERNATE I) (JULY 1995) (PREV. I.28A)

- (a) Hazardous material, as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).
- (b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as

National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (If none, insert "None")	Identification No.
None	

- (c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.
- (d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.
- (e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.
- (f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.
- (g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.
- (h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:
 - (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to-
 - (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

- (ii) Obtain medical treatment for those affected by the material; and
 - (iii) Have others use, duplicate, and disclose the data for the Government for these purposes.
- (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.
- (3) The Government is not precluded from using similar or identical data acquired from other sources.
- (i) Except as provided in paragraph (i)(2), the Contractor shall prepare and submit a sufficient number of Material Safety Data Sheets (MSDS's), meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous materials identified in paragraph (b) of this clause.
 - (1) For items shipped to consignees, the Contractor shall include a copy of the MSDS's with the packing list or other suitable shipping document which accompanies each shipment. Alternatively, the Contractor is permitted to transmit MSDS's to consignees in advance of receipt of shipments by consignees, if authorized in writing by the Contracting Officer.
 - (2) For items shipped to consignees identified by mailing address as agency depots, distribution centers or customer supply centers, the Contractor shall provide one copy of the MSDS's in or on each shipping container. If affixed to the outside of each container, the MSDS's must be placed in a weather resistant envelope.

I.53 - FAR 52.223-5 POLLUTION PREVENTION AND RIGHT-TO-KNOW
INFORMATION (MAY 2011) ALTERNATE I (MAY 2011) (PREV. I.29)

- (a) *Definitions.* As used in this clause—
Toxic chemical means a chemical or chemical category listed in 40 CFR 372.65.
- (b) Federal facilities are required to comply with the provisions of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001-11050), and the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101-13109).
- (c) The Contractor shall provide all information needed by the Federal facility to comply with the following:

- (1) The emergency planning reporting requirements of Section 302 of EPCRA.
- (2) The emergency notice requirements of Section 304 of EPCRA.
- (3) The list of Material Safety Data Sheets, required by Section 311 of EPCRA.
- (4) The emergency and hazardous chemical inventory forms of Section 312 of EPCRA.
- (5) The toxic chemical release inventory of Section 313 of EPCRA, which includes the reduction and recycling information required by Section 6607 of PPA.
- (6) The toxic chemical and hazardous substance release and use reduction goals of section 2(e) of Executive Order 13423 and of Executive Order 13514.
- (7) The environmental management system as described in section 3(b) of E.O. 13423 and 2(j) of E.O. 13514.

I.54 - FAR 52.223-9 ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL CONTENT FOR EPA DESIGNATED ITEMS (MAY 2008) (PREV. I.29B)

- (a) *Definitions.* As used in this clause—

Postconsumer material means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of “recovered material.”

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

- (b) The Contractor, on completion of this contract, shall—
- (1) Estimate the percentage of the total recovered material content for EPA - designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and
 - (2) Submit this estimate to the Contracting Officer.

I.55 - FAR 52.223-10 WASTE REDUCTION PROGRAM (MAY 2011) (PREV. I.29C)

- (a) *Definitions.* As used in this clause—
Recycling means the series of activities, including collection, separation, and processing, by which products or other materials are recovered from the solid waste stream for use in the form of raw materials in the manufacture of products other than fuel for producing heat or power by combustion.

Waste prevention means any change in the design, manufacturing, purchase, or use of materials or products (including packaging) to reduce their amount or toxicity before they are discarded. Waste prevention also refers to the reuse of products or materials.

Waste reduction means preventing or decreasing the amount of waste being generated through waste prevention, recycling, or purchasing recycled and environmentally preferable products.

- (b) Consistent with the requirements of section 3(e) of Executive Order 13423, the Contractor shall establish a program to promote cost-effective waste reduction in all operations and facilities covered by this contract. The Contractor's programs shall comply with applicable Federal, State, and local requirements, specifically including Section 6002 of the Resource Conservation and Recovery Act (42 U.S.C. 6962, et seq.) and implementing regulations (40 CFR Part 247).

I.56 - FAR 52.223-11 OZONE-DEPLETING SUBSTANCES AND HIGH GLOBAL WARMING POTENTIAL HYDROFLUOROCARBONS (JUN 2016) (PREV. I.29D)

- (a) *Definitions.* As used in this clause--

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables of alternatives available at (<http://www.epa.gov/snap/>).

Hydrofluorocarbons means compounds that only contain hydrogen, fluorine, and carbon.

Ozone-depleting substance means any substance the Environmental Protection Agency designates in 40 CFR part 82 as—

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
 - (2) Class II, including, but not limited to, hydrochlorofluorocarbons.
- (b) The Contractor shall label products that contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), (d), and (e) and 40 CFR part 82, subpart E, as follows:

Warning: Contains (or manufactured with, if applicable) *_____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

* The Contractor shall insert the name of the substance(s).

- (c) *Reporting.* For equipment and appliances that normally each contain 50 or more pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons, the Contractor shall—
- (1) Track on an annual basis, between October 1 and September 30, the amount in pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons contained in the equipment and appliances delivered to the Government under this contract by--
 - (i) Type of hydrofluorocarbon (e.g., HFC-134a, HFC-125, R-410A, R-404A, etc.);
 - (ii) Contract number; and
 - (iii) Equipment/appliance;
 - (2) Report that information to the Contracting Officer for FY16 and to www.sam.gov, for FY17 and after--
 - (i) Annually by November 30 of each year during contract performance; and
 - (ii) At the end of contract performance.
- (d) The Contractor shall refer to EPA's SNAP program (available at <http://www.epa.gov/snap>) to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables available at <http://www.epa.gov/snap>.

I.57 - FAR 52.223-12 MAINTENANCE, SERVICE, REPAIR, OR DISPOSAL OF REFRIGERATION EQUIPMENT AND AIR CONDITIONERS (JUN 2016) (PREV. I.30)

- (a) *Definitions.* As used in this clause--

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables of alternatives available at (<http://www.epa.gov/snap/>).

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) The Contractor shall comply with the applicable requirements of sections 608 and 609 of the Clean Air Act (42 U.S.C. 7671g and 7671h) as each or both apply to this contract.
- (c) Unless otherwise specified in the contract, the Contractor shall reduce the use, release, or emissions of high global warming potential hydrofluorocarbons under this contract by—
- (1) Transitioning over time to the use of another acceptable alternative in lieu of high global warming potential hydrofluorocarbons in a particular end use for which EPA's SNAP program has identified other acceptable alternatives that have lower global warming potential.
 - (2) Preventing and repairing refrigerant leaks through service and maintenance during contract performance;
 - (3) Implementing recovery, recycling, and responsible disposal programs that avoid release or emissions during equipment service and as the equipment reaches the end of its useful life; and
 - (4) Using reclaimed hydrofluorocarbons, where feasible.
- (d) For equipment and appliances that normally each contain 50 or more pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons, that will be maintained, serviced, repaired, or disposed under this contract, the Contractor shall--

- (1) Track on an annual basis, between October 1 and September 30, the amount in pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons added or taken out of equipment or appliances under this contract by--
 - (i) Type of hydrofluorocarbon (e.g., HFC-134a, HFC-125, R-410A, R-404A, etc.);
 - (ii) Contract number;
 - (iii) Equipment/appliance; and
- (2) Report that information to the Contracting Officer for FY16 and to www.sam.gov, for FY17 and after--
 - (i) No later than November 30 of each year during contract performance; and
 - (ii) At the end of contract performance.
- (e) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables available at <http://www.epa.gov/snap/>.

I.58 - FAR 52.223-13 ACQUISITION OF EPEAT®-REGISTERED IMAGING EQUIPMENT (JUN 2014) (PREV. I.156)

- (a) Definitions. As used in this clause-

Imaging equipment means the following products:

- (1) Copier-A commercially available imaging product with a sole function of the production of hard copy duplicates from graphic hard-copy originals. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as copiers or upgradeable digital copiers (UDCs).
- (2) Digital duplicator-A commercially available imaging product that is sold in the market as a fully automated duplicator system through the method of stencil duplicating with digital reproduction functionality. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as digital duplicators.

- (3) Facsimile machine (fax machine)-A commercially available imaging product whose primary functions are scanning hard-copy originals for electronic transmission to remote units and receiving similar electronic transmissions to produce hard-copy output. Electronic transmission is primarily over a public telephone system but also may be via computer network or the Internet. The product also may be capable of producing hard copy duplicates. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as fax machines.
 - (4) Mailing machine-A commercially available imaging product that serves to print postage onto mail pieces. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as mailing machines.
 - (5) Multifunction device (MFD)-A commercially available imaging product, which is a physically integrated device or a combination of functionally integrated components, that performs two or more of the core functions of copying, printing, scanning, or faxing. The copy functionality as addressed in this definition is considered to be distinct from single-sheet convenience copying offered by fax machines. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as MFDs or multifunction products.
 - (6) Printer-A commercially available imaging product that serves as a hard-copy output device and is capable of receiving information from single-user or networked computers, or other input devices (e.g., digital cameras). The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as printers, including printers that can be upgraded into MFDs in the field.
 - (7) Scanner-A commercially available imaging product that functions as an electro-optical device for converting information into electronic images that can be stored, edited, converted, or transmitted, primarily in a personal computing environment. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as scanners.
- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only imaging equipment that, at the time of submission of proposals and at the time of award, was EPEAT® bronze-registered or higher.
 - (c) For information about EPEAT®, see www.epa.gov/epeat/.

I.59 - FAR 52.223-14 ACQUISITION OF EPEAT®-REGISTERED TELEVISIONS (JUN 2014) (PREV. I.157)

- (a) Definitions. As used in this clause-

Television or “TV” means a commercially available electronic product designed primarily for the reception and display of audiovisual signals received from terrestrial, cable, satellite, Internet Protocol TV (IPTV), or other digital or analog sources. A TV consists of a tuner/receiver and a display encased in a single enclosure. The product usually relies upon a cathode-ray tube (CRT), liquid crystal display (LCD), plasma display, or other display technology. Televisions with computer capability (e.g., computer input port) may be considered to be a TV as long as they are marketed and sold to consumers primarily as televisions.

- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only televisions that, at the time of submission of proposals and at the time of award, were EPEAT® bronze-registered or higher.
- (c) For information about EPEAT®, see www.epa.gov/epeat/.

I.60 - FAR 52.223-15 ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (DEC 2007) (PREV. I.122)

- (a) *Definition.* As used in this clause—

Energy-efficient product —

- (1) Means a product that—
- (i) Meets Department of Energy and Environmental Protection Agency criteria for use of the Energy Star trademark label; or
 - (ii) Is in the upper 25 percent of efficiency for all similar products as designated by the Department of Energy's Federal Energy Management Program.
- (2) The term “product” does not include any energy-consuming product or system designed or procured for combat or combat-related missions (42 U.S.C. 8259b).
- (b) The Contractor shall ensure that energy-consuming products are energy efficient products (i.e., ENERGY STAR® products or FEMP-designated products) at the time of contract award, for products that are—

- (1) Delivered;
 - (2) Acquired by the Contractor for use in performing services at a Federally-controlled facility;
 - (3) Furnished by the Contractor for use by the Government; or
 - (4) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance.
- (c) The requirements of paragraph (b) apply to the Contractor (including any subcontractor) unless—
- (1) The energy-consuming product is not listed in the ENERGY STAR® Program or FEMP; or
 - (2) Otherwise approved in writing by the Contracting Officer.
- (d) Information about these products is available for—
- (1) ENERGY STAR® at <http://www.energystar.gov/products>; and
 - (2) FEMP at http://www1.eere.energy.gov/femp/procurement/eep_requirements.html
- .

I.61 - FAR 52.223-16 ACQUISITION OF EPEAT®-REGISTERED PERSONAL COMPUTER PRODUCTS (OCT 2015) (PREV. I.123)

- (a) *Definitions.* As used in this clause—

Computer means a device that performs logical operations and processes data. Computers are composed of, at a minimum:

- (1) A central processing unit (CPU) to perform operations;
- (2) User input devices such as a keyboard, mouse, digitizer, or game controller; and
- (3) A computer display screen to output information. Computers include both stationary and portable units, including desktop computers, integrated desktop computers, notebook computers, thin clients, and workstations. Although computers must be capable of using input devices and computer displays, as noted in (2) and (3) above, computer systems do not need to include these devices on shipment to meet this definition. This definition

does not include server computers, gaming consoles, mobile telephones, portable hand-held calculators, portable digital assistants (PDAs), MP3 players, or any other mobile computing device with displays less than 4 inches, measured diagonally.

Computer display means a display screen and its associated electronics encased in a single housing or within the computer housing (e.g., notebook or integrated desktop computer) that is capable of displaying output information from a computer via one or more inputs such as a VGA, DVI, USB, DisplayPort, and/or IEEE 1394-2008™, Standard for High Performance Serial Bus. Examples of computer display technologies are the cathode-ray tube (CRT) and liquid crystal display (LCD).

Desktop computer means a computer where the main unit is intended to be located in a permanent location, often on a desk or on the floor. Desktops are not designed for portability and utilize an external computer display, keyboard, and mouse. Desktops are designed for a broad range of home and office applications.

Integrated desktop computer means a desktop system in which the computer and computer display function as a single unit that receives its AC power through a single cable. Integrated desktop computers come in one of two possible forms:

- (1) A system where the computer display and computer are physically combined into a single unit; or
- (2) A system packaged as a single system where the computer display is separate but is connected to the main chassis by a DC power cord and both the computer and computer display are powered from a single power supply. As a subset of desktop computers, integrated desktop computers are typically designed to provide similar functionality as desktop systems.

Notebook computer means a computer designed specifically for portability and to be operated for extended periods of time either with or without a direct connection to an AC power source. Notebooks must utilize an integrated computer display and be capable of operation off of an integrated battery or other portable power source. In addition, most notebooks use an external power supply and have an integrated keyboard and pointing device. Notebook computers are typically designed to provide similar functionality to desktops, including operation of software similar in functionality to that used in desktops. Docking stations are considered accessories for notebook computers, not notebook computers. Tablet PCs, which may use touch-sensitive screens along with, or instead of, other input devices, are considered notebook computers.

Personal computer product means a computer, computer display, desktop computer, integrated desktop computer, or notebook computer.

- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only personal computer products that, at the time of submission of proposals and at the time of award, were EPEAT® bronze -registered or higher.
- (c) For information about EPEAT®, see www.epa.gov/epeat.

I.62 - FAR 52.223-17 AFFIRMATIVE PROCUREMENT OF EPA-DESIGNATED ITEMS IN SERVICE AND CONSTRUCTION CONTRACTS (AUG 2018) (PREV. I.133)

- (a) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - (1) Competitively within a timeframe providing for compliance with the contract performance schedule;
 - (2) Meeting contract performance requirements; or
 - (3) At a reasonable price.
- (b) Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>. The list of EPA-designated items is available at <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

I.63 - FAR 52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011) (PREV. I.148)

- (a) *Definitions.* As used in this clause—

Driving —

- (1) Means operating a motor vehicle on an active roadway with the motor running, including while temporarily stationary because of traffic, a traffic light, stop sign, or otherwise.
- (2) Does not include operating a motor vehicle with or without the motor running when one has pulled over to the side of, or off, an active roadway and has halted in a location where one can safely remain stationary.

Text messaging means reading from or entering data into any handheld or other electronic device, including for the purpose of short message service texting, e-mailing, instant messaging, obtaining navigational information, or engaging in any other form of electronic data retrieval or electronic data communication. The term does not include glancing at or listening to a navigational device that is secured in a commercially designed holder affixed to the vehicle, provided that the destination and route are programmed into the device either before driving or while stopped in a location off the roadway where it is safe and legal to park.

- (b) This clause implements Executive Order 13513, Federal Leadership on Reducing Text Messaging While Driving, dated October 1, 2009.
- (c) The Contractor is encouraged to—
 - (1) Adopt and enforce policies that ban text messaging while driving—
 - (i) Company-owned or -rented vehicles or Government- owned vehicles; or
 - (ii) Privately-owned vehicles when on official Government business or when performing any work for or on behalf of the Government.
 - (2) Conduct initiatives in a manner commensurate with the size of the business, such as—
 - (i) Establishment of new rules and programs or reevaluation of existing programs to prohibit text messaging while driving; and
 - (ii) Education, awareness, and other outreach to employees about the safety risks associated with texting while driving.
- (d) *Subcontracts.* The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts that exceed the micro-purchase threshold.

I.64 - FAR 52.223-19 COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT SYSTEMS (MAY 2011) (PREV. I.145)

The Contractor's work under this contract shall conform with all operational controls identified in the applicable agency or facility Environmental Management Systems and provide monitoring and measurement information necessary for the Government to address environmental performance relative to the goals of the Environmental Management Systems.

I.65 - FAR 52.223-20 AEROSOLS (JUN 2016) (PREV. I.161)

(a) *Definitions.* As used in this clause—

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables of alternatives available at <http://www.epa.gov/snap/>.

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) Unless otherwise specified in the contract, the Contractor shall reduce its use, release, or emissions of high global warming potential hydrofluorocarbons, when feasible, from aerosol propellants or solvents under this contract. When determining feasibility of using a particular alternative, the Contractor shall consider environmental, technical, and economic factors such as—
- (1) In-use emission rates, energy efficiency;
 - (2) Safety, such as flammability or toxicity;
 - (3) Ability to meet technical performance requirements; and
 - (4) Commercial availability at a reasonable cost.
- (c) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables available at <http://www.epa.gov/snap/>.

I.66 - FAR 52.223-21 FOAMS (JUN 2016) (PREV. I.162)

(a) *Definitions.* As used in this clause—

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy

(SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables of alternatives available at <http://www.epa.gov/snap/>.

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) Unless otherwise specified in the contract, the Contractor shall reduce its use, release, and emissions of high global warming potential hydrofluorocarbons and refrigerant blends containing hydrofluorocarbons, when feasible, from foam blowing agents, under this contract. When determining feasibility of using a particular alternative, the Contractor shall consider environmental, technical, and economic factors such as—
 - (1) In-use emission rates, energy efficiency, and safety;
 - (2) Ability to meet performance requirements; and
 - (3) Commercial availability at a reasonable cost.
- (c) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables available at <http://www.epa.gov/snap/>.

I.67 - FAR 52.224-1 PRIVACY ACT NOTIFICATION (APR 1984) (PREV. I.31)

The Contractor will be required to design, develop, or operate a system of records on individuals to accomplish an agency function subject to the Privacy Act of 1974, Public Law 93-579, December 31, 1974 (5 U.S.C. 552a) and applicable agency regulations. Violation of the Act may involve the imposition of criminal penalties.

I.68 - FAR 52.224-2 PRIVACY ACT (APR 1984) (PREV. I.32)

- (a) The Contractor agrees to:
 - (1) Comply with the Privacy Act of 1974 (the Act) and the agency rules and regulations issued under the Act in the design, development, or operation of any system of records on individuals to accomplish an agency function when the contract specifically identifies:
 - (i) The systems of records; and
 - (ii) The design, development, or operation work that the contractor is to perform;

- (2) Include the Privacy Act notification contained in this contract in every solicitation and resulting subcontract and in every subcontract awarded without a solicitation, when the work statement in the proposed subcontract requires the redesign, development, or operation of a system of records on individuals that is subject to the Act; and
 - (3) Include this clause, including this subparagraph (3), in all subcontracts awarded under this contract which requires the design, development, or operation of such a system of records.
- (b) In the event of violations of the Act, a civil action may be brought against the agency involved when the violation concerns the design, development, or operation of a system of records on individuals to accomplish an agency function, and criminal penalties may be imposed upon the officers or employees of the agency when the violation concerns the operation of a system of records on individuals to accomplish an agency function. For purposes of the Act, when the contract is for the operation of a system of records on individuals to accomplish an agency function, the Contractor is considered to be an employee of the agency.
- (c) (1) *Operation of a system of records*, as used in this clause, means performance of any of the activities associated with maintaining the system of records, including the collection, use, and dissemination of records.
- (2) *Record*, as used in this clause, means any item, collection, or grouping of information about an individual that is maintained by an agency, including but not limited to, education, financial transactions, medical history, and criminal or employment history and that contains the person's name, or the identifying number, symbol, or other identifying particular assigned to the individual, such as a fingerprint or voiceprint or a photograph.
- (3) *System of records on individuals*, as used in this clause, means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.

I.69 - FAR 52.224-3 PRIVACY TRAINING (JAN 2017) (PREV. I.163)

- (a) *Definition.* As used in this clause, "personally identifiable information" means information that can be used to distinguish or trace an individual's identity, either alone or when combined with other information that is linked or linkable to a specific individual. (See *Office of Management and Budget (OMB) Circular A-130, Managing Federal Information as a Strategic Resource*).

- (b) The Contractor shall ensure that initial privacy training, and annual privacy training thereafter, is completed by contractor employees who—
 - (1) Have access to a system of records;
 - (2) Create, collect, use, process, store, maintain, disseminate, disclose, dispose, or otherwise handle personally identifiable information on behalf of an agency; or
 - (3) Design, develop, maintain, or operate a system of records (see also FAR subpart 24.1 and 39.105).
- (c) (1) Privacy training shall address the key elements necessary for ensuring the safeguarding of personally identifiable information or a system of records. The training shall be role-based, provide foundational as well as more advanced levels of training, and have measures in place to test the knowledge level of users. At a minimum, the privacy training shall cover—
 - (i) The provisions of the Privacy Act of 1974 (5 U.S.C. 552a), including penalties for violations of the Act;
 - (ii) The appropriate handling and safeguarding of personally identifiable information;
 - (iii) The authorized and official use of a system of records or any other personally identifiable information;
 - (iv) The restriction on the use of unauthorized equipment to create, collect, use, process, store, maintain, disseminate, disclose, dispose or otherwise access personally identifiable information;
 - (v) The prohibition against the unauthorized use of a system of records or unauthorized disclosure, access, handling, or use of personally identifiable information; and
 - (vi) The procedures to be followed in the event of a suspected or confirmed breach of a system of records or the unauthorized disclosure, access, handling, or use of personally identifiable information (see OMB guidance for Preparing for and Responding to a Breach of Personally Identifiable Information).
- (2) Completion of an agency-developed or agency-conducted training course shall be deemed to satisfy these elements.
- (d) The Contractor shall maintain and, upon request, provide documentation of completion of privacy training to the Contracting Officer.

- (e) The Contractor shall not allow any employee access to a system of records, or permit any employee to create, collect, use, process, store, maintain, disseminate, disclose, dispose or otherwise handle personally identifiable information, or to design, develop, maintain, or operate a system of records unless the employee has completed privacy training, as required by this clause.
- (f) The substance of this clause, including this paragraph (f), shall be included in all subcontracts under this contract, when subcontractor employees will—
 - (1) Have access to a system of records;
 - (2) Create, collect, use, process, store, maintain, disseminate, disclose, dispose, or otherwise handle personally identifiable information; or
 - (3) Design, develop, maintain, or operate a system of records.

I.70 - FAR 52.225-1 BUY AMERICAN – SUPPLIES (MAY 2014) (MODIFIED BY DEAR 970.2570-1) (PREV. I.33)

Definitions. As used in this clause--

Commercially available off-the-shelf (COTS) item—

- (1) Means any item of supply (including construction material) that is—
 - (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Component means an article, material, or supply incorporated directly into an end product.

Cost of components means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

Domestic end product means—

- (1) An unmanufactured end product mined or produced in the United States;
- (2) An end product manufactured in the United States, if—
 - (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as those that the agency determines are not mined, produced, or manufactured in sufficient and reasonably available commercial quantities of a satisfactory quality are treated as domestic. Scrap generated, collected, and prepared for processing in the United States is considered domestic; or
 - (ii) The end product is a COTS item.

End product means those articles, materials, and supplies to be acquired under the contract for public use.

Foreign end product means an end product other than a domestic end product.

United States means the 50 States, the District of Columbia, and outlying areas.

- (b) 41 U.S.C. chapter 83, Buy American, provides a preference for domestic end products for supplies acquired for use in the United States. In accordance with 41 U.S.C. 1907, the component test of the Buy American statute is waived for an end product that is a COTS item (See 12.505(a)(1)).
- (c) Offerors may obtain from the Contracting Officer a list of foreign articles that the Contracting Officer will treat as domestic for this contract.
- (d) The Contractor shall deliver only domestic end products except to the extent that it specified delivery of foreign end products in the provision of the solicitation entitled “Buy American Certificate.”

I.71 - FAR 52.225-8 DUTY-FREE ENTRY (OCT 2010) (PREV. I.150)

- (a) *Definition.* Customs territory of the United States means the States, the District of Columbia, and Puerto Rico.
- (b) Except as otherwise approved by the Contracting Officer, the Contractor shall not include in the contract price any amount for duties on supplies specifically identified in the Schedule to be accorded duty-free entry.
- (c) Except as provided in paragraph (d) of this clause or elsewhere in this contract, the following procedures apply to supplies not identified in the Schedule to be accorded duty-free entry:
 - (1) The Contractor shall notify the Contracting Officer in writing of any purchase of foreign supplies (including, without limitation, raw materials, components, and intermediate assemblies) in excess of \$15,000 that are to be imported into the customs territory of the United States for delivery to the Government under this contract, either as end products or for incorporation into end products. The Contractor shall furnish the notice to the Contracting Officer at least 20 calendar days before the importation. The notice shall identify the--
 - (i) Foreign supplies;
 - (ii) Estimated amount of duty; and
 - (iii) Country of origin.
 - (2) The Contracting Officer will determine whether any of these supplies should be accorded duty-free entry and will notify the Contractor within 10 calendar days after receipt of the Contractor's notification.
 - (3) Except as otherwise approved by the Contracting Officer, the contract price shall be reduced by (or the allowable cost shall not include) the amount of duty that would be payable if the supplies were not entered duty-free.
- (d) The Contractor is not required to provide the notification under paragraph (c) of this clause for purchases of foreign supplies if--
 - (1) The supplies are identical in nature to items purchased by the Contractor or any subcontractor in connection with its commercial business; and
 - (2) Segregation of these supplies to ensure use only on Government contracts containing duty-free entry provisions is not economical or feasible.

- (e) The Contractor shall claim duty-free entry only for supplies to be delivered to the Government under this contract, either as end products or incorporated into end products, and shall pay duty on supplies, or any portion of them, other than scrap, salvage, or competitive sale authorized by the Contracting Officer, diverted to nongovernmental use.
- (f) The Government will execute any required duty-free entry certificates for supplies to be accorded duty-free entry and will assist the Contractor in obtaining duty-free entry for these supplies.
- (g) Shipping documents for supplies to be accorded duty-free entry shall consign the shipments to the contracting agency in care of the Contractor and shall include the--
 - (1) Delivery address of the Contractor (or contracting agency, if appropriate);
 - (2) Government prime contract number;
 - (3) Identification of carrier;
 - (4) Notation "UNITED STATES GOVERNMENT, _____ [agency], _____ Duty-free entry to be claimed pursuant to Item No(s) _____ [*from Tariff Schedules*] _____, Harmonized Tariff Schedules of the United States. Upon arrival of shipment at port of entry, District Director of Customs, please release shipment under 19 CFR part 142 and notify [*cognizant contract administration office*] for execution of Customs Forms 7501 and 7501-A and any required duty-free entry certificates.";
 - (5) Gross weight in pounds (if freight is based on space tonnage, state cubic feet in addition to gross shipping weight); and
 - (6) Estimated value in United States dollars.
- (h) The Contractor shall instruct the foreign supplier to--
 - (1) Consign the shipment as specified in paragraph (g) of this clause;
 - (2) Mark all packages with the words "UNITED STATES GOVERNMENT" and the title of the contracting agency; and
 - (3) Include with the shipment at least two copies of the bill of lading (or other shipping document) for use by the District Director of Customs at the port of entry.
- (i) The Contractor shall provide written notice to the cognizant contract administration office immediately after notification by the Contracting Officer that

duty-free entry will be accorded foreign supplies or, for duty-free supplies identified in the Schedule, upon award by the Contractor to the overseas supplier. The notice shall identify the--

- (1) Foreign supplies;
 - (2) Country of origin;
 - (3) Contract number; and
 - (4) Scheduled delivery date(s).
- (j) The Contractor shall include the substance of this clause in any subcontract if
- (1) Supplies identified in the Schedule to be accorded duty-free entry will be imported into the customs territory of the United States; or
 - (2) Other foreign supplies in excess of \$15,000 may be imported into the customs territory of the United States.

I.72 - FAR 52.225-9 BUY AMERICAN – CONSTRUCTION MATERIALS (MAY 2014)
(PREV. I.34)

- (a) *Definitions.* As used in this clause--

Commercially available off-the-shelf (COTS) item —

- (1) Means any item of supply (including construction material) that is —
 - (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Component means an article, material, or supply incorporated directly into a construction material.

Construction material means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

Domestic construction material means—

- (1) An unmanufactured construction material mined or produced in the United States;
- (2) A construction material manufactured in the United States, if—
 - (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic; or
 - (ii) The construction material is a COTS item.

Foreign construction material means a construction material other than a domestic construction material.

United States means the 50 States, the District of Columbia, and outlying areas.

(b) *Domestic preference.*

- (1) This clause implements the 41 U.S.C. chapter 83, Buy American, by providing a preference for domestic construction material. In accordance with 41 U.S.C. 1907, the component test of the Buy American statute is waived for construction material that is a COTS item. (See FAR 12.505(a)(2)). The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.
- (2) This requirement does not apply to information technology that is a commercial item or to the construction materials or components listed by the Government as follows:

None.
- (3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that -
 - (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
 - (ii) The application of the restriction of the Buy American statute to a particular construction material would be impracticable or inconsistent with the public interest; or
 - (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) *Request for determination of inapplicability of the Buy American statute.*

- (1) (i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request including--
 - (A) A description of the foreign and domestic construction materials;
 - (B) Unit of measure;
 - (C) Quantity;

- (D) Price;
 - (E) Time of delivery or availability;
 - (F) Location of the construction project;
 - (G) Name and address of the proposed supplier; and
 - (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.
- (ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.
 - (iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
 - (iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.
- (2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.
 - (3) Unless the Government determines that an exception to the Buy American statute applies, use of foreign construction material is noncompliant with the Buy American statute.
- (d) *Data.* To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) *
Item 1			
Foreign construction material			
Domestic construction material			
Item 2			
Foreign construction material			
Domestic construction material			

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[*Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

I.73 - FAR 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008) (PREV. I.35)

- (a) Except as authorized by the Office of Foreign Assets Control (OFAC) in the Department of the Treasury, the Contractor shall not acquire, for use in the performance of this contract, any supplies or services if any proclamation, Executive order, or statute administered by OFAC, or if OFAC's implementing regulations at 31 CFR Chapter V, would prohibit such a transaction by a person subject to the jurisdiction of the United States.
- (b) Except as authorized by OFAC, most transactions involving Cuba, Iran, and Sudan are prohibited, as are most imports from Burma or North Korea, into the United States or its outlying areas. Lists of entities and individuals subject to economic sanctions are included in OFAC's List of Specially Designated Nationals and Blocked Persons at <http://www.treas.gov/offices/enforcement/ofac/sdn>. More information about these restrictions, as well as updates, is available in the OFAC's regulations at 31 CFR Chapter V and/or on OFAC's website at <http://www.treas.gov/offices/enforcement/ofac>.
- (c) The Contractor shall insert this clause, including this paragraph (c), in all subcontracts.

I.74 - FAR 52.226-1 UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES (JUNE 2000) (PREV. I.164)

- (a) *Definitions.* As used in this clause:

Indian means any person who is a member of any Indian tribe, band, group, pueblo, or community that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs (BIA) in accordance with 25 U.S.C. 1452(c) and any "Native" as defined in the Alaska Native Claims Settlement Act (43 U.S.C. 1601).

Indian organization means the governing body of any Indian tribe or entity established or recognized by the governing body of an Indian tribe for the purposes of 25 U.S.C., Chapter 17.

Indian-owned economic enterprise means any Indian-owned (as determined by the Secretary of the Interior) commercial, industrial, or business activity established or organized for the purpose of profit, provided that Indian ownership constitutes not less than 51 percent of the enterprise.

Indian tribe means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, that is recognized by the Federal Government as eligible for services from BIA in accordance with 25 U.S.C. 1452(c).

Interested party means a prime contractor or an actual or prospective offeror whose direct economic interest would be affected by the award of a subcontract or by the failure to award a subcontract.

- (b) The Contractor shall use its best efforts to give Indian organizations and Indian-owned economic enterprises (25 U.S.C. 1544) the maximum practicable opportunity to participate in the subcontracts it awards to the fullest extent consistent with efficient performance of its contract.
- (1) The Contracting Officer and the Contractor, acting in good faith, may rely on the representation of an Indian organization or Indian-owned economic enterprise as to its eligibility, unless an interested party challenges its status or the Contracting Officer has independent reason to question that status. In the event of a challenge to the representation of a subcontractor, the Contracting Officer will refer the matter to the—

U.S. Department of the Interior
Bureau of Indian Affairs (BIA)
Attn: Chief, Division of Contracting and Grants
Administration
1849 C Street, NW,
MS-2626-MIB
Washington, DC 20240-4000.

The BIA will determine the eligibility and notify the Contracting Officer. No incentive payment will be made within 50 working days of subcontract

award or while a challenge is pending. If a subcontractor is determined to be an ineligible participant, no incentive payment will be made under the Indian Incentive Program.

- (2) The Contractor may request an adjustment under the Indian Incentive Program to the following:
 - (i) The estimated cost of a cost-type contract.
 - (ii) The target cost of a cost-plus-incentive-fee prime contract.
 - (iii) The target cost and ceiling price of a fixed-price incentive prime contract.
 - (iv) The price of a firm-fixed-price prime contract.
- (3) The amount of the adjustment to the prime contract is 5 percent of the estimated cost, target cost, or firm-fixed-price included in the subcontract initially awarded to the Indian organization or Indian-owned economic enterprise.
- (4) The Contractor has the burden of proving the amount claimed and must assert its request for an adjustment prior to completion of contract performance.
- (c) The Contracting Officer, subject to the terms and conditions of the contract and the availability of funds, will authorize an incentive payment of 5 percent of the amount paid to the subcontractor. The Contracting Officer will seek funding in accordance with agency procedures.

I.75 - FAR 52.227-23 RIGHTS TO PROPOSAL DATA (TECHNICAL) (JUN 1987)
(PREV. I.36)

Except for data contained on pages so marked in University of California proposal volumes I, II, III, IV, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing thereon, the Government shall have unlimited rights (as defined in the "Rights in Data-General" clause contained in this contract) in and to the technical data contained in the proposal dated February 9, 2005, upon which this contract is based.

I.76 - FAR 52.229-8 TAXES – FOREIGN COST-REIMBURSEMENT CONTRACTS
(MAR 1990) (PREV. I.37)

- (a) Any tax or duty from which the United States Government is exempt by agreement with the Government of the successor states of the former Soviet Union, (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and

Lithuania, and Uzbekistan) or from which the Contractor or any subcontractor under this contract is exempt under the laws of the successor states of the former Soviet Union, (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and Lithuania, and Uzbekistan) shall not constitute an allowable cost under this contract.

- (b) If the Contractor or subcontractor under this contract obtains a foreign tax credit that reduces its Federal income tax liability under the United States Internal Revenue Code (Title 26, U.S. Code) because of the payment of any tax or duty that was reimbursed under this contract, the amount of the reduction shall be paid or credited at the time of such offset to the Government of the United States as the Contracting Officer directs.

I.77 - FAR 52.230-2 COST ACCOUNTING STANDARDS (OCT 2015) (DEVIATION PF 2018-30) (PREV. I.38)

- (a) Unless the contract is exempt under 48 CFR 9903.201-1 and 9903.201-2, the provisions of 48 CFR Part 9903 are incorporated herein by reference and the Contractor, in connection with this contract, shall—
 - (1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractor's cost accounting practices as required by 48 CFR 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.
 - (2) Follow consistently the Contractor's cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with paragraph (a)(4) or (a)(5) of this clause, as appropriate.
 - (3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR Part 9904, in effect on the date of

award of this contract or, if the Contractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the Contractor's signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

- (4)
 - (i) (Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to paragraph (a)(3) of this clause, the Contractor is required to make to the Contractor's established cost accounting practices.
 - (ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of paragraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.
 - (iii) When the parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the Changes clause of this contract.
- (5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if the Contractor or a subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621(a)(2) of the Internal Revenue Code of 1986 (26 U.S.C. 6621(a)(2)) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.
- (b) If the parties fail to agree whether the Contractor or a subcontractor has complied with an applicable CAS in 48 CFR 9904 or a CAS rule or regulation in 48 CFR 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under 41 U.S.C. chapter 71, Contract Disputes.

- (c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.
- (d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the subcontractor's award date or if the subcontractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the subcontractor's signed Certificate of Current Cost or Pricing Data. If the subcontract is awarded to a business unit which pursuant to 48 CFR 9903.201-2 is subject to other types of CAS coverage, the substance of the applicable clause set forth in subsection 30.201-4 of the Federal Acquisition Regulation shall be inserted.

This requirement shall apply only to negotiated subcontracts in excess of \$2 million, except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR 9903.201-1.

I.78 - FAR 52.230-6 ADMINISTRATION OF COST ACCOUNTING STANDARDS (JUN 2010) (PREV. I.39)

For the purpose of administering the Cost Accounting Standards (CAS) requirements under this contract, the Contractor shall take the steps outlined in paragraphs (b) through (i) and (k) through (n) of this clause:

- (a) *Definitions.* As used in this clause—

Affected CAS-covered contract or subcontract means a contract or subcontract subject to CAS rules and regulations for which a Contractor or subcontractor—

- (1) Used one cost accounting practice to estimate costs and a changed cost accounting practice to accumulate and report costs under the contract or subcontract; or
- (2) Used a noncompliant practice for purposes of estimating or accumulating and reporting costs under the contract or subcontract.

Cognizant Federal agency official (CFAO) means the Contracting Officer assigned by the cognizant Federal agency to administer the CAS.

Desirable change means a compliant change to a Contractor's established or disclosed cost accounting practices that the CFAO finds is desirable and not detrimental to the Government and is, therefore, not subject to the no increased

cost prohibition provisions of CAS-covered contracts and subcontracts affected by the change.

Fixed-price contracts and subcontracts means—

- (1) Fixed-price contracts and subcontracts described at FAR 16.202, 16.203, (except when price adjustments are based on actual costs of labor or material, described at 16.203-1(a)(2)), and 16.207;
- (2) Fixed-price incentive contracts and subcontracts where the price is not adjusted based on actual costs incurred (FAR Subpart 16.4);
- (3) Orders issued under indefinite-delivery contracts and subcontracts where final payment is not based on actual costs incurred (FAR Subpart 16.5); and
- (4) The fixed-hourly rate portion of time-and-materials and labor-hours contracts and subcontracts (FAR Subpart 16.6).

Flexibly-priced contracts and subcontracts means—

- (1) Fixed-price contracts and subcontracts described at FAR 16.203-1(a)(2), 16.204, 16.205, and 16.206;
- (2) Cost-reimbursement contracts and subcontracts (FAR Subpart 16.3);
- (3) Incentive contracts and subcontracts where the price may be adjusted based on actual costs incurred (FAR Subpart 16.4);
- (4) Orders issued under indefinite-delivery contracts and subcontracts where final payment is based on actual costs incurred (FAR Subpart 16.5); and
- (5) The materials portion of time-and-materials contracts and subcontracts (FAR Subpart 16.6).

Noncompliance means a failure in estimating, accumulating, or reporting costs to—

- (1) Comply with applicable CAS; or
- (2) Consistently follow disclosed or established cost accounting practices.

Required change means—

- (1) A change in cost accounting practice that a Contractor is required to make in order to comply with applicable Standards, modifications or interpretations thereto, that subsequently become applicable to existing

CAS-covered contracts or subcontracts due to the receipt of another CAS-covered contract or subcontract; or

- (2) A prospective change to a disclosed or established cost accounting practice when the CFAO determines that the former practice was in compliance with applicable CAS and the change is necessary for the Contractor to remain in compliance.

Unilateral change means a change in cost accounting practice from one compliant practice to another compliant practice that a Contractor with a CAS-covered contract(s) or subcontract(s) elects to make that has not been deemed a desirable change by the CFAO and for which the Government will pay no aggregate increased costs.

- (b) Submit to the CFAO a description of any cost accounting practice change as outlined in paragraphs (b)(1) through (3) of this clause (including revisions to the Disclosure Statement, if applicable), and any written statement that the cost impact of the change is immaterial. If a change in cost accounting practice is implemented without submitting the notice required by this paragraph, the CFAO may determine the change to be a failure to follow paragraph (a)(2) of the clause at FAR 52.230-2, Cost Accounting Standards; paragraph (a)(4) of the clause at FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices; paragraph (a)(4) of the clause at FAR 52.230-4, Disclosure and Consistency of Cost Accounting Practices–Foreign Concerns; or paragraph (a)(2) of the clause at FAR 52.230-5, Cost Accounting Standards–Educational Institution.
 - (1) When a description has been submitted for a change in cost accounting practice that is dependent on a contract award and that contract is subsequently awarded, notify the CFAO within 15 days after such award.
 - (2) For any change in cost accounting practice not covered by (b)(1) of this clause that is required in accordance with paragraphs (a)(3) and (a)(4)(i) of the clause at FAR 52.230-2; or paragraphs (a)(3), (a)(4)(i), or (a)(4)(iv) of the clause at FAR 52.230-5; submit a description of the change to the CFAO not less than 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) before implementation of the change.
 - (3) For any change in cost accounting practices proposed in accordance with paragraph (a)(4)(ii) or (iii) of the clauses at FAR 52.230-2 and FAR 52.230-5; or with paragraph (a)(3) of the clauses at FAR 52.230-3 and FAR 52.230-4, submit a description of the change not less than 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) before implementation of the change. If the change includes a proposed retroactive date submit supporting rationale.

- (4) Submit a description of the change necessary to correct a failure to comply with an applicable CAS or to follow a disclosed practice (as contemplated by paragraph (a)(5) of the clause at FAR 52.230-2 and FAR 52.230-5; or by paragraph (a)(4) of the clauses at FAR 52.230-3 and FAR 52.230-4)—
 - (i) Within 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) after the date of agreement with the CFAO that there is a noncompliance; or
 - (ii) In the event of Contractor disagreement, within 60 days after the CFAO notifies the Contractor of the determination of noncompliance.
- (c) When requested by the CFAO, submit on or before a date specified by the CFAO—
 - (1) A general dollar magnitude (GDM) proposal in accordance with paragraph (d) or (g) of this clause. The Contractor may submit a detailed cost-impact (DCI) proposal in lieu of the requested GDM proposal provided the DCI proposal is in accordance with paragraph (e) or (h) of this clause;
 - (2) A detailed cost-impact (DCI) proposal in accordance with paragraph (e) or (h) of this clause;
 - (3) For any request for a desirable change that is based on the criteria in FAR 30.603-2(b)(3)(ii), the data necessary to demonstrate the required cost savings; and
 - (4) For any request for a desirable change that is based on criteria other than that in FAR 30.603-2(b)(3)(ii), a GDM proposal and any other data necessary for the CFAO to determine if the change is a desirable change.
- (d) For any change in cost accounting practice subject to paragraph (b)(1), (b)(2), or (b)(3) of this clause, the GDM proposal shall—
 - (1) Calculate the cost impact in accordance with paragraph (f) of this clause;
 - (2) Use one or more of the following methods to determine the increase or decrease in cost accumulations:
 - (i) A representative sample of affected CAS-covered contracts and subcontracts.
 - (ii) The change in indirect rates multiplied by the total estimated base computed for each of the following groups:

- (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (iii) Any other method that provides a reasonable approximation of the total increase or decrease in cost accumulations for all affected fixed-price and flexibly-priced contracts and subcontracts;
- (3) Use a format acceptable to the CFAO but, as a minimum, include the following data:
- (i) The estimated increase or decrease in cost accumulations by Executive agency, including any impact the change may have on contract and subcontract incentives, fees, and profits, for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (ii) For unilateral changes, the increased or decreased costs to the Government for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts; and
- (4) When requested by the CFAO, identify all affected CAS-covered contracts and subcontracts.
- (e) For any change in cost accounting practice subject to paragraph (b)(1), (b)(2), or (b)(3) of this clause, the DCI proposal shall—
- (1) Show the calculation of the cost impact in accordance with paragraph (f) of this clause;
 - (2) Show the estimated increase or decrease in cost accumulations for each affected CAS-covered contract and subcontract unless the CFAO and Contractor agree to include—
 - (i) Only those affected CAS-covered contracts and subcontracts having an estimate to complete exceeding a specified amount; and
 - (ii) An estimate of the total increase or decrease in cost accumulations for all affected CAS-covered contracts and subcontracts, using the results in paragraph (e)(2)(i) of this clause;

- (3) Use a format acceptable to the CFAO but, as a minimum, include the information in paragraph (d)(3) of this clause; and
 - (4) When requested by the CFAO, identify all affected CAS-covered contracts and subcontracts.
- (f) For GDM and DCI proposals that are subject to the requirements of paragraph (d) or (e) of this clause, calculate the cost impact as follows:
- (1) The cost impact calculation shall include all affected CAS-covered contracts and subcontracts regardless of their status (i.e., open or closed) or the fiscal year in which the costs were incurred (i.e., whether or not the final indirect rates have been established).
 - (2) For unilateral changes—
 - (i) Determine the increased or decreased cost to the Government for flexibly-priced contracts and subcontracts as follows:
 - (A) When the estimated cost to complete using the changed practice exceeds the estimated cost to complete using the current practice, the difference is increased cost to the Government.
 - (B) When the estimated cost to complete using the changed practice is less than the estimated cost to complete using the current practice, the difference is decreased cost to the Government;
 - (ii) Determine the increased or decreased cost to the Government for fixed-priced contracts and subcontracts as follows:
 - (A) When the estimated cost to complete using the changed practice is less than the estimated cost to complete using the current practice, the difference is increased cost to the Government.
 - (B) When the estimated cost to complete using the changed practice exceeds the estimated cost to complete using the current practice, the difference is decreased cost to the Government;
 - (iii) Calculate the total increase or decrease in contract and subcontract incentives, fees, and profits associated with the increased or decreased costs to the Government in accordance with 48 CFR

9903.306(c). The associated increase or decrease is based on the difference between the negotiated incentives, fees, and profits and the amounts that would have been negotiated had the cost impact been known at the time the contracts and subcontracts were negotiated; and

- (iv) Calculate the increased cost to the Government in the aggregate.
- (3) For equitable adjustments for required or desirable changes—
- (i) Estimated increased cost accumulations are the basis for increasing contract prices, target prices and cost ceilings; and
 - (ii) Estimated decreased cost accumulations are the basis for decreasing contract prices, target prices and cost ceilings.
- (g) For any noncompliant cost accounting practice subject to paragraph (b)(4) of this clause, prepare the GDM proposal as follows:
- (1) Calculate the cost impact in accordance with paragraph (i) of this clause.
 - (2) Use one or more of the following methods to determine the increase or decrease in contract and subcontract prices or cost accumulations, as applicable:
 - (i) A representative sample of affected CAS-covered contracts and subcontracts.
 - (ii) When the noncompliance involves cost accumulation the change in indirect rates multiplied by the applicable base for only flexibly-priced contracts and subcontracts.
 - (iii) Any other method that provides a reasonable approximation of the total increase or decrease.
 - (3) Use a format acceptable to the CFAO but, as a minimum, include the following data:
 - (i) The total increase or decrease in contract and subcontract price and cost accumulations, as applicable, by Executive agency, including any impact the noncompliance may have on contract and subcontract incentives, fees, and profits, for each of the following groups:

- (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (ii) The increased or decreased cost to the Government for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (iii) The total overpayments and underpayments made by the Government during the period of noncompliance.
 - (4) When requested by the CFAO, identify all CAS-covered contracts and subcontracts.
- (h) For any noncompliant practice subject to paragraph (b)(4) of this clause, prepare the DCI proposal as follows:
- (1) Calculate the cost impact in accordance with paragraph (i) of this clause.
 - (2) Show the increase or decrease in price and cost accumulations for each affected CAS-covered contract and subcontract unless the CFAO and Contractor agree to—
 - (i) Include only those affected CAS-covered contracts and subcontracts having—
 - (A) Contract and subcontract values exceeding a specified amount when the noncompliance involves estimating costs; and
 - (B) Incurred costs exceeding a specified amount when the noncompliance involves accumulating costs; and
 - (ii) Estimate the total increase or decrease in price and cost accumulations for all affected CAS-covered contracts and subcontracts using the results in paragraph (h)(2)(i) of this clause.
 - (3) Use a format acceptable to the CFAO that, as a minimum, include the information in paragraph (g)(3) of this clause.
 - (4) When requested by the CFAO, identify all CAS-covered contracts and subcontracts.

- (i) For GDM and DCI proposals that are subject to the requirements of paragraph (g) or (h) of this clause, calculate the cost impact as follows:
 - (1) The cost impact calculation shall include all affected CAS-covered contracts and subcontracts regardless of their status (i.e., open or closed) or the fiscal year in which the costs are incurred (i.e., whether or not the final indirect rates have been established).
 - (2) For noncompliances that involve estimating costs, determine the increased or decreased cost to the Government for fixed-price contracts and subcontracts as follows:
 - (i) When the negotiated contract or subcontract price exceeds what the negotiated price would have been had the Contractor used a compliant practice, the difference is increased cost to the Government.
 - (ii) When the negotiated contract or subcontract price is less than what the negotiated price would have been had the Contractor used a compliant practice, the difference is decreased cost to the Government.
 - (3) For noncompliances that involve accumulating costs, determine the increased or decreased cost to the Government for flexibly-priced contracts and subcontracts as follows:
 - (i) When the costs that were accumulated under the noncompliant practice exceed the costs that would have been accumulated using a compliant practice (from the time the noncompliant practice was first implemented until the date the noncompliant practice was replaced with a compliant practice), the difference is increased cost to the Government.
 - (ii) When the costs that were accumulated under the noncompliant practice are less than the costs that would have been accumulated using a compliant practice (from the time the noncompliant practice was first implemented until the date the noncompliant practice was replaced with a compliant practice), the difference is decreased cost to the Government.
 - (4) Calculate the total increase or decrease in contract and subcontracts incentives, fees, and profits associated with the increased or decreased cost to the Government in accordance with 48 CFR 9903.306(c). The associated increase or decrease is based on the difference between the negotiated incentives, fees, and profits and the amounts that would have been negotiated had the Contractor used a compliant practice.

- (5) Calculate the increased cost to the Government in the aggregate.
- (j) If the Contractor does not submit the information required by paragraph (b) or (c) of this clause within the specified time, or any extension granted by the CFAO, the CFAO may take one or both of the following actions:
 - (1) Withhold an amount not to exceed 10 percent of each subsequent amount payment to the Contractor's affected CAS-covered contracts, (up to the estimated general dollar magnitude of the cost impact), until such time as the Contractor provides the required information to the CFAO.
 - (2) Issue a final decision in accordance with FAR 33.211 and unilaterally adjust the contract(s) by the estimated amount of the cost impact.
- (k) Agree to—
 - (1) Contract modifications to reflect adjustments required in accordance with paragraph (a)(4)(ii) or (a)(5) of the clauses at FAR 52.230-2 and 52.230-5; or with paragraph (a)(3)(i) or (a)(4) of the clauses at FAR 52.230-3 and FAR 52.230-4; and
 - (2) Repay the Government for any aggregate increased cost paid to the Contractor.
- (l) For all subcontracts subject to the clauses at FAR 52.230-2, 52.230-3, 52.230-4, or 52.230-5—
 - (1) So state in the body of the subcontract, in the letter of award, or in both (do not use self-deleting clauses);
 - (2) Include the substance of this clause in all negotiated subcontracts; and
 - (3) Within 30 days after award of the subcontract, submit the following information to the Contractor's CFAO:
 - (i) Subcontractor's name and subcontract number.
 - (ii) Dollar amount and date of award.
 - (iii) Name of Contractor making the award.
- (m) Notify the CFAO in writing of any adjustments required to subcontracts under this contract and agree to an adjustment to this contract price or estimated cost and fee. The Contractor shall—

- (1) Provide this notice within 30 days after the Contractor receives the proposed subcontract adjustments; and
 - (2) Include a proposal for adjusting the higher-tier subcontract or the contract appropriately.
- (n) For subcontracts containing the clause or substance of the clause at FAR 52.230 - 2, FAR 52.230-3, FAR 52.230-4, or FAR 52.230-5, require the subcontractor to comply with all Standards in effect on the date of award or of final agreement on price, as shown on the subcontractor's signed Certificate of Current Cost or Pricing Data, whichever is earlier.

I.79 - FAR 52.232-17 INTEREST (MAY 2014) (PREV. I.40)

- (a) Except as otherwise provided in this contract under a Price Reduction for Defective Certified Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in 41 U.S.C. 7109, which is applicable to the period in which the amount becomes due, as provided in paragraph (e) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.
- (b) The Government may issue a demand for payment to the Contractor upon finding a debt is due under the contract.
- (c) Final Decisions. The Contracting Officer will issue a final decision as required by 33.211 if—
 - (1) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt in a timely manner;
 - (2) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or
 - (3) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see 32.607-2).
- (d) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due date as the original demand for payment.

- (e) Amounts shall be due at the earliest of the following dates:
 - (1) The date fixed under this contract.
 - (2) The date of the first written demand for payment, including any demand for payment resulting from a default termination.
- (f) The interest charge shall be computed for the actual number of calendar days involved beginning on the due date and ending on—
 - (1) The date on which the designated office receives payment from the Contractor;
 - (2) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or
 - (3) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.
- (g) The interest charge made under this clause may be reduced under the procedures prescribed in 32.608-2 of the Federal Acquisition Regulation in effect on the date of this contract.

I.80 - FAR 52.232-24 PROHIBITION OF ASSIGNMENT OF CLAIMS (MAY 2014)
(PREV. I.42)

The assignment of claims under the Assignment of Claims Act of 1940 “31 U.S.C. 3727, 41 U.S.C. 6305” is prohibited for this contract.

I.81 - FAR 52.232-39 UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS
(JUN 2013) (PREV. I.153)

- (a) Except as stated in paragraph (b) of this clause, when any supply or service acquired under this contract is subject to any End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement, that includes any clause requiring the Government to indemnify the Contractor or any person or entity for damages, costs, fees, or any other loss or liability that would create an Anti-Deficiency Act violation (31 U.S.C. 1341), the following shall govern:
 - (1) Any such clause is unenforceable against the Government.

- (2) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such clause by virtue of it appearing in the EULA, TOS, or similar legal instrument or agreement. If the EULA, TOS, or similar legal instrument or agreement is invoked through an "I agree" click box or other comparable mechanism (e.g., "click-wrap" or "browse-wrap" agreements), execution does not bind the Government or any Government authorized end user to such clause.
- (3) Any such clause is deemed to be stricken from the EULA, TOS, or similar legal instrument or agreement.
- (b) Paragraph (a) of this clause does not apply to indemnification by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulation and procedures.

I.82 - FAR 52.232-40 PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS (DEC 2013) (PREV. I.154)

- (a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
- (b) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act.
- (c) Include the substance of this clause, including this paragraph (c), in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.

I.83 - FAR 52.233-1 DISPUTES (MAY 2014) (ALTERNATE I) (DEC 1991) (PREV. I.43)

- (a) This contract is subject to 41 U.S.C. chapter 71, Contract Disputes.
- (b) Except as provided in 41 U.S.C. chapter 71, all disputes arising under or relating to this contract shall be resolved under this clause.
- (c) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. However, a written demand or written assertion by the Contractor seeking the payment of money exceeding \$100,000

is not a claim under 41 U.S.C. chapter 71 until certified. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim under 41 U.S.C. chapter 71. The submission may be converted to a claim under 41 U.S.C. chapter 71, by complying with the submission and certification requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.

- (d) (1) A claim by the Contractor shall be made in writing and, unless otherwise stated in this contract, submitted within 6 years after accrual of the claim to the Contracting Officer for a written decision. A claim by the Government against the Contractor shall be subject to a written decision by the Contracting Officer.
- (2) (i) The contractor shall provide the certification specified in paragraph (d)(2)(iii) of this clause when submitting any claim exceeding \$100,000.
- (ii) The certification requirement does not apply to issues in controversy that have not been submitted as all or part of a claim.
- (iii) The certification shall state as follows: "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable; and that I am authorized to certify the claim on behalf of the Contractor."
- (3) The certification may be executed by any person authorized to bind the Contractor with respect to the claim.
- (e) For Contractor claims of \$100,000 or less, the Contracting Officer must, if requested in writing by the Contractor, render a decision within 60 days of the request. For Contractor-certified claims over \$100,000, the Contracting Officer must, within 60 days, decide the claim or notify the Contractor of the date by which the decision will be made.
- (f) The Contracting Officer's decision shall be final unless the Contractor appeals or files a suit as provided in 41 U.S.C. chapter 71.
- (g) If the claim by the Contractor is submitted to the Contracting Officer or a claim by the Government is presented to the Contractor, the parties, by mutual consent, may agree to use alternative dispute resolution (ADR). If the Contractor refuses an offer for ADR, the Contractor shall inform the Contracting Officer, in writing, of the Contractor's specific reasons for rejecting the offer.

- (h) The Government shall pay interest on the amount found due and unpaid from
 - (1) the date that the Contracting Officer receives the claim (certified, if required); or
 - (2) the date that payment otherwise would be due, if that date is later, until the date of payment.

With regard to claims having defective certifications, as defined in FAR 33.201, interest shall be paid from the date that the Contracting Officer initially receives the claim. Simple interest on claims shall be paid at the rate, fixed by the Secretary of the Treasury as provided in the Act, which is applicable to the period during which the Contracting Officer receives the claim and then at the rate applicable for each 6-month period as fixed by the Treasury Secretary during the pendency of the claim.

- (i) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under the contract, and comply with any decision of the Contracting Officer.

I.84 - FAR 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004) (PREV. I.146)

United States law will apply to resolve any claim of breach of this contract.

I.85 - FAR 52.236-8 OTHER CONTRACTS (APR 1984) (PREV. I.45)

The Government may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with Government employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by Government employees.

I.86 - FAR 52.237-3 CONTINUITY OF SERVICES (JAN 1991) (PREV. I.46)

- (a) The Contractor recognizes that the services under this contract are vital to the Government and must be continued without interruption and that, upon contract expiration, a successor, either the Government or another contractor, may continue them. The Contractor agrees to (1) furnish phase-in training, and (2) exercise its best efforts and cooperation to effect an orderly and efficient transition to a successor.

- (b) The Contractor shall, upon the Contracting Officer's written notice, (1) furnish phase-in, phase-out services for up to ninety (90) days after this contract expires and (2) negotiate in good faith a plan with a successor to determine the nature and extent of phase-in, phase-out services required. The plan shall specify a training program and a date for transferring responsibilities for each division of work described in the plan, and shall be subject to the Contracting Officer's approval. The Contractor shall provide sufficient experienced personnel during the phase-in, phase-out period to ensure that the services called for by this contract are maintained at the required level of proficiency.
- (c) The Contractor shall allow as many personnel as practicable to remain on the job to help the successor maintain the continuity and consistency of the services required by this contract. The Contractor also shall disclose necessary personnel records and allow the successor to conduct on-site interviews with these employees. If selected employees are agreeable to the change, the Contractor shall release them at a mutually agreeable date and negotiate transfer of their earned fringe benefits to the successor.
- (d) The Contractor shall be reimbursed for all reasonable phase-in, phase-out costs (i.e., costs incurred within the agreed period after contract expiration that result from phase-in, phase-out operations) and a fee (profit) not to exceed a pro rata portion of the fee (profit) under this contract.

I.87 - FAR 52.242-1 NOTICE OF INTENT TO DISALLOW COSTS (APR 1984) (PREV. I.47)

- (a) Notwithstanding any other clause of this contract --
 - (1) The Contracting Officer may, at any time, issue to the Contractor a written notice of intent to disallow specified costs incurred or planned for incurrence under this contract that have been determined not to be allowable under the contract terms; and
 - (2) The Contractor may, after receiving a notice under subparagraph (1) above, submit a written response to the Contracting Officer, with justification for allowance of the costs. If the Contractor does respond within sixty (60) days, the Contracting Officer shall, within sixty (60) days of receiving the response, either make a written withdrawal of the notice or issue a written decision.
- (b) Failure to issue a notice under this Notice of Intent to Disallow Costs clause shall not affect the Government's rights to take exception to incurred costs.

I.88 - FAR 52.242-5 PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS
(JAN 2017) (PREV. I.165)

(a) *Definitions.* As used in this clause—

Reduced payment means a payment that is for less than the amount agreed upon in a subcontract in accordance with its terms and conditions, for supplies and services for which the Government has paid the prime contractor.

Untimely payment means a payment that is more than 90 days past due under the terms and conditions of a subcontract, for supplies and services for which the Government has paid the prime contractor.

(b) *Notice.* The Contractor shall notify the Contracting Officer, in writing, not later than 14 days after—

(1) A small business subcontractor was entitled to payment under the terms and conditions of the subcontract; and

(2) The Contractor—

(i) Made a reduced or untimely payment to the small business subcontractor; or

(ii) Failed to make a payment, which is now untimely.

(c) *Content of notice.* The Contractor shall include the reason(s) for making the reduced or untimely payment in any notice required under paragraph (b) of this clause.

I.89 - FAR 52.242-13 BANKRUPTCY (JUL 1995) (PREV. I.48)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five (5) days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts against which final payment has not been made. This obligation remains in effect until final payment under this contract.

I.90 - FAR 52.244-5 COMPETITION IN SUBCONTRACTING (DEC 1996) (PREV. I.49)

- (a) The Contractor shall select subcontractors (including suppliers) on a competitive basis to the maximum practical extent consistent with the objectives and requirements of the contract.
- (b) If the Contractor is an approved mentor under the Department of Defense Pilot Mentor-Protégé Program (Pub. L. 101-510, section 831 as amended), the Contractor may award subcontracts under this contract on a noncompetitive basis to its protégés.

I.91 - FAR 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (AUG 2019) (PREV. I.50)

- (a) *Definitions.* As used in this clause—

Commercial item and “commercially available off-the-shelf item” have the meanings contained in Federal Acquisition Regulation 2.101, Definitions.

Subcontract includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

- (b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or non-developmental items as components of items to be supplied under this contract.
- (c)
 - (1) The Contractor shall insert the following clauses in subcontracts for commercial items:
 - (i) 52.203-13, Contractor Code of Business Ethics and Conduct (Oct 2015) (41 U.S.C. 3509), if the subcontract exceeds \$5.5 million and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.
 - (ii) 52.203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.
 - (iii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017).

- (iv) 52.204-21, Basic Safeguarding of Covered Contractor Information Systems (JUN 2016), other than subcontracts for commercially available off-the-shelf items, if flow down is required in accordance with paragraph (c) of FAR clause 52.204-21.
- (v) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).
- (vi) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (Aug 2019) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (vii) 52.219-8, Utilization of Small Business Concerns (Oct 2018) (15 U.S.C.637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (viii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (ix) 52.222-26, Equal Opportunity (Sept 2016) (E.O.11246).
- (x) 52.222-35, Equal Opportunity for Veterans (Oct 2015) (38 U.S.C.4212(a));
- (xi) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C.793).
- (xii) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C.4212)
- (xiii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xiv) (A) 52.222-50, Combating Trafficking in Persons (JAN 2019) (22 U.S.C. chapter 78 and E.O. 13627).
(B) Alternate I (MAR 2015 of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

- (xv) 52.222-55, Minimum Wages under Executive Order 13658 (DEC 2015), if flow down is required in accordance with paragraph (k) of FAR clause 52.222-55.
- (xvi) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706), if flow down is required in accordance with paragraph (m) of FAR clause 52.222-62.
- (xvii) (A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a) if flow down is required in accordance with 52.224-3(f).
- (B) Alternate I (JAN 2017) of 52.224-3, if flow down is required in accordance with 52.224-3(f) and the agency specifies that only its agency-provided training is acceptable).
- (xviii) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xix) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (DEC 2013), if flow down is required in accordance with paragraph (c) of FAR clause 52.232-40.
- (xx) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. App.1241 and 10 U.S.C.2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64).
- (2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

I.92 - FAR 52.247-1 COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)
(PREV. I.51)

When the Contracting Officer authorizes supplies to be shipped on a commercial bill of lading and the Contractor will be reimbursed these transportation costs as direct allowable costs, the Contractor shall ensure before shipment is made that the commercial shipping documents are annotated with either of the following notations, as appropriate:

- (a) If the Government is shown as the consignor or the consignee, the annotation shall be:

Transportation is for the U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the Government.

- (b) If the Government is not shown as the consignor or the consignee, the annotation shall be:

Transportation is for the U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by the Government, pursuant to cost-reimbursement contract No. DE-AC02-05CH11231. This may be confirmed by contacting the U.S. Department of Energy, Bay Area Site Office, 1 Cyclotron Road, MS: 90-1023, Berkeley, CA 94720.

I.93 - FAR 52.247-63 PREFERENCE FOR U.S.-FLAG AIR CARRIERS (JUN 2003)
(PREV. I.52)

- (a) *Definitions.* As used in this clause --

International air transportation means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States.

United States means the 50 States, the District of Columbia, and outlying areas.

U.S.-flag air carrier means an air carrier holding a certificate under 49 U.S.C. Chapter 411.

- (b) Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America-Act) requires that all Federal agencies and Government contractors and subcontractors use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
- (c) If available, the Contractor, in performing work under this contract, shall use U.S.- flag air carriers for international air transportation of personnel (and their personal effects) or property.

- (d) In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

STATEMENT OF UNAVAILABILITY OF U.S.-FLAG AIR CARRIERS

International air transportation of persons (and their personal effects) or property by U.S.-flag air carrier was not available or it was necessary to use foreign-flag air carrier service for the following reasons (see section 47.403 of the Federal Acquisition Regulation):

[State reasons]:

(End of statement)

- (e) The Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase order under this contract that may involve international air transportation.

I.94 - FAR 52.247-64 PREFERENCE FOR PRIVATELY OWNED U.S.-FLAG COMMERCIAL VESSELS (FEB 2006) (PREV. I.53)

- (a) Except as provided in paragraph (e) of this clause, the Cargo Preference Act of 1954 (46 U.S.C. App. 1241(b)) requires that Federal departments and agencies shall transport in privately owned U.S.-flag commercial vessels at least 50 percent of the gross tonnage of equipment, materials, or commodities that may be transported in ocean vessels (computed separately for dry bulk carriers, dry cargo liners, and tankers). Such transportation shall be accomplished when any equipment, materials, or commodities, located within or outside the United States, that may be transported by ocean vessel are --
- (1) Acquired for a U.S. Government agency account;
 - (2) Furnished to, or for the account of, any foreign nation without provision for reimbursement;
 - (3) Furnished for the account of a foreign nation in connection with which the United States advances funds or credits, or guarantees the convertibility of foreign currencies; or
 - (4) Acquired with advance of funds, loans, or guaranties made by or on behalf of the United States.

- (b) The Contractor shall use privately owned U.S.-flag commercial vessels to ship at least 50 percent of the gross tonnage involved under this contract (computed separately for dry bulk carriers, dry cargo liners, and tankers) whenever shipping any equipment, materials, or commodities under the conditions set forth in paragraph (a) above, to the extent that such vessels are available at rates that are fair and reasonable for privately owned U.S.-flag commercial vessels.
- (c) (1) The Contractor shall submit one legible copy of a rated on-board ocean bill of lading for each shipment to both --
 - (i) The Contracting Officer, and
 - (ii) The:
Office of Cargo Preference
Maritime Administration (MAR-590)
400 Seventh Street, SW Washington DC 20590

Subcontractor bills of lading shall be submitted through the Prime Contractor.

- (2) The Contractor shall furnish these bill of lading copies (i) within 20 working days of the date of loading for shipments originating in the United States, or (ii) within 30 working days for shipments originating outside the United States. Each bill of lading copy shall contain the following information:
 - (A) Sponsoring U.S. Government agency.
 - (B) Name of vessel.
 - (C) Vessel flag of registry.
 - (D) Date of loading.
 - (E) Port of loading.
 - (F) Port of final discharge.
 - (G) Description of commodity.
 - (H) Gross weight in pounds and cubic feet if available.
 - (I) Total ocean freight revenue in U.S. dollars.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts or purchase orders under this contract, except those described in paragraph (e)(4).

- (e) The requirement in paragraph (a) does not apply to --
- (1) Cargoes carried in vessels as required or authorized by law or treaty;
 - (2) Ocean transportation between foreign countries of supplies purchased with foreign currencies made available, or derived from funds that are made available, under the Foreign Assistance Act of 1961 (22 U.S.C. 2353);
 - (3) Shipments of classified supplies when the classification prohibits the use of non-Government vessels; and
 - (4) Subcontracts or purchase orders for the acquisition of commercial items unless –
 - (i) This contract is –
 - (A) A contract or agreement for ocean transportation services; or
 - (B) A construction contract; or
 - (ii) The supplies being transported are –
 - (A) Items the Contractor is reselling or distributing to the Government without adding value. (Generally, the Contractor does not add value to the items when it subcontracts items for f.o.b. destination shipment); or
 - (B) Shipped in direct support of U.S. military –
 - (1) Contingency operations;
 - (2) Exercises; or
 - (3) Forces deployed in connection with United Nations or North Atlantic Treaty Organization humanitarian or peacekeeping operations.
- (f) Guidance regarding fair and reasonable rates for privately owned U.S.-flag commercial vessels may be obtained from the:

Office of Costs and Rates
Maritime Administration
400 Seventh Street, SW
Washington DC 20590
Phone: 202-366-4610.

I.95 - FAR 52.247-67 SUBMISSION OF TRANSPORTATION DOCUMENTS FOR
AUDIT (FEB 2006) (PREV. I.54)

- (a) The Contractor shall submit to the address identified below, for prepayment audit, transportation documents on which the United States will assume freight charges that were paid --
 - (1) By the Contractor under a cost-reimbursement contract; and
 - (2) By a first-tier subcontractor under a cost-reimbursement subcontract thereunder.
- (b) Cost-reimbursement Contractors shall only submit for audit those bills of lading with freight shipment charges exceeding \$100.00. Bills under \$100.00 shall be retained on-site by the Contractor and made available for on-site audits. This exception only applies to freight shipment bills and is not intended to apply to bills and invoices for any other transportation services.
- (c) Contractors shall submit the above referenced transportation documents to –
The Address in Clause G.3 of the contract.

I.96 - FAR 52.249-6 TERMINATION (COST-REIMBURSEMENT)(MAY 2004)
MODIFIED BY DEAR 970.4905-1 (DEC 2000) (PREV. I.55)

- (a) The Government may terminate performance of work under this contract in whole or, from time to time, in part, if --
 - (1) The Contracting Officer determines that a termination is in the Government's interest; or
 - (2) The Contractor defaults in performing this contract and fails to cure the default within 10 days (unless extended by the Contracting Officer) after receiving a notice specifying the default. "Default" includes failure to make progress in the work so as to endanger performance.

- (b) The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying whether termination is for default of the Contractor or for convenience of the Government, the extent of termination, and the effective date. If, after termination for default, it is determined that the Contractor was not in default or that the Contractor's failure to perform or to make progress in performance is due to causes beyond the control and without the fault or negligence of the Contractor as set forth in the Excusable Delays clause, the rights and obligations of the parties will be the same as if the termination was for the convenience of the Government.
- (c) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
 - (1) Stop work as specified in the notice.
 - (2) Place no further subcontracts or orders (referred to as subcontracts in this clause), except as necessary to complete the continued portion of the contract.
 - (3) Terminate all subcontracts to the extent they relate to the work terminated.
 - (4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or to pay any termination settlement proposal arising out of those terminations.
 - (5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts, the cost of which would be reimbursable in whole or in part, under this contract; approval or ratification will be final for purposes of this clause.
 - (6) Transfer title (if not already transferred) and, as directed by the Contracting Officer, deliver to the Government --
 - (i) The fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated;
 - (ii) The completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Government; and

- (iii) The jigs, dies, fixtures, and other special tools and tooling acquired or manufactured for this contract, the cost of which the Contractor has been or will be reimbursed under this contract.
- (7) Complete performance of the work not terminated.
- (8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.
- (9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (c)(6) of this clause; provided, however, that the Contractor (i) is not required to extend credit to any purchaser and (ii) may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.
- (d) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.
- (e) After expiration of the plant clearance period as defined in Subpart 49.001 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept the items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.
- (f) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1-year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may

determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.

- (g) Subject to paragraph (f) of this clause, the Contractor and the Contracting Officer may agree on the whole or any part of the amount to be paid (including an allowance for fee) because of the termination. The contract shall be amended, and the Contractor paid the agreed amount.
- (h) If the Contractor and the Contracting Officer fail to agree in whole or in part on the amount of costs and/or fee to be paid because of the termination of work, the Contracting Officer shall determine, on the basis of information available, the amount, if any, due the Contractor, and shall pay that amount, which shall include the following:
 - (1) All costs reimbursable under this contract, not previously paid, for the performance of this contract before the effective date of the termination, and those costs that may continue for a reasonable time with the approval of or as directed by the Contracting Officer; however, the Contractor shall discontinue those costs as rapidly as practicable.
 - (2) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subparagraph (h)(1) of this clause.
 - (3) The reasonable costs of settlement of the work terminated, including—
 - (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
 - (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
 - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory. If the termination is for default, no amounts for the preparation of the Contractor's termination settlement proposal may be included.
 - (4) A portion of the fee payable under the contract, determined as follows:
 - (i) If the contract is terminated for the convenience of the Government, the settlement shall include a percentage of the fee equal to the percentage of completion of work contemplated under the contract, but excluding subcontract effort included in subcontractors' termination proposals, less previous payments for fee.

- (ii) If the contract is terminated for default, the total fee payable shall be such proportionate part of the fee as the total number of articles (or amount of services) delivered to and accepted by the Government is to the total number of articles (or amount of services) of a like kind required by the contract.
- (5) If the settlement includes only fee, it will be determined under subparagraph (h)(4) of this clause.
- (i) The cost principles and procedures in Part 31 of the Federal Acquisition Regulation, as supplemented in Subpart 970.31 of the Department of Energy Acquisition Regulation, in effect on the date of this contract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (f), (h), or (l) of this clause, except that if the Contractor failed to submit the termination settlement proposal within the time provided in paragraph (f) and failed to request a time extension, there is no right of appeal. If the Contracting Officer has made a determination of the amount due under paragraph (f), (h) or (l) of this clause, the Government shall pay the Contractor --
 - (1) The amount determined by the Contracting Officer if there is no right of appeal or if no timely appeal has been taken; or
 - (2) The amount finally determined on an appeal.
- (k) In arriving at the amount due the Contractor under this clause, there shall be deducted --
 - (1) All unliquidated advance or other payments to the Contractor, under the terminated portion of this contract;
 - (2) Any claim which the Government has against the Contractor under this contract; and
 - (3) The agreed price for, or the proceeds of sale of materials, supplies, or other things acquired by the Contractor or sold under this clause and not recovered by or credited to the Government.
- (l) The Contractor and Contracting Officer must agree to any equitable adjustment in fee for the continued portion of the contract when there is a partial termination. The Contracting Officer shall amend the contract to reflect the agreement.
- (m) (1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor

for the terminated portion of the contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.

- (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charge on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.
- (n) The provisions of this clause relating to fee are inapplicable if this contract does not include a fee.

I.97 - FAR 52.249-14 EXCUSABLE DELAYS (APR 1984) (PREV. I.56)

- (a) Except for defaults of subcontractors at any tier, the Contractor shall not be in default because of any failure to perform this contract under its terms if the failure arises from causes beyond the control and without the fault or negligence of the Contractor. Examples of these causes are (1) acts of God or of the public enemy, (2) acts of the Government in either its sovereign or contractual capacity, (3) fires, (4) floods, (5) epidemics, (6) quarantine restrictions, (7) strikes, (8) freight embargoes, and (9) unusually severe weather. In each instance, the failure to perform must be beyond the control and without the fault or negligence of the Contractor. Default includes failure to make progress in the work so as to endanger performance.
- (b) If the failure to perform is caused by the failure of a subcontractor at any tier to perform or make progress, and if the cause of the failure was beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either, the Contractor shall not be deemed to be in default, unless --
 - (1) The subcontracted supplies or services were obtainable from other sources;
 - (2) The Contracting Officer ordered the Contractor in writing to purchase these supplies or services from the other source; and
 - (3) The Contractor failed to comply reasonably with this order.

- (c) Upon request of the Contractor, the Contracting Officer shall ascertain the facts and extent of the failure. If the Contracting Officer determines that any failure to perform results from one or more of the causes above, the delivery schedule shall be revised, subject to the rights of the Government under the termination clause of this contract.

I.98 - FAR 52.250-1 INDEMNIFICATION UNDER PUBLIC LAW 85-804 (APR1984)
ALTERNATE I (APR 1984) (PREV. I.170)

- (a) "Contractor's principal officials," as used in this clause, means directors, officers, managers, superintendents, or other representatives supervising or directing-
 - (1) All or substantially all of the Contractor's business;
 - (2) All or substantially all of the Contractor's operations at any one plant or separate location in which this contract is being performed; or
 - (3) A separate and complete major industrial operation in connection with the performance of this contract.
- (b) Under Public Law 85-804 (50 U.S.C. 1431-1435) and Executive Order 10789, as amended, and regardless of any other provisions of this contract, the Government shall, subject to the limitations contained in the other paragraphs of this clause, indemnify the Contractor against-
 - (1) Claims (including reasonable expenses of litigation or settlement) by third persons (including employees of the Contractor) for death; personal injury; or loss of, damage to, or loss of use of property;
 - (2) Loss of, damage to, or loss of use of Contractor property, excluding loss of profit; and
 - (3) Loss of, damage to, or loss of use of Government property, excluding loss of profit.
- (c) This indemnification applies only to the extent that the claim, loss, or damage (1) arises out of or results from a risk defined in this contract as unusually hazardous or nuclear and (2) is not compensated for by insurance or otherwise. Any such claim, loss, or damage, to the extent that it is within the deductible amounts of the Contractor's insurance, is not covered under this clause. If insurance coverage or other financial protection in effect on the date the approving official authorizes use of this clause is reduced, the Government's liability under this clause shall not increase as a result.

- (d) When the claim, loss, or damage is caused by willful misconduct or lack of good faith on the part of any of the Contractor's principal officials, the Contractor shall not be indemnified for-
 - (1) Government claims against the Contractor (other than those arising through subrogation); or
 - (2) Loss or damage affecting the Contractor's property.
- (e) With the Contracting Officer's prior written approval, the Contractor may, in any subcontract under this contract, indemnify the subcontractor against any risk defined in this contract as unusually hazardous or nuclear. This indemnification shall provide, between the Contractor and the subcontractor, the same rights and duties, and the same provisions for notice, furnishing of evidence or proof, and Government settlement or defense of claims as this clause provides. The Contracting Officer may also approve indemnification of subcontractors at any lower tier, under the same terms and conditions. The Government shall indemnify the Contractor against liability to subcontractors incurred under subcontract provisions approved by the Contracting Officer.
- (f) The rights and obligations of the parties under this clause shall survive this contract's termination, expiration, or completion. The Government shall make no payment under this clause unless the agency head determines that the amount is just and reasonable. The Government may pay the Contractor or subcontractors, or may directly pay parties to whom the Contractor or subcontractors may be liable.
- (g) The Contractor shall-
 - (1) Promptly notify the Contracting Officer of any claim or action against, or any loss by, the Contractor or any subcontractors that may be reasonably be expected to involve indemnification under this clause;
 - (2) Immediately furnish to the Government copies of all pertinent papers the Contractor receives;
 - (3) Furnish evidence or proof of any claim, loss, or damage covered by this clause in the manner and form the Government requires; and
 - (4) Comply with the Government's directions and execute any authorizations required in connection with settlement or defense of claims or actions.
- (h) The Government may direct, control, or assist in settling or defending any claim or action that may involve indemnification under this clause.

- (i) The cost of insurance (including self-insurance programs) covering a risk defined in this contract as unusually hazardous or nuclear shall not be reimbursed except to the extent that the Contracting Officer has required or approved this insurance. The Government's obligations under this clause are-
 - (1) Excepted from the release required under this contract's clause relating to allowable cost; and
 - (2) Not affected by this contract's Limitation of Cost or Limitation of Funds clause.

I.99 - FAR 52.251-1 GOVERNMENT SUPPLY SOURCES (APR 2012) [SC
ALTERNATE APR 2018] (PREV. I.57)

The Contracting Officer may issue the Contractor an authorization to use Government supply sources in the performance of this contract. Title to all property acquired by the Contractor under such an authorization shall vest in the Government unless otherwise specified in the contract. The provisions of the Section I Clause DEAR 970.5245-1 entitled "Property," apply to all property acquired under such authorization.

I.100 - FAR 52.251-2 INTERAGENCY FLEET MANAGEMENT SYSTEM VEHICLES
AND RELATED SERVICES (JAN 1991) (PREV. I.58)

The Contracting Officer may issue the Contractor an authorization to obtain interagency fleet management system (IFMS) vehicles and related services for use in the performance of this contract. The use, service, and maintenance of interagency fleet management system vehicles and the use of related services by the Contractor shall be in accordance with 41 CFR 101-39 and 41 CFR 101-38.301-1.

I.101 - FAR 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984) (PREV. I.59)

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or contract of any Department of Energy Acquisition Regulation (48 CFR Chapter 9) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

I.102 - FAR 52.253-1 COMPUTER GENERATED FORMS (JAN 1991) (PREV. I.60)

- (a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.
- (b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.
- (c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the parties will be determined based on the content of the required form.

I.103 - DEAR 952.203-70 WHISTLEBLOWER PROTECTION FOR CONTRACTOR EMPLOYEES (DEC 2000) (PREV. I.61)

- (a) The Contractor shall comply with the requirements of "DOE Contractor Employee Protection Program" at 10 CFR part 708 for work performed on behalf of DOE directly related to activities at DOE-owned or -leased sites.
- (b) The Contractor shall insert or have inserted the substance of this clause, including this paragraph (b), in subcontracts at all tiers, for subcontracts involving work performed on behalf of DOE directly related to activities at DOE-owned or -leased sites

I.104 - DEAR 952.204-2 SECURITY (AUG 2016) (PREV. I.159)

- (a) *Responsibility.* It is the Contractor's duty to protect all classified information, special nuclear material, and other DOE property. The Contractor shall, in accordance with DOE security regulations and requirements, be responsible for protecting all classified information and all classified matter (including documents, material and special nuclear material) which are in the Contractor's possession in connection with the performance of work under this contract against sabotage, espionage, loss or theft. Except as otherwise expressly provided in this contract, the Contractor shall, upon completion or termination of this contract, transmit to DOE any classified matter or special nuclear material in the possession of the Contractor or any person under the Contractor's control in connection with performance of this contract. If retention by the Contractor of any classified matter is required after the completion or termination of the contract,

the Contractor shall identify the items and classification levels and categories of matter proposed for retention, the reasons for the retention, and the proposed period of retention. If the retention is approved by the Contracting Officer, the security provisions of the contract shall continue to be applicable to the classified matter retained. Special nuclear material shall not be retained after the completion or termination of the contract.

- (b) *Regulations.* The Contractor agrees to comply with all security regulations and contract requirements of DOE as incorporated into the contract.
- (c) *Definition of classified information.* The term Classified Information means information that is classified as Restricted Data or Formerly Restricted Data under the Atomic Energy Act of 1954, or information determined to require protection against unauthorized disclosure under Executive Order 12958, Classified National Security Information, as amended, or prior executive orders, which is identified as National Security Information.
- (d) *Definition of restricted data.* The term Restricted Data means all data concerning design, manufacture, or utilization of atomic weapons; production of special nuclear material; or use of special nuclear material in the production of energy, but excluding data declassified or removed from the Restricted Data category pursuant to 42 U.S.C. 2162 [Section 142, as amended, of the Atomic Energy Act of 1954].
- (e) *Definition of formerly restricted data.* The term "Formerly Restricted Data" means information removed from the Restricted Data category based on a joint determination by DOE or its predecessor agencies and the Department of Defense that the information—(1) Relates primarily to the military utilization of atomic weapons; and (2) can be adequately protected as National Security Information. However, such information is subject to the same restrictions on transmission to other countries or regional defense organizations that apply to Restricted Data.
- (f) *Definition of national security information.* The term "National Security Information" means information that has been determined, pursuant to Executive Order 12958, Classified National Security Information, as amended, or any predecessor order, to require protection against unauthorized disclosure, and that is marked to indicate its classified status when in documentary form.
- (g) *Definition of special nuclear material.* The term "special nuclear material" means—(1) Plutonium, uranium enriched in the isotope 233 or in the isotope 235, and any other material which, pursuant to 42 U.S.C. 2071 [section 51 as amended, of the Atomic Energy Act of 1954] has been determined to be special nuclear material, but does not include source material; or (2) any material artificially enriched by any of the foregoing, but does not include source material.

(h) *Access authorizations of personnel.*

- (1) The Contractor shall not permit any individual to have access to any classified information or special nuclear material, except in accordance with the Atomic Energy Act of 1954, and the DOE's regulations and contract requirements applicable to the particular level and category of classified information or particular category of special nuclear material to which access is required.
- (2) The Contractor must conduct a thorough review, as defined at 48 CFR 904.401, of an uncleared applicant or uncleared employee, and must test the individual for illegal drugs, prior to selecting the individual for a position requiring a DOE access authorization.
 - (i) A review must—Verify an uncleared applicant's or uncleared employee's educational background, including any high school diploma obtained within the past five years, and degrees or diplomas granted by an institution of higher learning; contact listed employers for the last three years and listed personal references; conduct local law enforcement checks when such checks are not prohibited by state or local law or regulation and when the uncleared applicant or uncleared employee resides in the jurisdiction where the Contractor is located; and conduct a credit check and other checks as appropriate.
 - (ii) Contractor reviews are not required for an applicant for DOE access authorization who possesses a current access authorization from DOE or another Federal agency, or whose access authorization may be reapproved without a federal background investigation pursuant to Executive Order 12968, Access to Classified Information (August 4, 1995), Sections 3.3(c) and (d).
 - (iii) In collecting and using this information to make a determination as to whether it is appropriate to select an uncleared applicant or uncleared employee to a position requiring an access authorization, the Contractor must comply with all applicable laws, regulations, and Executive Orders, including those—(A) Governing the processing and privacy of an individual's information, such as the Fair Credit Reporting Act, Americans with Disabilities Act (ADA), and Health Insurance Portability and Accountability Act; and (B) prohibiting discrimination in employment, such as under the ADA, Title VII and the Age Discrimination in Employment Act, including with respect to pre- and post-offer of employment disability related questioning.

- (iv) In addition to a review, each candidate for a DOE access authorization must be tested to demonstrate the absence of any illegal drug, as defined in 10 CFR 707.4. All positions requiring access authorizations are deemed testing designated positions in accordance with 10 CFR part 707. All employees possessing access authorizations are subject to applicant, random or for cause testing for use of illegal drugs. DOE will not process candidates for a DOE access authorization unless their tests confirm the absence from their system of any illegal drug.
- (v) When an uncleared applicant or uncleared employee receives an offer of employment for a position that requires a DOE access authorization, the Contractor shall not place that individual in such a position prior to the individual's receipt of a DOE access authorization, unless an approval has been obtained from the head of the cognizant local security office. If the individual is hired and placed in the position prior to receiving an access authorization, the uncleared employee may not be afforded access to classified information or matter or special nuclear material (in categories requiring access authorization) until an access authorization has been granted.
- (vi) The Contractor must maintain a record of information concerning each uncleared applicant or uncleared employee who is selected for a position requiring an access authorization. Upon request only, the following information will be furnished to the head of the cognizant local DOE Security Office:
 - (A) The date(s) each Review was conducted;
 - (B) Each entity that provided information concerning the individual;
 - (C) A certification that the review was conducted in accordance with all applicable laws, regulations, and Executive Orders, including those governing the processing and privacy of an individual's information collected during the review;
 - (D) A certification that all information collected during the review was reviewed and evaluated in accordance with the Contractor's personnel policies; and
 - (E) The results of the test for illegal drugs.
- (i) *Criminal liability.* It is understood that disclosure of any classified information relating to the work or services ordered hereunder to any person not entitled to

receive it, or failure to protect any classified information, special nuclear material, or other Government property that may come to the Contractor or any person under the Contractor's control in connection with work under this contract, may subject the Contractor, its agents, employees, or Subcontractors to criminal liability under the laws of the United States (see the Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq.; 18 U.S.C. 793 and 794).

(j) *Foreign ownership, control, or influence.*

- (1) The Contractor shall immediately provide the cognizant security office written notice of any change in the extent and nature of foreign ownership, control or influence over the Contractor which would affect any answer to the questions presented in the Standard Form (SF) 328, Certificate Pertaining to Foreign Interests, executed prior to award of this contract. The Contractor will submit the Foreign Ownership, Control or Influence (FOCI) information in the format directed by DOE. When completed the Contractor must print and sign one copy of the SF 328 and submit it to the Contracting Officer. In addition, any notice of changes in ownership or control which are required to be reported to the Securities and Exchange Commission, the Federal Trade Commission, or the Department of Justice, shall also be furnished concurrently to the Contracting Officer.
- (2) If a Contractor has changes involving foreign ownership, control, or influence, DOE must determine whether the changes will pose an undue risk to the common defense and security. In making this determination, DOE will consider proposals made by the Contractor to avoid or mitigate foreign influences.
- (3) If the cognizant security office at any time determines that the Contractor is, or is potentially, subject to foreign ownership, control, or influence, the Contractor shall comply with such instructions as the Contracting Officer shall provide in writing to protect any classified information or special nuclear material.
- (4) The Contracting Officer may terminate this contract for default either if the Contractor fails to meet obligations imposed by this clause or if the Contractor creates a foreign ownership, control, or influence situation in order to avoid performance or a termination for default. The Contracting Officer may terminate this contract for convenience if the Contractor becomes subject to foreign ownership, control, or influence and for reasons other than avoidance of performance of the contract, cannot, or chooses not to, avoid or mitigate the foreign ownership, control, or influence problem.

(k) *Employment announcements.* When placing announcements seeking applicants for positions requiring access authorizations, the Contractor shall include in the

written vacancy announcement, a notification to prospective applicants that reviews, and tests for the absence of any illegal drug as defined in 10 CFR 707.4, will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment, and that subsequent reinvestigations may be required. If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR part 709, the announcement should also alert applicants that successful completion of a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

- (l) *Flow down to subcontracts.* The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph, in all subcontracts under its contract that will require subcontractor employees to possess access authorizations. Additionally, the Contractor must require such subcontractors to have an existing DOD or DOE facility clearance or submit a completed SF 328, Certificate Pertaining to Foreign Interests, as required in 48 CFR 952.204-73, Facility Clearance, and obtain a foreign ownership, control and influence determination and facility clearance prior to award of a subcontract. Information to be provided by a subcontractor pursuant to this clause may be submitted directly to the Contracting Officer. For purposes of this clause, subcontractor means any subcontractor at any tier and the term "Contracting Officer" means the DOE Contracting Officer. When this clause is included in a subcontract, the term "Contractor" shall mean subcontractor and the term "contract" shall mean subcontract.

I.105 - DEAR 952.204-71 SENSITIVE FOREIGN NATIONS CONTROLS (MAR 2011)
(PREV. I.62)

- (a) In connection with any activities in the performance of this contract, the Contractor agrees to comply with the "Sensitive Foreign Nations Controls" requirements attached to this contract, relating to those countries, which may from time to time, be identified to the Contractor by written notice as sensitive foreign nations. The Contractor shall have the right to terminate its performance under this contract upon at least 60 days' prior written notice to the Contracting Officer if the Contractor determines that it is unable, without substantially interfering with its policies or without adversely impacting its performance to continue performance of the work under this contract as a result of such notification. If the Contractor elects to terminate performance, the provisions of this contract regarding termination for the convenience of the Government shall apply.
- (b) The provisions of this clause shall be included in any subcontracts which may involve making unclassified information about nuclear technology available to sensitive foreign nations.

I.106 - DEAR 952.204-72 DISCLOSURE OF INFORMATION (APR 1994) (PREV. I.63)

- (a) It is mutually expected that the activities under this contract will not involve classified information. It is understood, however, that if in the opinion of either party, this expectation changes prior to the expiration or terminating of all activities under this contract, said party shall notify the other party accordingly in writing without delay. In any event, the Contractor shall classify, safeguard, and otherwise act with respect to all classified information in accordance with applicable law and the requirements of DOE, and shall promptly inform DOE in writing if and when classified information becomes involved, or in the mutual judgment of the parties it appears likely that classified information or material may become involved. The Contractor shall have the right to terminate performance of the work under this contract and in such event the provisions of this contract respecting termination for the convenience of the Government shall apply.
- (b) The Contractor shall not permit any individual to have access to classified information except in accordance with the Atomic Energy Act 1954, as amended, Executive Order 12356, and DOE's regulations or requirements.
- (c) The term Restricted Data as used in this article means all data concerning the design, manufacture, or utilization of atomic weapons, the production of special nuclear material or the use of special nuclear material in the production of energy, but shall not include data declassified or removed from the Restricted Data category pursuant to section 142 of the Atomic Energy Act of 1954, as amended.

I.107- DEAR 952.204-75 PUBLIC AFFAIRS (DEC 2000) (PREV. I.64)

- (a) The Contractor must cooperate with the Department in releasing unclassified information to the public and news media regarding DOE policies, programs, and activities relating to its effort under the contract. The responsibilities under this clause must be accomplished through coordination with the Contracting Officer and appropriate DOE public affairs personnel in accordance with procedures defined by the Contracting Officer.
- (b) The Contractor is responsible for the development, planning, and coordination of proactive approaches for the timely dissemination of unclassified information regarding DOE activities onsite and offsite, including, but not limited to, operations and programs. Proactive public affairs programs may utilize a variety of communication media, including public workshops, meetings or hearings, open houses, newsletters, press releases, conferences, audio/visual presentations, speeches, forums, tours, and other appropriate stakeholder interactions.

- (c) The Contractor's internal procedures must ensure that all releases of information to the public and news media are coordinated through, and approved by, a management official at an appropriate level within the Contractor's organization.
- (d) The Contractor must comply with DOE procedures for obtaining advance clearances on oral, written, and audio/visual informational material prepared for public dissemination or use.
- (e) Unless prohibited by law, and in accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of communications or contacts with Members of Congress relating to the effort performed under the contract.
- (f) In accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of activities or situations that may attract regional or national news media attention and of non-routine inquiries from national news media relating to the effort performed under the contract.
- (g) In releases of information to the public and news media, the Contractor must fully and accurately identify the Contractor's relationship to the Department and fully and accurately credit the Department for its role in funding programs and projects resulting in scientific, technical, and other achievements.

I.108 - DEAR 952.204-77 COMPUTER SECURITY (AUG 2006) (PREV. I.124)

- (a) *Definitions.*
 - (1) *Computer* means desktop computers, portable computers, computer networks (including the DOE Network and local area networks at or controlled by DOE organizations), network devices, automated information systems, and or other related computer equipment owned by, leased, or operated on behalf of the DOE.
 - (2) *Individual* means a DOE contractor or subcontractor employee, or any other person who has been granted access to a DOE computer or to information on a DOE computer, and does not include a member of the public who sends an e-mail message to a DOE computer or who obtains information available to the public on DOE Web sites.
- (b) *Access to DOE computers.* A contractor shall not allow an individual to have access to information on a DOE computer unless--
 - (1) The individual has acknowledged in writing that the individual has no expectation of privacy in the use of a DOE computer; and,

- (2) The individual has consented in writing to permit access by an authorized investigative agency to any DOE computer used during the period of that individual's access to information on a DOE computer, and for a period of three years thereafter.
- (c) *No expectation of privacy.* Notwithstanding any other provision of law (including any provision of law enacted by the Electronic Communications Privacy Act of 1986), no individual using a DOE computer shall have any expectation of privacy in the use of that computer.
- (d) *Written records.* The Contractor is responsible for maintaining written records for itself and subcontractors demonstrating compliance with the provisions of paragraph (b) of this section. The Contractor agrees to provide access to these records to the DOE, or its authorized agents, upon request.
- (e) *Subcontracts.* The Contractor shall insert this clause, including this paragraph (e), in subcontracts under this contract that may provide access to computers owned, leased or operated on behalf of the DOE.

I.109 - DEAR 952.208-7 TAGGING OF LEASED VEHICLES (APR 1984) (PREV. I.65)

- (a) DOE intends to use U.S. Government license tags.
- (b) While it is the intention that vehicles leased hereunder shall operate on Federal tags, the DOE reserves the right to utilize State tags if necessary to accomplish its mission. Should State tags be required, the Contractor shall furnish the DOE the documentation required by the State to acquire such tags.

I.110 - DEAR 952.209-72 ORGANIZATIONAL CONFLICTS OF INTEREST (AUG 2009) (ALTERNATE I) (PREV. I.66)

- (a) *Purpose.* The purpose of this clause is to ensure that the Contractor (1) is not biased because of its financial, contractual, organizational, or other interests which relate to the work under this contract, and (2) does not obtain any unfair competitive advantage over other parties by virtue of its performance of this contract.
- (b) *Scope.* The restrictions described herein shall apply to performance or participation by the Contractor and any of its affiliates or their successors in interest (hereinafter collectively referred to as "Contractor") in the activities covered by this clause as a prime Contractor, subcontractor, cosponsor, joint venturer, consultant, or in any similar capacity. For the purpose of this clause,

affiliation occurs when a business concern is controlled by or has the power to control another or when a third party has the power to control both.

(1) *Use of contractor's work product.*

- (i) The Contractor shall be ineligible to participate in any capacity in Department contracts, subcontracts, or proposals therefore (solicited and unsolicited) which stem directly from the Contractor's performance of work under this contract for a period of (Contracting Officer see 48 CFR 909.507-2 and enter specific term) years after the completion of this contract. Furthermore, unless so directed in writing by the Contracting Officer, the Contractor shall not perform any advisory and assistance services work under this contract on any of its products or services or the products or services of another firm if the Contractor is or has been substantially involved in their development or marketing. Nothing in this subparagraph shall preclude the Contractor from competing for follow-on contracts for advisory and assistance services.
- (ii) If, under this contract, the Contractor prepares a complete or essentially complete statement of work or specifications to be used in competitive acquisitions, the Contractor shall be ineligible to perform or participate in any capacity in any contractual effort which is based on such statement of work or specifications. The Contractor shall not incorporate its products or services in such statement of work or specifications unless so directed in writing by the Contracting Officer, in which case the restriction in this subparagraph shall not apply.
- (iii) Nothing in this paragraph shall preclude the Contractor from offering or selling its standard and commercial items to the Government.

(2) *Access to and use of information.*

- (i) If the Contractor, in the performance of this contract, obtains access to information, such as Department plans, policies, reports, studies, financial plans, internal data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or data which has not been released or otherwise made available to the public, the Contractor agrees that without prior written approval of the Contracting Officer it shall not—
 - (A) use such information for any private purpose unless the information has been released or otherwise made available to the public;

- (B) compete for work for the Department based on such information for a period of six (6) months after either the completion of this contract or until such information is released or otherwise made available to the public, whichever is first;
 - (C) submit an unsolicited proposal to the Government which is based on such information until one year after such information is released or otherwise made available to the public; and
 - (D) release such information unless such information has previously been released or otherwise made available to the public by the Department.
- (ii) In addition, the Contractor agrees that to the extent it receives or is given access to proprietary data, data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or other confidential or privileged technical, business, or financial information under this contract, it shall treat such information in accordance with any restrictions imposed on such information.
 - (iii) The Contractor may use technical data it first produces under this contract for its private purposes consistent with paragraphs (b)(2)(i) (A) and (D) of this clause and the patent, rights in data, and security provisions of this contract.
- (c) *Disclosure after award.*
- (1) The Contractor agrees that, if changes, including additions, to the facts disclosed by it prior to award of this contract, occur during the performance of this contract, it shall make an immediate and full disclosure of such changes in writing to the Contracting Officer. Such disclosure may include a description of any action which the Contractor has taken or proposes to take to avoid, neutralize, or mitigate any resulting conflict of interest. The Department may, however, terminate the contract for convenience if it deems such termination to be in the best interest of the Government.
 - (2) In the event that the Contractor was aware of facts required to be disclosed or the existence of an actual or potential organizational conflict of interest and did not disclose such facts or such conflict of interest to the Contracting Officer, DOE may terminate this contract for default.
- (d) *Remedies.* For breach of any of the above restrictions or for nondisclosure or misrepresentation of any facts required to be disclosed concerning this contract,

including the existence of an actual or potential organizational conflict of interest at the time of or after award, the Government may terminate the contract for default, disqualify the Contractor from subsequent related contractual efforts, and pursue such other remedies as may be permitted by law or this contract.

- (e) *Waiver.* Requests for waiver under this clause shall be directed in writing to the Contracting Officer and shall include a full description of the requested waiver and the reasons in support thereof. If it is determined to be in the best interests of the Government, the Contracting Officer may grant such a waiver in writing.
- (f) *Subcontracts.*
 - (1) The Contractor shall include a clause, substantially similar to this clause, including this paragraph (f), in subcontracts expected to exceed the simplified acquisition threshold determined in accordance with 48 CFR part 13 and involving the performance of advisory and assistance services as that term is defined at 48 CFR 2.101. The terms "contract, " "Contractor," and "Contracting Officer" shall be appropriately modified to preserve the Government's rights.
 - (2) Prior to the award under this contract of any such subcontracts for advisory and assistance services, the Contractor shall obtain from the proposed subcontractor or consultant the disclosure required by 48 CFR 909.507-1, and shall determine in writing whether the interests disclosed present an actual or significant potential for an organizational conflict of interest. Where an actual or significant potential organizational conflict of interest is identified, the Contractor shall take actions to avoid, neutralize, or mitigate the organizational conflict to the satisfaction of the Contractor. If the conflict cannot be avoided or neutralized, the Contractor must obtain the approval of the DOE Contracting Officer prior to entering into the subcontract.

I.111 - DEAR 952.215-70 KEY PERSONNEL (DEC 2000) (PREV. I.69)

- (a) The personnel listed below or elsewhere in this contract are considered essential to the work being performed under this contract. Before removing, replacing, or diverting any of the listed or specified personnel, the Contractor must:
 - (1) Notify the Contracting Officer reasonably in advance;
 - (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this contract; and
 - (3) obtain the Contracting Officer's written approval.

Notwithstanding the foregoing, if the Contractor deems immediate removal or suspension of any member of its management team is necessary to fulfill its obligation to maintain satisfactory standards of employee competency, conduct, and integrity under the clause at 48 CFR 970.5203-3, Contractor's Organization, the Contractor may remove or suspend such person at once, although the Contractor must notify Contracting Officer prior to or concurrently with such action.

- (b) The list of personnel may, with the consent of the contracting parties, be amended from time to time during the course of the contract to add or delete personnel.

List of Key Personnel

Function	Title	Name
Responsible for overall management and administration of science and site and facility operations	Laboratory Director	Michael Witherell
Responsible for management and administration of science and for site and facility operations	Laboratory Deputy Director for Research	Horst Simon
Responsible for management and administration of operations	Laboratory Deputy Director for Operations / Chief Operating Officer	Michael Brandt

I.112 - DEAR 952.217-70 ACQUISITION OF REAL PROPERTY (MAR 2011) (PREV. I.70)

- (a) Notwithstanding any other provision of the contract, the prior approval of the Contracting Officer shall be obtained when, in performance of this contract, the Contractor acquires or proposes to acquire use of real property by:
- (1) Purchase, on the Government's behalf or in the Contractor's own name, with title eventually vesting in the Government.
 - (2) Lease for which the Department of Energy will reimburse the incurred costs as a reimbursable contract cost.
 - (3) Acquisition of temporary interest through easement, license or permit, and the Government funds the entire cost of the temporary interest.
- (b) Justification of and execution of any real property acquisitions shall be in accordance and compliance with directions provided by the Contracting Officer.

- (c) The substance of this clause, including this paragraph (c), shall be included in any subcontract occasioned by this contract under which property described in paragraph (a) of this clause shall be acquired.

I.113 - DEAR 952.219-70 DOE MENTOR-PROTEGE PROGRAM (MAY 2000)
(DEVIATION PF 2019-15) (PREV. I.166)

The Department of Energy has established a Mentor-Protege Program to encourage its prime contractors to assist firms certified under section 8(a) of the Small Business Act by SBA, other small disadvantaged businesses, women-owned small businesses, Historically Black Colleges and Universities and Minority Institutions, other minority institutions of higher learning and small business concerns owned and controlled by service disabled veterans in enhancing their business abilities. If the contract resulting from this solicitation is awarded on a cost-plus-award fee basis, the Contractor's performance as a Mentor may be evaluated as part of the award fee plan. Mentor and Protege firms will develop and submit "lessons learned" evaluations to DOE at the conclusion of the contract. Any DOE contractor that is interested in becoming a Mentor should refer to the applicable regulations at 48 CFR 919.70 and should contact the Department of Energy's Office of Small and Disadvantaged Business Utilization.

I.114 - DEAR 952.223-78 SUSTAINABLE ACQUISITION PROGRAM (OCT 2010)
(PREV. I.138)

- (a) Pursuant to Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance, the Department of Energy (DOE) is committed to managing its facilities in an environmentally preferable and sustainable manner that will promote the natural environment and protect the health and well being of its Federal employees and contractor service providers. In the performance of work under this contract, the Contractor shall provide its services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well being of Federal employees, contract service providers and visitors using the facility.
- (b) Green purchasing or sustainable acquisition has several interacting initiatives. The Contractor must comply with initiatives that are current as of the contract award date. DOE may require compliance with revised initiatives from time to time. The Contractor may request an equitable adjustment to the terms of its contract using the procedures in the Changes clause of the contract. The initiatives important to these Orders are explained on the following Government or Industry Internet Sites:

- (1) Recycled Content Products are described at <http://epa.gov/cpg>

- (2) Biobased Products are described at <http://www.biopreferred.gov/>
 - (3) Energy efficient products are at <http://energystar.gov/products> for Energy Star products
 - (4) Energy efficient products are at <http://www.femp.energy.gov/procurement> for FEMP designated products
 - (5) Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at <http://www.epeat.net> the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site
 - (6) Green house gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>
 - (7) Non-Ozone Depleting Alternative Products are at <http://www.epa.gov/ozone/strathome.html>
 - (8) Water efficient plumbing products are at <http://epa.gov/watersense>.
- (c) The clauses at FAR 52.223-2, Affirmative Procurement of Biobased Products under Service and Construction Contracts, 52.223-15, Energy Efficiency in Energy Consuming Products, and 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts, require the use of products that have biobased content, are energy efficient, or have recycled content. To the extent that the services provided by the Contractor require provision of any of the above types of products, the Contractor must provide the energy efficient and environmentally sustainable type of product unless that type of product—
- (1) Is not available;
 - (2) Is not life cycle cost effective or does not exceed 110% of the price of alternative items if life cycle cost data is unavailable (EPEAT is an example of lifecycle costs that have been analyzed by DOE and found to be acceptable at the silver and gold level);
 - (3) Does not meet performance needs; or,
 - (4) Cannot be delivered in time to meet a critical need.

- (d) In the performance of this contract, the Contractor shall comply with the requirements of Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, (<http://www.epa.gov/greeningepa/practices/eo13423.htm>) and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance (<http://www.archives.gov/federal-register/executive-orders/disposition.html>). The Contractor shall also consider the best practices within the DOE Acquisition Guide, Chapter 23, Acquisition Considerations Regarding Federal Leadership in Environmental, Energy, and Economic Performance. This guide includes information concerning recycled content products, biobased products, energy efficient products, water efficient products, alternative fuels and vehicles, non-ozone depleting substances and other environmentally preferable products and services. This guide is available on the Internet at: <http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf>
- (e) Contractors must establish and maintain a documented energy management program which includes requirements for energy and water efficient equipment, EnergyStar or WaterSense, as applicable and procedures for verification of purchases, following the criteria in DOE Order 430.2B, Departmental Energy, Renewable Energy, and Transportation Management, Attachment 1, or its successor to the extent required elsewhere in the contract. This requirement should not be flowed down to subcontractors.
- (f) In complying with the requirements of paragraph (c) of this clause, the Contractor(s) shall coordinate its activities with and submit required reports through the Environmental Sustainability Coordinator or equivalent position. Reporting under this paragraph and paragraphs (g) and (h) of this clause is only required if the contract or subcontract offers subcontracting opportunities for energy efficient and environmentally sustainable products or services exceeding \$100,000 in any contract year.
- (g) The Contractor shall prepare and submit performance reports, if required, using prescribed DOE formats, at the end of the Federal fiscal year, on matters related to the acquisition of environmentally preferable and sustainable products and services. This is a material delivery under the contract. Failure to perform this requirement may be considered a failure that endangers performance of this contract and may result in termination for default.
- (h) These provisions shall be flowed down only to first tier subcontracts exceeding the simplified acquisition threshold that support operation of the DOE facility and offer significant subcontracting opportunities for energy efficient or environmentally sustainable products or services. The Subcontractor, if subcontracting opportunities for sustainable and environmentally preferable products or services exceed the threshold in paragraph (f) of this clause, will comply with the procedures in paragraphs (c) through (f) of this clause regarding the collection of all data necessary to generate the reports required under

paragraphs (c) through (f) of this clause, and submit the reports directly to the Prime Contractor's Environmental Sustainability Coordinator at the supported facility. The Subcontractor will advise the Contractor if it is unable to procure energy efficient and environmentally sustainable items and cite which of the reasons in paragraph (c) of this clause apply. The reports may be submitted at the conclusion of the subcontract term provided that the subcontract delivery term is not multi-year in nature. If the delivery term is multi-year, the Subcontractor shall report its accomplishments for each Federal fiscal year in a manner and at a time or times acceptable to both parties. Failure to comply with these reporting requirements may be considered a breach of contract with attendant consequences.

- (i) When this clause is used in a subcontract, the word Contractor will be understood to mean Subcontractor.

I.115 - DEAR 952.235-71 RESEARCH MISCONDUCT (JUL 2005) (PREV. I.125)

- (a) The Contractor is responsible for maintaining the integrity of research performed pursuant to this contract award including the prevention, detection, and remediation of research misconduct as defined by this clause, and the conduct of inquiries, investigations, and adjudication of allegations of research misconduct in accordance with the requirements of this clause.
- (b) Unless otherwise instructed by the Contracting Officer, the Contractor must conduct an initial inquiry into any allegation of research misconduct. If the Contractor determines that there is sufficient evidence to proceed to an investigation, it must notify the Contracting Officer and, unless otherwise instructed, the Contractor must:
 - (1) Conduct an investigation to develop a complete factual record and an examination of such record leading to either a finding of research misconduct and an identification of appropriate remedies or a determination that no further action is warranted;
 - (2) If the investigation leads to a finding of research misconduct, conduct an adjudication by a responsible official who was not involved in the inquiry or investigation and is separated organizationally from the element which conducted the investigation. The adjudication must include a review of the investigative record and, as warranted, a determination of appropriate corrective actions and sanctions.
 - (3) Inform the Contracting Officer if an initial inquiry supports a formal investigation and, if requested by the Contracting Officer thereafter, keep the Contracting Officer informed of the results of the investigation and any subsequent adjudication. When an investigation is complete, the

Contractor will forward to the Contracting Officer a copy of the evidentiary record, the investigative report, any recommendations made to the Contractor's adjudicating official, the adjudicating official's decision and notification of any corrective action taken or planned, and the subject's written response (if any).

- (c) The Department of Energy (DOE) may elect to act in lieu of the Contractor in conducting an inquiry or investigation into an allegation of research misconduct if the Contracting Officer finds that--
 - (1) The research organization is not prepared to handle the allegation in a manner consistent with this clause;
 - (2) The allegation involves an entity of sufficiently small size that it cannot reasonably conduct the inquiry;
 - (3) DOE involvement is necessary to ensure the public health, safety, and security, or to prevent harm to the public interest; or,
 - (4) The allegation involves possible criminal misconduct.
- (d) In conducting the activities under paragraphs (b) and (c) of this clause, the Contractor and the Department, if it elects to conduct the inquiry or investigation, shall adhere to the following guidelines:
 - (1) Safeguards for information and subjects of allegations. The Contractor shall provide safeguards to ensure that individuals may bring allegations of research misconduct made in good faith to the attention of the Contractor without suffering retribution. Safeguards include: protection against retaliation; fair and objective procedures for examining and resolving allegations; and diligence in protecting positions and reputations. The Contractor shall also provide the subjects of allegations confidence that their rights are protected and that the mere filing of an allegation of research misconduct will not result in an adverse action. Safeguards include timely written notice regarding substantive allegations against them, a description of the allegation and reasonable access to any evidence submitted to support the allegation or developed in response to an allegation and notice of any findings of research misconduct.
 - (2) Objectivity and Expertise. The Contractor shall select individual(s) to inquire, investigate, and adjudicate allegations of research misconduct who have appropriate expertise and have no unresolved conflict of interest. The individual(s) who conducts an adjudication must not be the same individual(s) who conducted the inquiry or investigation, and must be separate organizationally from the element that conducted the inquiry or investigation.

- (3) **Timeliness.** The Contractor shall coordinate, inquire, investigate and adjudicate allegations of research misconduct promptly, but thoroughly. Generally, an investigation should be completed within 120 days of initiation, and adjudication should be complete within 60 days of receipt of the record of investigation.
- (4) **Confidentiality.** To the extent possible, consistent with fair and thorough processing of allegations of research misconduct and applicable law and regulation, knowledge about the identity of the subjects of allegations and informants should be limited to those with a need to know.
- (5) **Remediation and Sanction.** If the Contractor finds that research misconduct has occurred, it shall assess the seriousness of the misconduct and its impact on the research completed or in process. The Contractor must take all necessary corrective actions. Such action may include but are not limited to, correcting the research record and as appropriate imposing restrictions, controls, or other parameters on research in process or to be conducted in the future. The Contractor must coordinate remedial actions with the Contracting Officer. The Contractor must also consider whether personnel sanctions are appropriate. Any such sanction must be considered and effected consistent with any applicable personnel laws, policies, and procedures, and shall take into account the seriousness of the misconduct and its impact, whether it was done knowingly or intentionally, and whether it was an isolated event or pattern of conduct.
- (e) DOE reserves the right to pursue such remedies and other actions as it deems appropriate, consistent with the terms and conditions of the award instrument and applicable laws and regulations. However, the Contractor's good faith administration of this clause and the effectiveness of its remedial actions and sanctions shall be positive considerations and shall be taken into account as mitigating factors in assessing the need for such actions. If DOE pursues any such action, it will inform the subject of the action of the outcome and any applicable appeal procedures.
- (f) *Definitions.*

Adjudication means a formal review of a record of investigation of alleged research misconduct to determine whether and what corrective actions and sanctions should be taken.

Fabrication means making up data or results and recording or reporting them.

Falsification means manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.

Finding of Research Misconduct means a determination, based on a preponderance of the evidence that research misconduct has occurred. Such a finding requires a conclusion that there has been a significant departure from accepted practices of the relevant research community and that it be knowingly, intentionally, or recklessly committed.

Inquiry means information gathering and initial fact-finding to determine whether an allegation or apparent instance of misconduct warrants an investigation.

Investigation means the formal examination and evaluation of the relevant facts.

Plagiarism means the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.

Research means all basic, applied, and demonstration research in all fields of science, medicine, engineering, and mathematics, including, but not limited to, research in economics, education, linguistics, medicine, psychology, social sciences statistics, and research involving human subjects or animals.

Research Misconduct means fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results, but does not include honest error or differences of opinion.

Research record means the record of all data or results that embody the facts resulting from scientists' inquiries, including, but not limited to, research proposals, laboratory records, both physical and electronic, progress reports, abstracts, theses, oral presentations, internal reports, and journal articles.

- (g) By executing this contract, the Contractor provides its assurance that it has established an administrative process for performing an inquiry, mediating if possible, or investigating, and reporting allegations of research misconduct; and that it will comply with its own administrative process and the requirements of 10 CFR part 733 for performing an inquiry, possible mediation, investigation and reporting of research misconduct.
- (h) The Contractor must insert or have inserted the substance of this clause, including paragraph (g), in subcontracts at all tiers that involve research.

I.116 - DEAR 952.242-70 TECHNICAL DIRECTION (DEC 2000) (PREV. I.73A)

- (a) Performance of the work under this contract shall be subject to the technical direction of the DOE Contracting Officer's Representative (COR). The term "technical direction" is defined to include, without limitation:
 - (1) Providing direction to the Contractor that redirects contract effort, shift work emphasis between work areas or tasks, require pursuit of certain

lines of inquiry, fill in details, or otherwise serve to accomplish the contractual Statement of Work.

- (2) Providing written information to the Contractor that assists in interpreting drawings, specifications, or technical portions of the work description.
 - (3) Reviewing and, where required by the contract, approving, technical reports, drawings, specifications, and technical information to be delivered by the Contractor to the Government.
- (b) The Contractor will receive a copy of the written COR designation from the Contracting Officer. It will specify the extent of the COR's authority to act on behalf of the Contracting Officer.
- (c) Technical direction must be within the scope of work stated in the contract. The COR does not have the authority to, and may not, issue any technical direction that:
- (1) Constitutes an assignment of additional work outside the Statement of Work;
 - (2) Constitutes a change as defined in the contract clause entitled "Changes;"
 - (3) In any manner causes an increase or decrease in the total estimated contract cost, the fee (if any), or the time required for contract performance;
 - (4) Changes any of the expressed terms, conditions or specifications of the contract; or
 - (5) Interferes with the Contractor's right to perform the terms and conditions of the contract.
- (d) All technical direction shall be issued in writing by the COR.
- (e) The Contractor must proceed promptly with the performance of technical direction duly issued by the COR in the manner prescribed by this clause and within its authority under the provisions of this clause. If, in the opinion of the Contractor, any instruction or direction by the COR falls within one of the categories defined in (c)(1) through (c)(5) of this clause, the Contractor must not proceed and must notify the Contracting Officer in writing within five (5) working days after receipt of any such instruction or direction and must request the Contracting Officer to modify the contract accordingly. Upon receiving the notification from the Contractor, the Contracting Officer must:

- (1) Advise the Contractor in writing within thirty (30) days after receipt of the Contractor's letter that the technical direction is within the scope of the contract effort and does not constitute a change under the Changes clause of the contract;
 - (2) Advise the Contractor in writing within a reasonable time that the Government will issue a written change order; or
 - (3) Advise the Contractor in writing within a reasonable time not to proceed with the instruction or direction of the COR.
- (f) A failure of the Contractor and Contracting Officer either to agree that the technical direction is within the scope of the contract or to agree upon the contract action to be taken with respect to the technical direction will be subject to the provisions of the clause entitled "Disputes."

I.117 - DEAR 952.250-70 NUCLEAR HAZARDS INDEMNITY AGREEMENT (JUN 1996)¹ (PREV. I.74)

- (a) *Authority.* This clause is incorporated into this contract pursuant to the authority contained in subsection 170d. of the Atomic Energy Act of 1954, as amended (hereinafter called the Act.)
- (b) *Definitions.* The definitions set out in the Act shall apply to this clause.
- (c) *Financial protection.* Except as hereafter permitted or required in writing by DOE, the contractor will not be required to provide or maintain, and will not provide or maintain at Government expense, any form of financial protection to cover public liability, as described in paragraph (d)(2) below. DOE may, however, at any time require in writing that the contractor provide and maintain financial protection of such a type and in such amount as DOE shall determine to be appropriate to cover such public liability, provided that the costs of such financial protection are reimbursed to the contractor by DOE.
- (d) (1) *Indemnification.* To the extent that the Contractor and other persons indemnified are not compensated by any financial protection permitted or required by DOE, DOE will indemnify the Contractor and other persons indemnified against (i) claims for public liability as described in subparagraph (d)(2) of this clause; and (ii) such legal costs of the Contractor and other persons indemnified as are approved by DOE, provided that DOE's liability, including such legal costs, shall not exceed the amount set forth in section 170e.(1)(B) of the Act in the aggregate for each nuclear incident or precautionary evacuation occurring within the

¹ Clause I.74 pertains to actions occurring prior to August 8, 2005.

United States or \$100 million in the aggregate for each nuclear incident occurring outside the United States, irrespective of the number of persons indemnified in connection with this contract.

- (2) The public liability referred to in subparagraph (d)(1) of this clause is public liability as defined in the Act which (i) arises out of or in connection with the activities under this contract, including transportation; and (ii) arises out of or results from a nuclear incident or precautionary evacuation, as those terms are defined in the Act.
- (e) (1) *Waiver of Defenses.* In the event of a nuclear incident, as defined in the Act, arising out of nuclear waste activities, as defined in the Act, the contractor, on behalf of itself and other persons indemnified, agrees to waive any issue or defense as to charitable or governmental immunity.
- (2) In the event of an extraordinary nuclear occurrence which—
 - (i) Arises out of, results from, or occurs in the course of the construction, possession, or operation of a production or utilization facility; or
 - (ii) Arises out of, results from, or occurs in the course of transportation of source material, by-product material, or special nuclear material to or from a production or utilization facility; or
 - (iii) Arises out of or results from the possession, operation, or use by the contractor or a subcontractor of a device utilizing special nuclear material or by-product material, during the course of the contract activity; or
 - (iv) Arises out of, results from, or occurs in the course of nuclear waste activities, the contractor, on behalf of itself and other persons indemnified, agrees to waive—
 - (A) Any issue or defense as to the conduct of the claimant (including the conduct of persons through whom the claimant derives its cause of action) or fault of persons indemnified, including, but not limited to—
 1. Negligence;
 2. Contributory negligence;
 3. Assumption of risk; or

4. Unforeseeable intervening causes, whether involving the conduct of a third person or an act of God;
- (B) Any issue or defense as to charitable or governmental immunity; and
- (C) Any issue or defense based on any statute of limitations, if suit is instituted within 3 years from the date on which the claimant first knew, or reasonably could have known, of his injury or change and the cause thereof. The waiver of any such issue or defense shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action. The waiver shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified.
- (v) The term extraordinary nuclear occurrence means an event which DOE has determined to be an extraordinary nuclear occurrence as defined in the Act. A determination of whether or not there has been an extraordinary nuclear occurrence will be made in accordance with the procedures in 10 CFR part 840.
- (vi) For the purposes of that determination, "offsite" as that term is used in 10 CFR part 840 means away from "the contract location" which phrase means any DOE facility, installation, or site at which contractual activity under this contract is being carried on, and any Contractor-owned or controlled facility, installation, or site at which the Contractor is engaged in the performance of contractual activity under this contract.
- (3) The waivers set forth above—
 - (i) Shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action;
 - (ii) Shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified;
 - (iii) Shall not preclude a defense based upon a failure to take reasonable steps to mitigate damages;
 - (iv) Shall not apply to injury or damage to a claimant or to a claimant's property which is intentionally sustained by the claimant or which results from a nuclear incident intentionally and wrongfully caused by the claimant;

- (v) Shall not apply to injury to a claimant who is employed at the site of and in connection with the activity where the extraordinary nuclear occurrence takes place, if benefits therefor are either payable or required to be provided under any workmen's compensation or occupational disease law;
 - (vi) Shall not apply to any claim resulting from a nuclear incident occurring outside the United States;
 - (vii) Shall be effective only with respect to those obligations set forth in this clause and in insurance policies, contracts or other proof of financial protection; and
 - (viii) Shall not apply to, or prejudice the prosecution or defense of, any claim or portion of claim which is not within the protection afforded under (A) the limit of liability provisions under subsection 170e. of the Act, and (B) the terms of this agreement and the terms of insurance policies, contracts, or other proof of financial protection.
- (f) *Notification and litigation of claims.* The contractor shall give immediate written notice to DOE of any known action or claim filed or made against the contractor or other person indemnified for public liability as defined in paragraph (d)(2). Except as otherwise directed by DOE, the contractor shall furnish promptly to DOE, copies of all pertinent papers received by the Contractor or filed with respect to such actions or claims. DOE shall have the right to, and may collaborate with, the contractor and any other person indemnified in the settlement or defense of any action or claim and shall have the right to (1) require the prior approval of DOE for the payment of any claim that DOE may be required to indemnify hereunder; and (2) appear through the Attorney General on behalf of the contractor or other person indemnified in any action brought upon any claim that DOE may be required to indemnify hereunder, take charge of such action, and settle or defend any such action. If the settlement or defense of any such action or claim is undertaken by DOE, the contractor or other person indemnified shall furnish all reasonable assistance in effecting a settlement or asserting a defense.
- (g) *Continuity of DOE obligations.* The obligations of DOE under this clause shall not be affected by any failure on the part of the contractor to fulfill its obligation under this contract and shall be unaffected by the death, disability, or termination of existence of the contractor, or by the completion, termination or expiration of this contract.
- (h) *Effect of other clauses.* The provisions of this clause shall not be limited in any way by, and shall be interpreted without reference to, any other clause of this contract, including the clause entitled Contract Disputes, provided, however, that this clause shall be subject to the clauses entitled Covenant Against Contingent

Fees, and Accounts, Records, and Inspection, and any provisions that are later added to this contract as required by applicable Federal law, including statutes, executive orders and regulations, to be included in Nuclear Hazards Indemnity Agreements.

- (i) *Reserved.*
- (j) *Criminal penalties.* Any individual director, officer, or employee of the contractor or of its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to criminal penalties, pursuant to 223(c) of the Act, for knowing and willful violation of the Atomic Energy Act of 1954, as amended, and applicable DOE nuclear safety-related rules, regulations or orders which violation results in, or, if undetected, would have resulted in a nuclear incident.
- (k) *Inclusion in subcontracts.* The contractor shall insert this clause in any subcontract which may involve the risk of public liability, as that term is defined in the Act and further described in paragraph (d)(2) above. However, this clause shall not be included in subcontracts in which the subcontractor is subject to Nuclear Regulatory Commission (NRC) financial protection requirements under section 170b. of the Act or NRC agreements of indemnification under section 170c. or k. of the Act for the activities under the subcontract.

I.118 - DEAR 952.250-70 NUCLEAR HAZARDS INDEMNITY AGREEMENT (AUG 2016) (PREV. I.126)

- (a) *Authority.* This clause is incorporated into this contract pursuant to the authority contained in subsection 170d. of the Atomic Energy Act of 1954, as amended (hereinafter called the Act.)
- (b) *Definitions.* The definitions set out in the Act shall apply to this clause.
- (c) *Financial protection.* Except as hereafter permitted or required in writing by DOE, the Contractor will not be required to provide or maintain, and will not provide or maintain at Government expense, any form of financial protection to cover public liability, as described in paragraph (d)(2) below. DOE may, however, at any time require in writing that the Contractor provide and maintain financial protection of such a type and in such amount as DOE shall determine to be appropriate to cover such public liability, provided that the costs of such financial protection are reimbursed to the Contractor by DOE.
- (d) (1) *Indemnification.* To the extent that the Contractor and other persons indemnified are not compensated by any financial protection permitted or required by DOE, DOE will indemnify the Contractor and other persons indemnified against (i) claims for public liability as described in subparagraph (d)(2) of this clause; and (ii) such legal costs of the

Contractor and other persons indemnified as are approved by DOE, provided that DOE's liability, including such legal costs, shall not exceed the amount set forth in section 170e.(1)(B) of the Act in the aggregate for each nuclear incident or precautionary evacuation occurring within the United States or \$500 million in the aggregate for each nuclear incident occurring outside the United States, irrespective of the number of persons indemnified in connection with this contract.

- (2) The public liability referred to in subparagraph (d)(1) of this clause is public liability as defined in the Act which (i) arises out of or in connection with the activities under this contract, including transportation; and (ii) arises out of or results from a nuclear incident or precautionary evacuation, as those terms are defined in the Act.
- (e) (1) *Waiver of defenses.* In the event of a nuclear incident, as defined in the Act, arising out of nuclear waste activities, as defined in the Act, the Contractor, on behalf of itself and other persons indemnified, agrees to waive any issue or defense as to charitable or governmental immunity.
- (2) In the event of an extraordinary nuclear occurrence which—
 - (i) Arises out of, results from, or occurs in the course of the construction, possession, or operation of a production or utilization facility; or
 - (ii) Arises out of, results from, or occurs in the course of transportation of source material, by-product material, or special nuclear material to or from a production or utilization facility; or
 - (iii) Arises out of or results from the possession, operation, or use by the Contractor or a subcontractor of a device utilizing special nuclear material or by-product material, during the course of the contract activity; or
 - (iv) Arises out of, results from, or occurs in the course of nuclear waste activities, the Contractor, on behalf of itself and other persons indemnified, agrees to waive—
 - (A) Any issue or defense as to the conduct of the claimant (including the conduct of persons through whom the claimant derives its cause of action) or fault of persons indemnified, including, but not limited to—
 - (1) Negligence;
 - (2) Contributory negligence;
 - (3) Assumption of risk; or

- (4) Unforeseeable intervening causes, whether involving the conduct of a third person or an act of God;
 - (B) Any issue or defense as to charitable or governmental immunity; and
 - (C) Any issue or defense based on any statute of limitations, if suit is instituted within 3 years from the date on which the claimant first knew, or reasonably could have known, of his injury or change and the cause thereof. The waiver of any such issue or defense shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action. The waiver shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified.
 - (v) The term extraordinary nuclear occurrence means an event which DOE has determined to be an extraordinary nuclear occurrence as defined in the Act. A determination of whether or not there has been an extraordinary nuclear occurrence will be made in accordance with the procedures in 10 CFR part 840.
 - (vi) For the purposes of that determination, offsite as that term is used in 10 CFR part 840 means away from “the contract location” which phrase means any DOE facility, installation, or site at which contractual activity under this contract is being carried on, and any contractor-owned or controlled facility, installation, or site at which the Contractor is engaged in the performance of contractual activity under this contract.
- (3) The waivers set forth above—
- (i) Shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action;
 - (ii) Shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified;
 - (iii) Shall not preclude a defense based upon a failure to take reasonable steps to mitigate damages;
 - (iv) Shall not apply to injury or damage to a claimant or to a claimant's property which is intentionally sustained by the claimant or which results from a nuclear incident intentionally and wrongfully caused by the claimant;

- (v) Shall not apply to injury to a claimant who is employed at the site of and in connection with the activity where the extraordinary nuclear occurrence takes place, if benefits therefor are either payable or required to be provided under any workmen's compensation or occupational disease law;
 - (vi) Shall not apply to any claim resulting from a nuclear incident occurring outside the United States;
 - (vii) Shall be effective only with respect to those obligations set forth in this clause and in insurance policies, contracts or other proof of financial protection; and
 - (viii) Shall not apply to, or prejudice the prosecution or defense of, any claim or portion of claim which is not within the protection afforded under (A) the limit of liability provisions under subsection 170e. of the Act, and (B) the terms of this agreement and the terms of insurance policies, contracts, or other proof of financial protection.
- (f) *Notification and litigation of claims.* The Contractor shall give immediate written notice to DOE of any known action or claim filed or made against the Contractor or other person indemnified for public liability as defined in paragraph (d)(2). Except as otherwise directed by DOE, the Contractor shall furnish promptly to DOE, copies of all pertinent papers received by the Contractor or filed with respect to such actions or claims. DOE shall have the right to, and may collaborate with, the Contractor and any other person indemnified in the settlement or defense of any action or claim and shall have the right to (1) require the prior approval of DOE for the payment of any claim that DOE may be required to indemnify hereunder; and (2) appear through the Attorney General on behalf of the Contractor or other person indemnified in any action brought upon any claim that DOE may be required to indemnify hereunder, take charge of such action, and settle or defend any such action. If the settlement or defense of any such action or claim is undertaken by DOE, the Contractor or other person indemnified shall furnish all reasonable assistance in effecting a settlement or asserting a defense.
- (g) *Continuity of DOE obligations.* The obligations of DOE under this clause shall not be affected by any failure on the part of the Contractor to fulfill its obligation under this contract and shall be unaffected by the death, disability, or termination of existence of the Contractor, or by the completion, termination or expiration of this contract.
- (h) *Effect of other clauses.* The provisions of this clause shall not be limited in any way by, and shall be interpreted without reference to, any other clause of this contract, including the clause entitled Contract Disputes, provided, however, that this clause shall be subject to the clauses entitled Covenant Against Contingent Fees, and Accounts, records, and inspection, and any provisions that are later

added to this contract as required by applicable Federal law, including statutes, executive orders and regulations, to be included in Nuclear Hazards Indemnity Agreements.

- (i) *Civil penalties.* The Contractor and its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to civil penalties, pursuant to 234A of the Act, for violations of applicable DOE nuclear-safety related rules, regulations, or orders.
- (j) *Criminal penalties.* Any individual director, officer, or employee of the Contractor or of its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to criminal penalties, pursuant to 223(c) of the Act, for knowing and willful violation of the Atomic Energy Act of 1954, as amended, and applicable DOE nuclear safety-related rules, regulations or orders which violation results in, or, if undetected, would have resulted in a nuclear incident.
- (k) *Inclusion in subcontracts.* The Contractor shall insert this clause in any subcontract which may involve the risk of public liability, as that term is defined in the Act and further described in paragraph (d)(2) above. However, this clause shall not be included in subcontracts in which the subcontractor is subject to Nuclear Regulatory Commission (NRC) financial protection requirements under section 170b. of the Act or NRC agreements of indemnification under section 170c. or k. of the Act for the activities under the subcontract.
- (l) *Effective date.* This contract was in effect prior to August 8, 2005 and contains the clause at DEAR 952.250-70 (JUN 1996) or prior version. The indemnity of paragraph (d) (1) is limited to the indemnity provided by the Price-Anderson Amendments Act of 1988 for any nuclear incident to which the indemnity applies that occurred before August 8, 2005. The indemnity of paragraph (d) (1) of this clause applies to any nuclear incident that occurred on or after August 8, 2005. The Contractor's liability for violations of the Atomic Energy Act of 1954 under this contract is that in effect prior to August 8, 2005.

I.119 - DEAR 952.251-70 CONTRACTOR EMPLOYEE TRAVEL DISCOUNTS (AUG 2009) (PREV. I.75)

- (a) The Contractor shall take advantage of travel discounts offered to Federal Contractor employee travelers by AMTRAK, hotels, motels, or car rental companies, when use of such discounts would result in lower overall trip costs and the discounted services are reasonably available. Vendors providing these services may require the Contractor employee to furnish them a letter of identification signed by the authorized Contracting Officer.
- (b) *Contracted airlines.* Contractors are not eligible for GSA contract city pair fares.

- (c) *Discount rail service.* AMTRAK voluntarily offers discounts to Federal travelers on official business and sometimes extends those discounts to Federal contractor employees.
- (d) *Hotels/motels.* Many lodging providers extend their discount rates for Federal employees to Federal contractor employees.
- (e) *Car rentals.* The Surface Deployment and Distribution Command (SDDC) of the Department of Defense negotiates rate agreements with car rental companies that are available to Federal travelers on official business. Some car rental companies extend those discounts to Federal contractor employees.
- (f) *Obtaining travel discounts.*
 - (1) To determine which vendors offer discounts to Government contractors, the Contractor may review commercial publications such as the Official Airline guides Official Traveler, Innovata, or National Telecommunications. The Contractor may also obtain this information from GSA contract Travel Management Centers or the Department of Defense's Commercial Travel Offices.
 - (2) The vendor providing the service may require the Government contractor to furnish a letter signed by the Contracting Officer. The following illustrates a standard letter of identification.

OFFICIAL AGENCY LETTERHEAD

TO: Participating Vendor

SUBJECT: OFFICIAL TRAVEL OF GOVERNMENT CONTRACTOR

(FULL NAME OF TRAVELER), the bearer of this letter is an employee of (COMPANY NAME) which has a contract with this agency under Government contract (CONTRACT NUMBER). During the period of the contract (GIVE DATES), AND WITH THE APPROVAL OF THE CONTRACT VENDOR, the employee is eligible and authorized to use available travel discount rates in accordance with Government contracts and/or agreements. Government Contract City Pair fares are not available to Contractors.

SIGNATURE, Title and telephone number of Contracting Officer

I.120 - DEAR 970.5203-1 MANAGEMENT CONTROLS (JUN 2007) (DEVIATION)
(PREV. I.76)

- (a) (1) The Contractor shall be responsible for maintaining, as an integral part of its organization, effective systems of management controls for both administrative and programmatic functions. Management controls comprise the plan of organization, methods, and procedures adopted by management to reasonably ensure that: the mission and functions assigned to the Contractor are properly executed; efficient and effective operations are promoted including consideration of outsourcing of functions; resources are safeguarded against waste, loss, mismanagement, unauthorized use, or misappropriation; all encumbrances and costs that are incurred under the contract and fees that are earned are in compliance with applicable clauses and other current terms, conditions, and intended purposes; all collections accruing to the Contractor in connection with the work under this contract, expenditures, and all other transactions and assets are properly recorded, managed, and reported; and financial, statistical, and other reports necessary to maintain accountability and managerial control are accurate, reliable, and timely.
 - (2) The systems of controls employed by the Contractor shall be documented and satisfactory to DOE.
 - (3) Such systems shall be an integral part of the Contractor's management functions, including defining specific roles and responsibilities for each level of management, and holding employees accountable for the adequacy of the management systems and controls in their areas of assigned responsibility.
 - (4) The Contractor shall, as part of the internal audit program required elsewhere in this contract, periodically review the management systems and controls employed in programs and administrative areas to ensure that they are adequate to provide reasonable assurance that the objectives of the systems are being accomplished and that these systems and controls are working effectively. Annually, or at other intervals directed by the Contracting Officer, the Contractor shall supply to the Contracting Officer copies of the reports reflecting the status of recommendations resulting from management audits performed by its internal audit activity and any other audit organization. This requirement may be satisfied in part by the reports required under paragraph (i) of 48 CFR 970.5232-3, Accounts, records, and inspection.
- (b) The Contractor shall be responsible for maintaining, as a part of its operational responsibilities, a baseline quality assurance program that implements

documented performance, quality standards, and control and assessment techniques.

- (c) On an annual basis, the Contractor, through an officer at a level above the Laboratory Director, shall submit an assurance to the Contracting Officer that the system of management controls, including all systems revised in accordance with the clause of this Contract entitled, "Application of DOE Contractor Requirements Documents", is adequate to assure that the objectives of the management system are being accomplished and that the system and controls are effective and efficient.

I.121 - DEAR 970.5203-2 PERFORMANCE IMPROVEMENT AND COLLABORATION (MAY 2006) (PREV. I.77)

- (a) The Contractor agrees that it shall affirmatively identify, evaluate, and institute practices, where appropriate, that will improve performance in the areas of environmental and health, safety, scientific and technical, security, business and administrative, and any other areas of performance in the management and operation of the contract. This may entail the alteration of existing practices or the institution of new procedures to more effectively or efficiently perform any aspect of contract performance or reduce overall cost of operation under the contract. Such improvements may result from changes in organization, outsourcing decisions, simplification of systems while retaining necessary controls, or any other approaches consistent with the statement of work and performance measures of this contract.
- (b) The Contractor agrees to work collaboratively with the Department, all other management and operating, DOE major facilities management contractors and affiliated contractors which manage or operate DOE sites or facilities for the following purposes: (i) to exchange information generally, (ii) to evaluate concepts that may be of benefit in resolving common issues, in confronting common problems, or in reducing costs of operations, and (iii) to otherwise identify and implement DOE-complex-wide management improvements discussed in paragraph (a). In doing so, it shall also affirmatively provide information relating to its management improvements to such contractors, including lessons learned, subject to security considerations and the protection of data proprietary to third parties.
- (c) The Contractor may consult with the Contracting Officer in those instances in which improvements being considered pursuant to paragraph (a) involve the cooperation of the DOE. The Contractor may request the assistance of the Contracting Officer in the communication of the success of improvements to other management and operating contractors in accordance with paragraph (b) of this clause.

- (d) The Contractor shall notify the Contracting Officer and seek approval where necessary to fulfill its obligations under the contract. Compliance with this clause in no way alters the obligations of the Contractor under any other provision of this contract.

I.122- DEAR 970.5203-3 CONTRACTOR'S ORGANIZATION (DEC 2000) [SC
ALTERNATE APR 2018] (PREV. I.78)

- (a) *Control of employees.* The Contractor shall be responsible for maintaining satisfactory standards of employee competency, conduct, and integrity and shall be responsible for taking such disciplinary action with respect to its employees as may be necessary. In the event the Contractor fails to remove any employee from the contract work whom DOE deems incompetent, careless, or insubordinate, or whose continued employment on the work is deemed by DOE to be inimical to the Department's mission, the Contracting Officer may require, with the approval of the Secretary of Energy, the Contractor to remove the employee from work under the contract. This includes the right to direct the Contractor to remove its most senior key person from work under the contract for serious contract performance deficiencies.
- (b) *Standards and procedures.* The Contractor shall establish such standards and procedures as are necessary to implement the requirements set forth in 48 CFR 970.0371. Such standards and procedures shall be subject to the approval of the Contracting Officer.

I.123 - DEAR 970.5204-2 LAWS, REGULATIONS, AND DOE DIRECTIVES (DEC
2000) (DEVIATION) (PREV. I.79)

- (a) In performing work under this contract, the Contractor shall comply with the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the appropriate regulatory agency. A List of Applicable Laws and Regulations (Appendix I/List A) may be appended to this contract for information purposes. Omission of any applicable law or regulation from Appendix I/List A does not affect the obligation of the Contractor to comply with such law or regulation pursuant to this paragraph.
- (b) The Contractor will perform the work of this Contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this Contract as "Appendix I", until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described in the clause of this Contract, entitled, "Application of DOE Contractor Requirements Documents".

- (c) Except as otherwise directed by the contracting officer, the contractor shall procure all necessary permits or licenses required for the performance of work under this contract.
- (d) Regardless of the performer of the work, the contractor is responsible for compliance with the requirements of this clause. The contractor is responsible for flowing down the requirements of this clause to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

I.124 - DEAR 970.5204-3 ACCESS TO AND OWNERSHIP OF RECORDS (OCT 2014)
(DEVIATION PER POLICY FLASH 2015-23) (PREV. I.80)

- (a) *Government-owned records.* Except as provided in paragraph (b) of this clause, all records acquired or generated by the contractor in its performance of this contract, including records series described within the contract as Privacy Act systems of records, shall be the property of the Government and shall be maintained in accordance with 36 Code of Federal Regulations (CFR), Chapter XII, -- Subchapter B, "Records Management." The contractor shall ensure records classified as Privacy Act system of records are maintained in accordance with FAR 52.224.2 "Privacy Act."
- (b) *Contractor-owned records.* The following records are considered the property of the contractor and are not within the scope of paragraph (a) of this clause.
 - (1) Employment-related records (such as worker's compensation files; employee relations records, records on salary and employee benefits; drug testing records, labor negotiation records; records on ethics, employee concerns; records generated during the course of responding to allegations of research misconduct; records generated during other employee related investigations conducted under an expectation of confidentiality; employee assistance program records; and personnel and medical/health-related records and similar files), and non-employee patient medical/health-related records, except those records described by the contract as being operated and maintained by the Contractor in Privacy Act system of records.
 - (2) Confidential contractor financial information, internal corporate governance records and correspondence between the contractor and other segments of the contractor located away from the DOE facility (i.e., the contractor's corporate headquarters);
 - (3) Records relating to any procurement action by the contractor, except for records that under 48 CFR 970.5232-3 are described as the property of the Government; and

- (4) Legal records, including legal opinions, litigation files, and documents covered by the attorney-client and attorney work product privileges; and
- (5) The following categories of records maintained pursuant to the technology transfer clause of this contract:
 - (i) Executed license agreements, including exhibits or appendices containing information on royalties, royalty rates, other financial information, or commercialization plans, and all related documents, notes and correspondence.
 - (ii) The contractor's protected Cooperative Research and Development Agreement (CRADA) information and appendices to a CRADA that contain licensing terms and conditions, or royalty or royalty rate information.
 - (iii) Patent, copyright, mask work, and trademark application files and related contractor invention disclosures, documents and correspondence, where the contractor has elected rights or has permission to assert rights and has not relinquished such rights or turned such rights over to the Government.
- (c) *Contract completion or termination.* Upon contract completion or termination, the contractor shall ensure final disposition of all Government-owned records to a Federal Record Center, the National Archives and Records Administration, to a successor contractor, its designee, or other destinations, as directed by the Contracting Officer. Upon the request of the Government, the contractor shall provide either the original contractor-owned records or copies of the records identified in paragraph (b) of this clause, to DOE or its designees, including successor contractors. Upon delivery, title to such records shall vest in DOE or its designees, and such records shall be protected in accordance with applicable federal laws (including the Privacy Act) as appropriate. If the contractor chooses to provide its original contractor-owned records to the Government or its designee, the contractor shall retain future rights to access and copy such records as needed.
- (d) *Inspection, copying, and audit of records.* All records acquired or generated by the Contractor under this contract in the possession of the Contractor, including those described at paragraph (b) of this clause, shall be subject to inspection, copying, and audit by the Government or its designees at all reasonable times, and the Contractor shall afford the Government or its designees reasonable facilities for such inspection, copying, and audit; provided, however, that upon request by the Contracting Officer, the Contractor shall deliver such records to a location specified by the Contracting Officer for inspection, copying, and audit. The Government or its designees shall use such records in accordance with applicable federal laws (including the Privacy Act), as appropriate.

- (e) *Applicability.* This clause applies to all records created, received and maintained by the contractor without regard to the date or origination of such records including all records acquired from a predecessor contractor.
- (f) *Records maintenance and retention.* Contractor shall create, maintain, safeguard, and disposition records in accordance with 36 Code of Federal Regulations (CFR), Chapter XII, -- Subchapter B, "Records Management" and the National Archives and Records Administration (NARA)-approved Records Disposition Schedules. Records retention standards are applicable for all classes of records, whether or not the records are owned by the Government or the contractor. The Government may waive application of the NARA-approved Records Disposition Schedules, if, upon termination or completion of the contract, the Government exercises its right under paragraph (c) of this clause to obtain copies of records described in paragraph (b) and delivery of records described in paragraph (a) of this clause.
- (g) *Subcontracts.*
 - (1) The contractor shall include the requirements of this clause in all subcontracts that contain the Radiation Protection and Nuclear Criticality clause at 952.223-72, or whenever an on-site subcontract scope of work (i) could result in potential exposure to: A) radioactive materials; B) beryllium; or C) asbestos or (ii) involves a risk associated with chronic or acute exposure to toxic chemicals or substances or other hazardous materials that can cause adverse health impacts, in accordance with 10 CFR part 851. In determining its flow-down responsibilities, the Contractor shall include the requirements of this clause in all on-site subcontracts where the scope of work is performed in: (A) Radiological Areas and/or Radioactive Materials Areas (as defined at 10 CFR 835.2); (B) areas where beryllium concentrations exceed or can reasonably be expected to exceed action levels specified in 10 CFR 850; (C) an Asbestos Regulated area (as defined at 29 CFR 1926.1101 or 29 CFR 1910.1001); or (D) a workplace where hazard prevention and abatement processes are implemented in compliance with 10 CFR 851.21 to specifically control potential exposure to toxic chemicals or substances or other hazardous materials that can cause long term health impacts.
 - (2) The Contractor may elect to take on the obligations of the provisions of this clause in lieu of the subcontractor, and maintain records that would otherwise be maintained by the subcontractor.

I.125 - DEAR 970.5211-1 WORK AUTHORIZATION (MAY 2007) (PREV. I.119)

- (a) *Work authorization proposal.* Prior to the start of each fiscal year, the Contracting Officer or designee shall provide the Contractor with program execution guidance in sufficient detail to enable the Contractor to develop an estimated cost, scope, and schedule. In addition, the Contracting Officer may unilaterally assign work. The Contractor shall submit to the Contracting Officer or other designated official, a detailed description of work, a budget of estimated costs, and a schedule of performance for the work it recommends be undertaken during that upcoming fiscal year.
- (b) *Cost estimates.* The Contractor and the Contracting Officer shall establish a budget of estimated costs, description of work, and schedule of performance for each work assignment. If agreement cannot be reached as to scope, schedule, and estimated cost, the Contracting Officer may issue a unilateral work authorization, pursuant to this clause. The work authorization, whether issued bilaterally or unilaterally shall become part of the contract. No activities shall be authorized or costs incurred prior to Contracting Officer issuance of a work authorization or direction concerning continuation of activities of the contract.
- (c) *Performance.* The Contractor shall perform work as specified in the work authorization, consistent with the terms and conditions of this contract.
- (d) *Modification.* The Contracting Officer may at any time, without notice, issue changes to work authorizations within the overall scope of the contract. A proposal for adjustment in estimated costs and schedule for performance of work, recognizing work made unnecessary as a result, along with new work, shall be submitted by the Contractor in accordance with paragraph (a) of this clause. Resolution shall be in accordance with paragraph (b) of this clause.
- (e) *Increase in estimated cost.* The Contractor shall notify the Contracting Officer immediately whenever the cost incurred, plus the projected cost to complete work is projected to differ (plus or minus) from the estimate by 10 percent. The Contractor shall submit a proposal for modification in accordance with paragraph (a) of this clause. Resolution shall be in accordance with paragraph (b) of this clause.
- (f) *Expenditure of funds and incurrence of costs.* The expenditure of monies by the Contractor in the performance of all authorized work shall be governed by the "Obligation of Funds" or equivalent clause of the contract.
- (g) *Responsibility to achieve environment, safety, health, and security compliance.* Notwithstanding other provisions of the contract, the Contractor may, in the event of an emergency, take that corrective action necessary to sustain operations consistent with applicable environmental, safety, health, and security statutes, regulations, and procedures. If such action is taken, the Contractor shall notify

the Contracting Officer within 24 hours of initiation and, within 30 days, submit a proposal for adjustment in estimated costs and schedule established in accordance with paragraphs (a) and (b) of this clause.

I.126 - DEAR 970.5215-1 TOTAL AVAILABLE FEE: BASE FEE AMOUNT AND PERFORMANCE FEE AMOUNT (DEC 2000) (ALTERNATES II AND IV) (DEC 2000) (PREV. I.82)

- (a) *Total available fee.* Total available fee, consisting of a base fee amount (which may be zero) and a performance fee amount (consisting of an incentive fee component for objective performance requirements, an award fee component for subjective performance requirements, or both) determined in accordance with the provisions of this clause, is available for payment in accordance with the clause of this contract entitled, "Payments and advances."
- (b) *Fee Negotiations.* Prior to the beginning of each fiscal year under this contract, or other appropriate period as mutually agreed upon and, if exceeding one year, approved by the Senior Procurement Executive, or designee, the Contracting Officer and Contractor shall enter into negotiation of the requirements for the year or appropriate period, including the evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. The Contracting Officer shall modify this contract at the conclusion of each negotiation to reflect the negotiated requirements, evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. In the event the parties fail to agree on the requirements, the evaluation areas and individual requirements subject to incentives, the total available fee, or the allocation of fee, a unilateral determination will be made by the Contracting Officer. The total available fee amount shall be allocated to a twelve month cycle composed of one or more evaluation periods, or such longer period as may be mutually agreed to between the parties and approved by the Senior Procurement Executive, or designee.
- (c) *Determination of Total Available Fee Amount Earned.*
 - (1) The Government shall, at the conclusion of each specified evaluation period, evaluate the Contractor's performance of all requirements, including performance based incentives completed during the period, and determine the total available fee amount earned. At the Contracting Officer's discretion, evaluation of incentivized performance may occur at the scheduled completion of specific incentivized requirements.
 - (2) The DOE Operations/Field Office Manager, or designee, will be the Manager, Bay Area Site Office. The Contractor agrees that the determination as to the total available fee earned is a unilateral

determination made by the DOE Operations/Field Office Manager, or designee.

- (3) The evaluation of contractor performance shall be in accordance with the Performance Evaluation and Measurement Plan(s) described in subparagraph (d) of this clause unless otherwise set forth in the contract. The Contractor shall be promptly advised in writing of the fee determination, and the basis of the fee determination. In the event that the contractor's performance is considered to be less than the level of performance set forth in the Statement of Work, as amended to include the current Work Authorization Directive or similar document, for any contract requirement, it will be considered by the DOE Operations/Field Office Manager, or designee, who may at his/her discretion adjust the fee determination to reflect such performance. Any such adjustment shall be in accordance with the clause entitled, "Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts" if contained in the contract.
 - (4) Award fee not earned during the evaluation period shall not be allocated to future evaluation periods.
- (d) *Performance Evaluation and Measurement Plan(s)*. To the extent not set forth elsewhere in the contract:
- (1) The Government shall establish a Performance Evaluation and Measurement Plan(s) upon which the determination of the total available fee amount earned shall be based. The Performance Evaluation and Measurement Plan(s) will address all of the requirements of contract performance specified in the contract directly or by reference. A copy of the Performance Evaluation and Measurement Plan(s) shall be provided to the Contractor-
 - (i) Prior to the start of an evaluation period if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been mutually agreed to by the parties; or
 - (ii) Not later than thirty days prior to the scheduled start date of the evaluation period, if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been unilaterally established by the contracting officer.
 - (2) The Performance Evaluation and Measurement Plan(s) will set forth the criteria upon which the Contractor will be evaluated relating to any technical, schedule, management, and/or cost objectives selected for

evaluation. Such criteria should be objective, but may also include subjective criteria. The Plan(s) shall also set forth the method by which the total available fee amount will be allocated and the amount earned determined.

- (3) The Performance Evaluation and Measurement Plan(s) may, consistent with the contract statement of work, be revised during the period of performance. The contracting officer shall notify the contractor--
- (i) of such unilateral changes at least ninety calendar days prior to the end of the affected evaluation period and at least thirty calendar days prior to the effective date of the change;
 - (ii) of such bilateral changes at least sixty calendar days prior to the end of the affected evaluation period; or
 - (iii) if such change, whether unilateral or bilateral, is urgent and high priority, at least thirty calendar days prior to the end of the evaluation period.
- (e) *Schedule for total available fee amount earned determinations.* The DOE Operations/Field Office Manager, or designee, shall issue the final total available fee amount earned determination in accordance with: the schedule set forth in the Performance Evaluation and Measurement Plan(s); or as otherwise set forth in this contract. However, a determination must be made within sixty calendar days after the receipt by the contracting officer of the Contractor's self-assessment, if one is required or permitted by paragraph (f) of this clause, or seventy calendar days after the end of the evaluation period, whichever is later, or a longer period if the Contractor and contracting officer agree. If the contracting officer evaluates the Contractor's performance of specific requirements on their completion, the payment of any earned fee amount must be made within seventy calendar days (or such other time period as mutually agreed to between the contracting officer and the Contractor) after such completion. If the determination is delayed beyond that date, the Contractor shall be entitled to interest on the determined total available fee amount earned at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the payment date. This rate is referred to as the "Renegotiation Board Interest Rate," and is published in the Federal Register semiannually on or about January 1 and July 1. The interest on any late total available fee amount earned determination will accrue daily and be compounded in 30-day increments inclusive from the first day after the schedule determination date through the actual date the determination is issued. That is, interest accrued at the end of any 30-day period will be added to the determined amount of fee earned and be subject to interest if not paid in the succeeding 30-day period.

- (f) *Contractor self-assessment.* Following each evaluation period, the Contractor may submit a self-assessment, provided such assessment is submitted within 45 calendar days after the end of the period. This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The DOE Operations/Field Office Manager, or designee, will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period. A self-assessment, in and of itself may not be the only basis for the award fee determination.

I.127 - DEAR 970.5215-3 CONDITIONAL PAYMENT OF FEE, PROFIT, AND OTHER INCENTIVES – FACILITY MANAGEMENT CONTRACTS (AUG 2009) (ALTERNATE I) (AUG 2009) (PREV. I.83)

(a) *General.*

- (1) The payment of earned fee, fixed fee, profit, or share of cost savings under this contract is dependent upon the Contractor's or Contractor employees' compliance with the terms and conditions of this contract relating to environment, safety and health (ES&H), which includes worker safety and health (WS&H), including performance under an approved Integrated Safety Management System (ISMS).
- (2) The ES&H performance requirements of this contract are set forth in its ES&H terms and conditions, including the DOE approved Contractor ISMS or similar document. Financial incentives for timely mission accomplishment or cost effectiveness shall never compromise or impede full and effective implementation of the ISMS and full ES&H compliance.
- (3) If the Contractor does not meet the performance requirements of this contract relating to ES&H during any performance evaluation period established under the contract pursuant to the clause of this contract entitled, "Total Available Fee: Base Fee Amount and Performance Fee Amount," otherwise earned fee, fixed fee, profit or share of cost savings may be unilaterally reduced by the Contracting Officer.

(b) *Reduction Amount.*

- (1) The amount of earned fee, fixed fee, profit, or share of cost savings that may be unilaterally reduced will be determined by the severity of the performance failure pursuant to the degrees specified in paragraph (c) of this clause.

- (2) If a reduction of earned fee, fixed fee, profit, or share of cost savings is warranted, unless mitigating factors apply, such reduction shall not be less than 26% nor greater than 100% of the amount of earned fee, fixed fee, profit, or the Contractor's share of cost savings for a first degree performance failure, not less than 11% nor greater than 25% for a second degree performance failure, and up to 10% for a third degree performance failure.
- (3) In determining the amount of the reduction and the applicability of mitigating factors, the Contracting Officer must consider the Contractor's overall performance in meeting the ES&H requirements of the contract. Such consideration must include performance against any site specific performance criteria/requirements that provide additional definition, guidance for the amount of reduction, or guidance for the applicability of mitigating factors. In all cases, the Contracting Officer must consider mitigating factors that may warrant a reduction below the applicable range (see 48 CFR 970.1504-1-2). The mitigating factors include the following.
- (i) Degree of control the Contractor had over the event or incident.
 - (ii) Efforts the Contractor had made to anticipate and mitigate the possibility of the event in advance.
 - (iii) Contractor self-identification and response to the event to mitigate impacts and recurrence.
 - (iv) General status (trend and absolute performance) of ES&H and compliance in related areas.
 - (v) Contractor demonstration to the Contracting Officer's satisfaction that the principles of industrial ES&H standards are routinely practiced (e.g., Voluntary Protection Program Star Status, or ISO 14000 Certification).
 - (vi) Event caused by "Good Samaritan" act by the Contractor (e.g., offsite emergency response).
 - (vii) Contractor demonstration that a performance measurement system is routinely used to improve and maintain ES&H performance (including effective resource allocation) and to support DOE corporate decision-making (e.g., policy, ES&H programs).
 - (viii) Contractor demonstration that an Operating Experience and Feedback Program is functioning that demonstrably affects continuous improvement in ES&H by use of lessons-learned and best practices inter- and intra-DOE sites.

- (4) (i) The amount of fee, fixed fee, profit, or share of cost savings that is otherwise earned by a Contractor during an evaluation period may be reduced in accordance with this clause if it is determined that a performance failure warranting a reduction under this clause occurs within the evaluation period.
- (ii) The amount of reduction under this clause, in combination with any reduction made under any other clause in the contract, shall not exceed the amount of fee, fixed fee, profit, or the Contractor's share of cost savings that is otherwise earned during the evaluation period.
- (iii) For the purposes of this clause, earned fee, fixed fee, profit, or share of cost savings for the evaluation period shall mean the amount determined by the Contracting Officer or fee determination official as otherwise payable based on the Contractor's performance during the evaluation period. Where the contract provides for financial incentives that extend beyond a single evaluation period, this amount shall also include: any provisional amounts determined otherwise payable in the evaluation period; and, if provisional payments are not provided for, the allocable amount of any incentive determined otherwise payable at the conclusion of a subsequent evaluation period. The allocable amount shall be the total amount of the earned incentive divided by the number of evaluation periods over which it was earned.
- (iv) The Government will effect the reduction as soon as practicable after the end of the evaluation period in which the performance failure occurs. If the Government is not aware of the failure, it will effect the reduction as soon as practical after becoming aware. For any portion of the reduction requiring an allocation the Government will effect the reduction at the end of the evaluation period in which it determines the total amount earned under the incentive. If at any time a reduction causes the sum of the payments the Contractor has received for fee, fixed fee, profit, or share of cost savings to exceed the sum of fee, fixed fee, profit, or share of cost savings, the Contractor has earned (provisionally or otherwise), the Contractor shall immediately return the excess to the Government. (What the Contractor "has earned" reflects any reduction made under this or any other clause of the contract.)
- (v) At the end of the contract--
 - (A) The Government will pay the Contractor the amount by which the sum of fee, fixed fee, profit, or share of cost

savings the Contractor has earned exceeds the sum of the payments the Contractor has received; or

- (B) The Contractor shall return to the Government the amount by which the sum of the payments the Contractor has received exceeds the sum of fee, fixed fee, profit, or share of cost savings the Contractor has earned. (What the Contractor “has earned” reflects any reduction made under this or any other clause of the contract.)
- (c) *Environment, Safety and Health (ES&H)*. Performance failures occur if the Contractor does not comply with the contract’s ES&H terms and conditions, including the DOE approved Contractor ISMS. The degrees of performance failure under which reductions of earned or fixed fee, profit, or share of cost savings will be determined are:
 - (1) First Degree: Performance failures that are most adverse to ES&H. Failure to develop and obtain required DOE approval of an ISMS is considered first degree. The Government will perform necessary review of the ISMS in a timely manner and will not unreasonably withhold approval of the Contractor’s ISMS. The following performance failures or performance failures of similar import will be considered first degree.
 - (i) Type A accident (defined in DOE Order 225.1B, or successor version).
 - (ii) Two Second Degree performance failures during an evaluation period.
 - (2) Second Degree: Performance failures that are significantly adverse to ES&H. They include failures to comply with an approved ISMS that result in an actual injury, exposure, or exceedence that occurred or nearly occurred but had minor practical long-term health consequences. They also include breakdowns of the Safety Management System. The following performance failures or performance failures of similar import will be considered second degree:
 - (i) Type B accident (defined in DOE Order 225.1B, or successor version).
 - (ii) Non-compliance with an approved ISMS that results in a near miss of a Type A or B accident. A near miss is a situation in which an inappropriate action occurs, or a necessary action is omitted, but does not result in an adverse effect.

- (iii) Failure to mitigate or notify DOE of an imminent danger situation after discovery, where such notification is a requirement of the contract.
- (3) Third Degree: Performance failures that reflect a lack of focus on improving ES&H. They include failures to comply with an approved ISMS that result in potential breakdown of the System. The following performance failures or performance failures of similar import will be considered third degree--
 - (i) Failure to implement effective corrective actions to address deficiencies/non-compliances documented through: external (e.g., Federal) oversight and/or reported per DOE Order 232.2A requirements; or internal oversight of DOE Order 440.1A requirements.
 - (ii) Multiple similar non-compliances identified by external (e.g., Federal) oversight that in aggregate indicate a significant programmatic breakdown.
 - (iii) Non-compliances that either have, or may have, significant negative impacts to the worker, the public, or the environment or that indicate a significant programmatic breakdown.
 - (iv) Failure to notify DOE upon discovery of events or conditions where notification is required by the terms and conditions of the contract.

I.128 - DEAR 970.5217-1 STRATEGIC PARTNERSHIP PROJECTS PROGRAM (NON-DOE FUNDED WORK) (April 23, 2015) (SC Deviation) (PREV. I.134)

- (a) *Authority to Perform Strategic Partnership Projects.* Pursuant to the Economy Act of 1932, as amended (31 U.S.C. 1535) and the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.) or other applicable authority, the Contractor may perform work for non-DOE entities (sponsors) on a fully reimbursable basis in accordance with this clause.
- (b) *Contractor's Implementation.* The Contractor must draft, implement, and maintain formal policies, practices and procedures in accordance with this clause, which must be submitted to the Contracting Officer for review and approval.
- (c) *Conditions of Participation in Strategic Partnership Projects Program.* The Contractor:

- (1) Must not perform Strategic Partnership Projects activities that would place it in direct competition with the domestic private sector;
- (2) Must not respond to a request for proposals or any other solicitation from another Federal agency or non-Federal organization that involves direct comparative competition, either as an offeror, team member, or subcontractor to an offeror; however, the Contractor may, following notification to the Contracting Officer, respond to Broad Agency Announcements, Financial Assistance solicitations, and similar solicitations from another Federal Agency or non-Federal organizations when the selection is based on merit or peer review, the work involves basic or applied research to further advance scientific knowledge or understanding, and a response does not result in direct, comparative competition;
- (3) Must not commence work on any Strategic Partnership Projects activity until a Strategic Partnership Projects proposal package has been approved by the DOE Contracting Officer or designated representative;
- (4) Must not incur project costs until receipt of DOE notification that a budgetary resource is available for the project, except as provided in 48 CFR 970.5232-6;
- (5) Must ensure that all costs associated with the performance of the work, including specifically all DOE direct costs and applicable surcharges are included in any Strategic Partnership Projects proposal;
- (6) Must maintain records for the accumulation of costs and the billing of such work to ensure that DOE's appropriated funds are not used in support of Strategic Partnership Projects activities and to provide an accounting of the expenditures to DOE and the sponsor upon request;
- (7) Must perform all Strategic Partnership Projects projects in accordance with the standards, policies, and procedures that apply to performance under this contract, specifically, including but are not limited to environmental, safety and health, security, safeguards and classification procedures, and human and animal research regulations;
- (8) May subcontract portion(s) of a Strategic Partnership Projects project; however, the Contractor must select the subcontractor and the work to be subcontracted. Any subcontracted work must be in direct support of the DOE Contractor's performance as defined in the DOE approved Strategic Partnership Projects proposal package; and
- (9) Must maintain a summary listing of project information for each active Strategic Partnership Projects project, consisting of:

- (i) Sponsoring agency;
 - (ii) Total estimated costs;
 - (iii) Project title and description;
 - (iv) Project point of contact; and,
 - (v) Estimated start and completion dates.
- (d) *Negotiation and Execution of Strategic Partnership Projects Agreement.*
 - (1) When delegated authority by the Contracting Officer, the Contractor may negotiate the terms and conditions that will govern the performance of a specific Strategic Partnership Projects project. Such terms and conditions must be consistent with the terms, conditions, and requirements of the Contractor's contract with DOE. The Contractor may use DOE approved contract terms and conditions as delineated in Attachment 1 of DOE Order 481.1E or terms and conditions previously approved by the responsible Contracting Officer or authorized designee for agreements with non-Federal entities. The Contractor must not hold itself out as representing DOE when negotiating the proposed Strategic Partnership Projects agreement.
 - (2) The Contractor must submit all Strategic Partnership Projects agreements to the DOE Contracting Officer for DOE review and approval. The Contractor may not execute any proposed agreement until it has received notice of DOE approval.
- (e) Preparation of Project Proposals. When the Contractor proposes to perform Strategic Partnership Projects activities pursuant to this clause, it may assist the project sponsor in the preparation of project proposal packages including the preparation of cost estimates.
- (f) Strategic Partnership Projects Appraisals. DOE may conduct periodic appraisals of the Contractor's compliance with its Strategic Partnership Projects Program policies, practices and procedures. The Contractor must provide facilities and other support in conjunction with such appraisals as directed by the Contracting Officer or authorized designee.
- (g) Annual Strategic Partnership Projects Report. The Contractor must provide assistance as required by the Contracting Officer or authorized designee in the preparation of a DOE Annual Summary Report of Strategic Partnership Projects Activities under the contract.

I.129 - DEAR 970.5222-1 COLLECTIVE BARGAINING AGREEMENTS –
MANAGEMENT AND OPERATING CONTRACTS (DEC 2000) (PREV. I.84)

When negotiating collective bargaining agreements applicable to the work force under this contract, the Contractor shall use its best efforts to ensure such agreements contain provisions designed to assure continuity of services. All such agreements entered into during the contract period of performance should provide that grievances and disputes involving the interpretation or application of the agreement will be settled without resorting to strike, lockout, or other interruption of normal operations. For this purpose, each collective bargaining agreement should provide an effective grievance procedure with arbitration as its final step, unless the parties mutually agree upon some other method of assuring continuity of operations. As part of such agreements, management and labor should agree to cooperate fully with the Federal Mediation and Conciliation Service. The contractor shall include the substance of this clause in any subcontracts for protective services or other services performed on the DOE-owned site which will affect the continuity of operation of the facility.

I.130 - DEAR 970.5222-2 OVERTIME MANAGEMENT (DEC 2000) [SC ALTERNATE
APR 2018] (PREV. I.85)

- (a) The Contractor shall maintain adequate internal controls to ensure that employee overtime is authorized only if cost effective and necessary to ensure performance of work under this contract. The Contractor shall adhere to the principles of FAR 22.103-1 in managing overtime use. The Contractor shall, for example, only use overtime when lower overall cost to the Government will result or when it is necessary to meet urgent program needs.
- (b) The Contractor shall notify the Contracting Officer when in any given year it is likely that overtime usage as a percentage of payroll may exceed 4%.
- (c) The Contracting Officer may require the submission, for approval, of a formal annual overtime control plan whenever Contractor overtime usage as a percentage of payroll has exceeded, or is likely to exceed 4%.

I.131 - DEAR 970.5223-1 INTEGRATION OF ENVIRONMENT, SAFETY, AND
HEALTH INTO WORK PLANNING AND EXECUTION (DEC 2000) (PREV. I.86)

- (a) For the purposes of this clause,
 - (1) Safety encompasses environment, safety and health, including pollution prevention and waste minimization; and
 - (2) Employees include subcontractor employees.

- (b) In performing work under this contract, the Contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Contractor shall exercise a degree of care commensurate with the work and the associated hazards. The Contractor shall ensure that management of environment, safety and health (ES&H) functions and activities becomes an integral but visible part of the Contractor's work planning and execution processes. The Contractor shall, in the performance of work, ensure that:
- (1) Line management is responsible for the protection of employees, the public, and the environment. Line management includes those Contractor and subcontractor employees managing or supervising employees performing work.
 - (2) Clear and unambiguous lines of authority and responsibility for ensuring (ES&H) are established and maintained at all organizational levels.
 - (3) Personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities.
 - (4) Resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.
 - (5) Before work is performed, the associated hazards are evaluated and an agreed-upon set of ES&H standards and requirements are established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.
 - (6) Administrative and engineering controls to prevent and mitigate hazards are tailored to the work being performed and associated hazards. Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards and to prevent accidents and unplanned releases and exposures.
 - (7) The conditions and requirements to be satisfied for operations to be initiated and conducted are established and agreed-upon by DOE and the Contractor. These agreed-upon conditions and requirements are requirements of the contract and binding upon the Contractor. The extent of documentation and level of authority for agreement shall be tailored to the complexity and hazards associated with the work and shall be established in a Safety Management System.
- (c) The Contractor shall manage and perform work in accordance with a documented Safety Management System (System) that fulfills all conditions in

paragraph (b) of this clause at a minimum. Documentation of the System shall describe how the Contractor will—

- (1) Define the scope of work;
 - (2) Identify and analyze hazards associated with the work;
 - (3) Develop and implement hazard controls;
 - (4) Perform work within controls; and
 - (5) Provide feedback on adequacy of controls and continue to improve safety management.
- (d) The System shall describe how the Contractor will establish, document, and implement safety performance objectives, performance measures, and commitments in response to DOE program and budget execution guidance while maintaining the integrity of the System. The System shall also describe how the Contractor will measure system effectiveness.
- (e) The Contractor shall submit to the Contracting Officer documentation of its System for review and approval. Dates for submittal, discussions, and revisions to the System will be established by the Contracting Officer. Guidance on the preparation, content, review, and approval of the System will be provided by the Contracting Officer. On an annual basis, the Contractor shall review and update, for DOE approval, its safety performance objectives, performance measures, and commitments consistent with and in response to DOE's program and budget execution guidance and direction. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire System. Accordingly, the System shall be integrated with the Contractor's business processes for work planning, budgeting, authorization, execution, and change control.
- (f) The Contractor shall comply with, and assist the Department of Energy in complying with, ES&H requirements of all applicable laws and regulations, and applicable directives identified in the clause of this contract entitled "Laws, Regulations, and DOE Directives." The Contractor shall cooperate with Federal and non-Federal agencies having jurisdiction over ES&H matters under this contract.
- (g) The Contractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements and the System. If the Contractor fails to provide resolution or if, at any time, the Contractor's acts or failure to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, the Contracting Officer may issue an order stopping work in whole or in part. Any stop work order issued by a contracting officer

under this clause (or issued by the Contractor to a subcontractor in accordance with paragraph (i) of this clause) shall be without prejudice to any other legal or contractual rights of the Government. In the event that the Contracting Officer issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the Contracting Officer. The Contractor shall not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this clause.

- (h) Regardless of the performer of the work, the Contractor is responsible for compliance with the ES&H requirements applicable to this contract. The Contractor is responsible for flowing down the ES&H requirements applicable to this contract to subcontracts at any tier to the extent necessary to ensure the Contractor's compliance with the requirements.
- (i) The Contractor shall include a clause substantially the same as this clause in subcontracts involving complex or hazardous work on site at a DOE-owned or -leased facility. Such subcontracts shall provide for the right to stop work under the conditions described in paragraph (g) of this clause. Depending on the complexity and hazards associated with the work, the Contractor may choose not to require the subcontractor to submit a Safety Management System for the Contractor's review and approval.

I.132 - DEAR 970.5223-4 WORKPLACE SUBSTANCE ABUSE PROGRAMS AT DOE SITES (DEC 2010) (PREV. I.88)

- (a) *Program Implementation.* The Contractor shall, consistent with 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, incorporated herein by reference with full force and effect, develop, implement, and maintain a workplace substance abuse program.
- (b) *Remedies.* In addition to any other remedies available to the Government, the Contractor's failure to comply with the requirements of 10 CFR part 707 or to perform in a manner consistent with its approved program may render the Contractor subject to: the suspension of contract payments, or, where applicable, a reduction in award fee; termination for default; and suspension or debarment.
- (c) *Subcontracts.*
 - (1) The Contractor agrees to notify the Contracting Officer reasonably in advance of, but not later than 30 days prior to, the award of any subcontract the Contractor believes may be subject to the requirements of 10 CFR part 707, unless the Contracting Officer agrees to a different date.
 - (2) The DOE Prime Contractor shall require all subcontracts subject to the provisions of 10 CFR part 707 to agree to develop and implement a

workplace substance abuse program that complies with the requirements of 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, as a condition for award of the subcontract. The DOE Prime Contractor shall review and approve each subcontractor's program, and shall periodically monitor each subcontractor's implementation of the program for effectiveness and compliance with 10 CFR part 707.

- (3) The Contractor agrees to include, and require the inclusion of, the requirements of this clause in all subcontracts, at any tier, that are subject to the provisions of 10 CFR part 707.

I.133 - DEAR 970.5223-7 SUSTAINABLE ACQUISITION PROGRAM (OCT 2010)
(PREV. I.140)

- (a) Pursuant to Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance, the Department of Energy (DOE) is committed to managing its facilities in an environmentally preferable and sustainable manner that will promote the natural environment and protect the health and well being of its Federal employees and contractor service providers. In the performance of work under this contract, the Contractor shall provide its services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well being of Federal employees, contract service providers and visitors using the facility.
- (b) Green purchasing or sustainable acquisition has several interacting initiatives. The Contractor must comply with initiatives that are current as of the contract award date. DOE may require compliance with revised initiatives from time to time. The Contractor may request an equitable adjustment to the terms of its contract using the procedures at 48 CFR 970.5243-1 Changes. The initiatives important to these Orders are explained on the following Government or Industry Internet Sites:
 - (1) Recycled Content Products are described at <http://epa.gov/cpg>
 - (2) Biobased Products are described at <http://www.biopreferred.gov/>
 - (3) Energy efficient products are at <http://energystar.gov/products> for Energy Star products
 - (4) Energy efficient products are at <http://www.femp.energy.gov/procurement> for FEMP designated products

- (5) Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at <http://www.epeat.net> the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site
 - (6) Green house gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>
 - (7) Non-Ozone Depleting Alternative Products are at <http://www.epa.gov/ozone/strathome.html>
 - (8) Water efficient plumbing products are at <http://epa.gov/watersense>
- (c) The clauses at FAR 52.223-2, Affirmative Procurement of Biobased Products under Service and Construction Contracts, 52.223-15, Energy Efficiency in Energy Consuming Products, and 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts, require the use of products that have biobased content, are energy efficient, or have recycled content. To the extent that the services provided by the Contractor require provision of any of the above types of products, the Contractor must provide the energy efficient and environmentally sustainable type of product unless that type of product—
- (1) Is not available;
 - (2) Is not life cycle cost effective (or does not exceed 110% of the price of alternative items if life cycle cost data is unavailable), EPEAT is an example of lifecycle costs that have been analyzed by DOE and found to be acceptable at the silver and gold level;
 - (3) Does not meet performance needs; or,
 - (4) Cannot be delivered in time to meet a critical need.
- (d) In the performance of this contract, the Contractor shall comply with the requirements of Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, (<http://www.epa.gov/greeningepa/practices/eo13423.htm>) and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance (<http://www.archives.gov/federal-register/executive-orders/disposition.html>). The Contractor shall also consider the best practices within the DOE Acquisition Guide, Chapter 23, Acquisition Considerations Regarding Federal Leadership in Environmental, Energy, and Economic

Performance. This guide includes information concerning recycled content products, biobased products, energy efficient products, water efficient products, alternative fuels and vehicles, non-ozone depleting substances and other environmentally preferable products and services. This guide is available on the Internet at: <http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf>.

- (e) Contractors must establish and maintain a documented energy management program which includes requirements for energy and water efficient equipment, EnergyStar or WaterSense, as applicable and procedures for verification of purchases, following the criteria in DOE Order 430.2B, Departmental Energy, Renewable Energy, and Transportation Management, Attachment 1, or its successor. This requirement should not be flowed down to subcontractors.
- (f) In complying with the requirements of paragraph (c) of this clause, the Contractor shall coordinate its activities with and submit required reports through the Environmental Sustainability Coordinator or equivalent position.
- (g) The Contractor shall prepare and submit performance reports using prescribed DOE formats, at the end of the Federal fiscal year, on matters related to the acquisition of environmentally preferable and sustainable products and services. This is a material delivery under the contract. Failure to perform this requirement may be considered a failure that endangers performance of this contract and may result in termination for default [see FAR 52.249-6, Termination (Cost Reimbursement)].
- (h) These provisions shall be flowed down only to first tier subcontracts exceeding the simplified acquisition threshold that support operation of the DOE facility and offer significant subcontracting opportunities for energy efficient or environmentally sustainable products or services. The Subcontractor will comply with the procedures in paragraphs (c) through (f) of this clause regarding the collection of all data necessary to generate the reports required under paragraphs (c) through (f) of this clause, and submit the reports directly to the Prime Contractor's Environmental Sustainability Coordinator at the supported facility. The Subcontractor will advise the Contractor if it is unable to procure energy efficient and environmentally sustainable items and cite which of the reasons in paragraph (c) of this clause apply. The reports may be submitted at the conclusion of the subcontract term provided that the subcontract delivery term is not multi-year in nature. If the delivery term is multi-year, the Subcontractor shall report its accomplishments for each Federal fiscal year in a manner and at a time or times acceptable to both parties. Failure to comply with these reporting requirements may be considered a breach of contract with attendant consequences.
- (i) When this clause is used in a subcontract, the word "Contractor" will be understood to mean "Subcontractor."

I.134 - DEAR 970.5225-1 COMPLIANCE WITH EXPORT CONTROL LAWS AND REGULATIONS (NOV 2015) (PREV. I.158)

- (a) The Contractor shall comply with all applicable U.S. export control laws and regulations.
- (b) The Contractor's responsibility to comply with all applicable laws and regulations exists independent of, and is not established or limited by, the information provided by this clause.
- (c) Nothing in the terms of this contract adds to, changes, supersedes, or waives any of the requirements of applicable Federal laws, Executive Orders, and regulations, including but not limited to--
 - (1) The Atomic Energy Act of 1954, as amended;
 - (2) The Arms Export Control Act (22 U.S.C. 2751 et seq.);
 - (3) The Export Administration Act of 1979 (50 U.S.C. app. 2401 et seq.), as continued under the International Emergency Economic Powers Act (Title II of Pub. L. 95-223, 91 Stat. 1626, October 28, 1977; 50 U.S.C. 1701 et seq.);
 - (4) Trading with the Enemy Act (50 U.S.C. App. 5(b), as amended by the Foreign Assistance Act of 1961);
 - (5) Assistance to Foreign Atomic Energy Activities (10 CFR part 810);
 - (6) Export and Import of Nuclear Equipment and Material (10 CFR part 110);
 - (7) International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130);
 - (8) Export Administration Regulations (EAR) (15 CFR parts 730 through 774); and
 - (9) Regulations administered by the Office of Foreign Assets Control (31 CFR parts 500 through 598).
- (d) In addition to the Federal laws and regulations cited above, National Security Decision Directive (NSDD) 189, National Policy on the Transfer of Scientific, Technical, and Engineering Information establishes a national policy that, to the maximum extent possible, the products of fundamental research shall remain unrestricted. NSDD 189 provides that no restrictions may be placed upon the conduct or reporting of federally funded fundamental research that has not received national security classification, except as provided in applicable U.S.

statutes. As a result, contracts confined to the performance of unclassified fundamental research generally do not involve any export-controlled activities. NSDD 189 does not take precedence over statutes. NSDD 189 does not exempt any research from statutes that apply to export controls such as the Atomic Energy Act, as amended; the Arms Export Control Act; the Export Administration Act of 1979, as amended; or the U.S. International Emergency Economic Powers Act; or the regulations that implement those statutes (e.g., the ITAR, the EAR, 10 CFR part 110 and 10 CFR part 810). Thus, if items (e.g., commodities, software or technologies) that are controlled by U.S. export control laws or regulations are used to conduct research or are generated as part of the research efforts, the export control laws and regulations apply to the controlled items.

- (e) The Contractor shall include the substance of this clause, including this paragraph (e), in all solicitations and subcontracts.

I.135 - DEAR 970.5226-1 DIVERSITY PLAN (DEC 2000) (PREV. I.89)

The Contractor shall submit a Diversity Plan to the Contracting Officer for approval within 90 days after the effective date of this contract (or contract modification, if appropriate). The Contractor shall submit an update to its Plan annually. By February 1 of each fiscal year, DOE will issue its guidance to the Contractor for the annual Diversity Plan for the fiscal year. The Contractor shall submit its annual Diversity Plan to DOE no later than April 16 of each year. The Plan shall include innovative strategies for increasing opportunities to fully use the talents and capabilities of a diverse work force. The Plan shall address, at a minimum, the Contractor's approach for promoting diversity through (1) the Contractor's work force, (2) educational outreach, (3) community involvement and outreach, (4) subcontracting, (5) economic development (including technology transfer), and (6) the prevention of profiling based on race or national origin.

I.136 - DEAR 970.5226-3 COMMUNITY COMMITMENT (DEC 2000) (PREV. I.90)

It is the policy of the DOE to be a constructive partner in the geographic region in which DOE conducts its business. The basic elements of this policy include: (1) Recognizing the diverse interests of the region and its stakeholders, (2) engaging regional stakeholders in issues and concerns of mutual interest, and (3) recognizing that giving back to the community is a worthwhile business practice. Accordingly, the Contractor agrees that its business operations and performance under the Contract will be consistent with the intent of the policy and elements set forth above.

I.137 - DEAR 970.5227-2 RIGHTS IN DATA --TECHNOLOGY TRANSFER (DEC 2000)
[SC ALTERNATE SEP 2018] (PREV. I.91)

- (a) *Definitions. Assistant General Counsel for Technology Transfer and Intellectual Property* is the senior intellectual property counsel for the Department of Energy, as distinguished from the NNSA Patent Counsel, and, where used in this clause, indicates that the authority for the activity(ies) being described belongs to DOE.

Computer data bases, as used in this clause, means a collection of data in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.

Computer software, as used in this clause, means (i) computer programs which are data comprising a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations and (ii) data comprising source code listings, design details, algorithms, processes, flow charts, formulae, and related material that would enable the computer program to be produced, created, or compiled. The term does not include computer data bases.

Data, as used in this clause, means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term "data" does not include data incidental to the administration of this contract, such as financial, administrative, cost and pricing, or management information.

Department of Energy (DOE), as used in this clause, includes the National Nuclear Security Administration (NNSA), unless otherwise identified or indicated.

Limited rights data, as used in this clause, means data, other than computer software, developed at private expense that embody trade secrets or are commercial or financial and confidential or privileged. The Government's rights to use, duplicate, or disclose limited rights data are as set forth in the Limited Rights Notice of paragraph ~~(g)~~ (h) of this clause.

Open source software, as used in this clause, means computer software that is distributed under a license in which the user is granted the right to use, copy, modify, prepare derivative works and distribute, in source code or other format, the software, in original or modified form and derivative works thereof, without having to make royalty payments.

Patent Counsel means the DOE or NNSA Patent Counsel assisting the contracting activity.

Restricted computer software, as used in this clause, means computer software developed at private expense and that is a trade secret; is commercial or

financial and is confidential or privileged; or is published copyrighted computer software, including minor modifications of any such computer software. The Government's rights to use, duplicate, or disclose restricted computer software are as set forth in the Restricted Rights Notice of paragraph (i) of this clause.

Technical data, as used in this clause, means recorded data, regardless of form or characteristic, that are of a scientific or technical nature. Technical data does not include computer software, but does include manuals and instructional materials and technical data formatted as a computer data base.

Unlimited rights, as used in this clause, means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, including by electronic means, and perform publicly and display publicly, in any manner, including by electronic means, and for any purpose whatsoever, and to have or permit others to do so.

(b) *Allocation of Rights.*

(1) The Government shall have:

- (i) Ownership of all technical data and computer software first produced in the performance of this Contract;
- (ii) Unlimited rights in technical data and computer software first produced or specifically used in the performance of this Contract, except as provided herein regarding copyright, limited rights data, or restricted computer software, and except for data subject to the withholding provisions for protected Cooperative Research and Development Agreement (CRADA) information in accordance with Technology Transfer actions under this Contract, or other data specifically protected by statute for a period of time or, where approved by Patent Counsel, appropriate instances of the DOE Strategic Partnership Projects (SPP) Program;
- (iii) The right to inspect technical data and computer software first produced or specifically used in the performance of this Contract at all reasonable times. The Contractor shall make available all necessary facilities to allow DOE personnel to perform such inspection;
- (iv) The right to have all technical data and computer software first produced or specifically used in the performance of this Contract delivered to the Government or otherwise disposed of by the Contractor, either as the contracting officer may from time to time direct during the progress of the work or in any event as the contracting officer shall direct upon completion or termination of this

Contract. The Contractor agrees to leave a copy of such data at the facility or plant to which such data relate, and to make available for access or to deliver to the Government such data upon request by the contracting officer. If such data are limited rights data or restricted computer software, the rights of the Government in such data shall be governed solely by the provisions of paragraph (h) of this clause ("Rights in Limited Rights Data") or paragraph (i) of this clause ("Rights in Restricted Computer Software"). When delivering all contractor produced computer software to the DOE Office of Scientific and Technical Information (OSTI), the Contractor shall submit a complete package as prescribed in paragraph (e)(3) of this clause; and

- (v) The right to remove, cancel, correct, or ignore any markings not authorized by the terms of this Contract on any data furnished hereunder if, in response to a written inquiry by DOE concerning the propriety of the markings, the Contractor fails to respond thereto within 60 days or fails to substantiate the propriety of the markings. In either case DOE will notify the Contractor of the action taken.
- (2) The Contractor shall have:
- (i) The right to withhold limited rights data and restricted computer software unless otherwise provided in provisions of this clause;
 - (ii) The right to use for its private purposes, subject to patent, security or other provisions of this Contract, data it first produces in the performance of this Contract, except for data in DOE's Uranium Enrichment Technology, including diffusion, centrifuge, and atomic vapor laser isotope separation, provided the data requirements of this Contract have been met as of the date of the private use of such data; and
 - (iii) The right to assert copyright subsisting in scientific and technical works, and works produced by Contractor under DEAR 952.204-75, as provided in paragraph (d) of this clause, and the right to request permission to assert copyright subsisting in works other than scientific and technical works as provided in paragraph (e) of this clause.
- (3) The Contractor agrees that for limited rights data or restricted computer software or other technical business or financial data in the form of recorded information which it receives from, or is given access to by DOE or a third party, including a DOE contractor or subcontractor, and for technical data or computer software it first produces under this Contract

which is authorized to be marked by DOE, the Contractor shall treat such data in accordance with any restrictive legend contained thereon.

- (4) In the performance of DOE contracted obligations, the Contractor is required to manage scientific and technical information (STI) produced under the contract as a direct and integral part of the work and ensure its broad availability to all customer segments by making STI available to DOE's central STI coordinating office (OSTI) per DOE O 241.1B or its successor version.

(c) *Copyright (General).*

- (1) The Contractor agrees not to mark, register, or otherwise assert copyright in any data in a published or unpublished work, other than as set forth in paragraphs (d), (e) or (f) of this clause.
- (2) Except for material to which the Contractor has obtained the right to assert copyright in accordance with either paragraph paragraphs (d), (e) or (f) of this clause, the Contractor agrees not to include in the data delivered under this Contract any material copyrighted by the Contractor and not to knowingly include any material copyrighted by others without first granting or obtaining at no cost a license therein for the benefit of the Government of the same scope as set forth in paragraph (d) of this clause. If the Contractor believes that such copyrighted material for which the license cannot be obtained must be included in the data to be delivered, rather than merely incorporated therein by reference, the Contractor shall obtain the written authorization of the contracting officer to include such material in the data prior to its delivery.
- (3) If the Contractor has not been granted permission to copyright data or computer software first produced under the contract where such permission is necessary and if the Government desires to obtain copyright in such data or computer software, the Contracting Officer may direct the Contractor to establish claim to copyright in such data or computer software and to assign such copyright to the Government or its designated assignee.

(d) *Copyrighted works (scientific and technical works).*

- (1) The Contractor shall have the right to assert, without prior approval of the contracting officer, copyright subsisting in scientific and technical works composed under this contract or based on or containing data first produced by the Contractor in the performance of this Contract, and published in academic, technical or professional journals, symposia, proceedings, contributions to chapters of book compilations or similar means of dissemination to make broadly available to the public or

scientific community for the purpose of scientific research, knowledge and education. Such scientific and technical works may be recorded or fixed in any medium including but not limited to print, online, web, audio, video or other medium, and released or disseminated through any communication or distribution channel including but not limited to articles, reports, books, non-architectural drawings, repositories, videos, websites, workshops, or social media.

When assertion of copyright is made, the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 and acknowledgment of Government sponsorship (including contract number) on the data when such data are delivered to the Government as well as when the data are published or deposited for registration as a published work in the U.S. Copyright Office. The Contractor grants to the Government, and others acting on its behalf, a nonexclusive, paid-up, irrevocable, world-wide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.

- (2) For each scientific or technical work first produced or composed under this Contract and submitted for publication or similar means of dissemination, the contractor shall provide notice to the publisher of the Government's license in the copyright that is substantially similar to or otherwise references one of the notices below:

A suitable notice (long version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright;

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the work for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this work, or allow others to do so, for United States Government purposes. The Department of Energy will provide public access to these results of federally sponsored research in accordance with the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

A suitable notice (short version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright follows:

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the

U.S. Department of Energy. Publisher acknowledges the U.S. Government license and provide public access under the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

- (3) The title to the copyright of the original of unclassified graduate theses and the original of related unclassified scientific papers shall vest in the author thereof, subject to the right of DOE to retain duplicates of such documents and to use such documents for any purpose whatsoever without any claim on the part of the author or the contractor for additional compensation.
- (e) *Copyrighted works (other than scientific and technical works and data produced under a CRADA).* The Contractor may obtain permission to assert copyright subsisting in technical data and computer software first produced by the Contractor in performance of this Contract, when the Contractor needs to control distribution to advance the goals of the technology transfer mission and where the Contractor can show that commercialization would be enhanced by such copyright protection, subject to the following:
 - (1) Contractor Request to Assert Copyright.
 - (i) Except for scientific and technical works under (d) above and data produced under a CRADA, the Contractor shall submit in writing to Patent Counsel its request to assert copyright in data first produced in the performance of this Contract pursuant to this clause. The right of the Contractor to copyright data first produced under a CRADA is as described in the individual CRADA. Each request by the Contractor must include:
 - (A) The identity of the data (including any computer software) for which the Contractor requests permission to assert copyright, as well as an abstract which is descriptive of the data and is suitable for dissemination purposes,
 - (B) The funding program under which it was funded,
 - (C) Whether, to the best knowledge of the Contractor, the data is subject to an international treaty or agreement,
 - (D) Whether the data is subject to export control,
 - (E) A statement that the Contractor plans to commercialize the data in compliance with the clause of this contract entitled, "Technology Transfer Mission," within five (5) years after obtaining permission to assert copyright or, on a case-by-case basis, a specified longer period where the Contractor

can demonstrate that the ability to commercialize effectively is dependent upon such longer period, and

- (F) For data other than computer software, a statement explaining why the assertion of copyright is necessary to enhance commercialization and is consistent with DOE's dissemination responsibilities.
- (ii) For data that is developed using other funding sources in addition to DOE funding, the permission to assert copyright in accordance with this clause must also be obtained by the Contractor from all other funding sources prior to the Contractor's request to Patent Counsel. The request shall include the Contractor's certification or other documentation acceptable to Patent Counsel demonstrating such permission has been obtained.
- (iii) Permission for the Contractor to assert copyright in excepted categories of data as determined exclusively by DOE will be expressly withheld. Such excepted categories include data whose release (A) would be detrimental to national security, i.e., classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act of 1954, as amended, or are subject to export control for nonproliferation and other nuclear-related national security purposes, (B) would not enhance the appropriate transfer or dissemination and commercialization of such data, (C) would have a negative impact on U.S. industrial competitiveness; (D) would prevent DOE from meeting its obligations under treaties and international agreements, or (E) would be detrimental to one or more of DOE's programs.
- (iv) The Contractor will obtain the advanced written permission of the Patent Counsel to assert copyright where data are determined to be in the following excepted categories: (a) under export control restrictions, (b) developed with Naval Reactors' funding, (c) subject to disposition of data rights under treaties and international agreements. Additional excepted categories may be added by the Assistant General Counsel for Technology Transfer and Intellectual Property. Where data are determined to be under export control restriction, the Contractor may obtain permission to assert copyright subject to the provisions of this clause for purposes of limited commercialization in a manner that complies with export control statutes and applicable regulations. In addition, notwithstanding any other provision of this Contract, all data developed with Naval Reactors' funding and those data that are classified fall within excepted categories. The rights of the Contractor in data are subject to the disposition of data rights in the treaties and

international agreements identified at DOE's Office of International Affairs (International Commitments—IEC) (<http://energy.gov/ia/iec-documents>).

- (2) Patent Counsel—Review and Response to Contractor's Request. The Patent Counsel shall use its best efforts to respond in writing within 60 days of receipt of a complete request by the Contractor to assert copyright in technical data and computer software pursuant to this clause. Such response shall either give or withhold DOE's permission for the Contractor to assert copyright or advise the Contractor that DOE needs additional time to respond, and the reasons therefor. If Patent Counsel grants permission for the Contractor to assert copyright in computer software, the permission automatically extends to subsequent minor versions (e.g., minor revisions, patches and bug fixes) having the same funding source, same name and substantially same functionality as the original computer software, and may be extended to subsequent major versions representing significant modifications of the program with the approval of Patent Counsel.
- (3) Permission for Contractor to Assert Copyright.
 - (i) For computer software, the Contractor shall furnish, or make available, to OSTI in accordance with OSTI guidelines at the time permission to assert copyright is given under paragraph (e)(2) of this clause:
 - (A) announcement information/metadata contained in the Software Announcement Notice 241,
 - (B) the source code and executable file for each software program, and
 - (C) documentation, if any, which may consist of a user manual, sample test cases, or similar information, needed by a technically competent user to understand and use the software (whether included on the software media itself or provided in a separate file or in paper format).
 - (ii) The Contractor acknowledges that the DOE designated software distribution and control point may provide a technical description of the software in an announcement identifying its availability from the copyright holder.
 - (iii) Unless otherwise directed by the Patent Counsel, for data other than computer software to which the Contractor has received permission to assert copyright under paragraph (e)(2) of this clause

above, the Contractor shall within sixty (60) days of obtaining such permission furnish, or make available, to OSTI in accordance with OSTI guidelines, a copy of such data as well as an abstract of the data suitable for dissemination purposes. The Contractor acknowledges that OSTI may provide an abstract of the data in an announcement to DOE, its contractors and to the public identifying its availability from the copyright holder.

- (iv) Once the Contractor is given permission to assert copyright in data, the Contractor may begin to commercialize the copyrighted data by making copyrighted data available for licensing to third parties and by offering other types of distribution to third parties. During the period in which commercialization activities pertaining to the copyrighted data are continuing, or for a specified period of time prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, prepare derivative works and perform publicly and display publicly, by or on behalf of the Government. For all previously approved and current copyrighted data that the Contractor is actively commercializing, the Contractor may continue to commercialize in accordance with this paragraph.
- (v) When the Contractor abandons commercialization activities pertaining to the copyrighted data or at the end of the specified periods as prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.
- (vi) If at any time the Contractor abandons commercialization activities for copyrighted data, it shall notify OSTI and Patent Counsel, and upon request assign the copyright to the Government, so that the Government can distribute the data to the public. When the Contractor abandons commercialization activities, the Contractor will provide to OSTI the latest version of the copyrighted data (for example, source code, object code, minimal support documentation, drawings or updated manuals). In addition, the Contractor will provide annually to Patent Counsel, if requested, a list of all copyrighted data that the Contractor has abandoned commercial licensing activity during that year.
- (vii) Whenever the Contractor asserts copyright in data pursuant to this paragraph (e), the Contractor shall affix the applicable copyright

notice of 17 U.S.C. 401 or 402 on the copyrighted data and also an acknowledgment of the Government sponsorship and license rights of paragraphs (e)(3)(iv) and (v) of this clause. Such action shall be taken when the data are delivered to the Government, licensed or deposited for registration as a published work in the U.S. Copyright Office, or when submitted for publication. The acknowledgment of Government sponsorship and license rights shall be substantially similar to the following:

Notice: These data were produced by (insert name of Contractor) under Contract No. _____ with the Department of Energy. During the period of commercialization or such other time period specified by DOE, the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, and perform publicly and display publicly, by or on behalf of the Government. Subsequent to that period, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, distribute copies to the public, perform publicly and display publicly, and to permit others to do so. The specific term of the license can be identified by inquiry made to Contractor or DOE. NEITHER THE UNITED STATES NOR THE UNITED STATES DEPARTMENT OF ENERGY, NOR ANY OF THEIR EMPLOYEES, MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF ANY DATA, APPARATUS, PRODUCT, OR PROCESS DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS.

(End of notice)

- (viii) With respect to any data to which the Contractor has received permission to assert copyright, the DOE has the right, during the period that Contractor is commercializing the software as provided for in paragraph (e)(3)(iv) of this clause, to request the Contractor to grant a nonexclusive, partially exclusive or exclusive license in any field of use to a responsible applicant(s) upon terms that are reasonable under the circumstances, and if the Contractor refuses such request, to grant such license itself, if the DOE determines that the Contractor has not made a satisfactory demonstration that either it or its licensee(s) is actively pursuing commercialization of the data as set forth in subparagraph (e)(1)(i) of this clause. Before licensing under this subparagraph (viii), DOE shall furnish the Contractor a written request for the Contractor to grant the stated

license, and the Contractor shall be allowed thirty (30) days (or such longer period as may be authorized by the contracting officer for good cause shown in writing by the Contractor) after such notice to show cause why the license should not be granted. The Contractor shall have the right to appeal the decision of the DOE to grant the stated license to the Invention Licensing Appeal Board as set forth in 10 CFR 781.65—"Appeals."

- (ix) No costs shall be allowable for maintenance of copyrighted data, primarily for the benefit of the Contractor and/or a licensee which exceeds DOE Program needs, except as expressly provided in writing by the contracting officer. The Contractor may use its net royalty income to effect such maintenance costs.

- (4) The following notice may be included in computer software prior to any publication or release and prior to the Contractor's obtaining permission from the Department of Energy to assert copyright in the computer software pursuant to paragraph (c)(3) of this section.

Notice: This computer software was prepared by [insert the Contractor's name and the individual author], hereinafter the Contractor, under Contract [insert the Contract Number] with the Department of Energy (DOE). All rights in the computer software are reserved by DOE on behalf of the United States Government and the Contractor as provided in the Contract. You are authorized to use this computer software for Governmental purposes but it is not to be released or distributed to the public. NEITHER THE GOVERNMENT NOR THE CONTRACTOR MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LIABILITY FOR THE USE OF THIS SOFTWARE. This notice including this sentence must appear on any copies of this computer software.

(End of notice)

- (5) A similar notice can be used for data, other than computer software, prior to any publication or release and prior to Contractor's obtaining permission of DOE Patent Counsel to assert copyright.
- (f) *Open software source.* The Contractor may release computer software first produced by the Contractor in the performance of this contract under an open source software license. Such software shall hereinafter be referred to as open source software or OSS, subject to the following:
 - (1) *DOE Program notice for copyright assertion for OSS.*

- (i) The Contractor shall provide written notice to each DOE Program(s) that have provided a substantial portion of the funding (funding source(s)) to develop the software that the Contractor intends to release as OSS unless the funding Program(s) have previously provided blanket approval for all software developed with funding from that Program or a specific DOE project stipulates the software to be released as OSS. Unless Program has objected to the assertion of copyright within ten working days of such written notice, the Contractor may assert copyright in the software. If notification to funding DOE Program(s) is not practicable, the Contractor shall consult with Patent Counsel, which may provide approval. For software developed under a CRADA, User Facility Agreement, or SPP Agreement, authorization from the CRADA Participant(s) or User Facility User(s), or SPP Sponsor(s), as applicable, shall be additionally obtained for OSS release unless such Agreement has a provision providing for copyright.
 - (ii) If the software is developed with funding from a federal government agency or agencies (funding source(s)) other than DOE, then authorization from all the funding agency(ies) shall be obtained for OSS release, if practicable. Such federal government_agency(ies) may provide blanket approval for all software developed with funding from that agency(ies). However, OSS release of any one of such software shall be subject to approval by all other funding sources for the software, if any. If approval from such federal government agency(ies) is not practicable, the Patent Counsel may provide approval instead.
- (2) *Assert copyright in the OSS.* Once the Contractor has met the Program and sponsor approval requirements set forth in accordance with paragraph (f)(1) of this clause, copyright in the software to be distributed as OSS, may be asserted by the Contractor, or, for OSS developed under a CRADA or, User Facility, Agreement, or SPP Agreement, copyright in the software to be distributed as OSS may be asserted either by the Contractor, CRADA Participant, or User Facility User, or SPP Sponsor, as applicable, which whereby such assertion precludes marking such OSS as Protected from public distribution.
- (3) *Submit Software Announcement Notice 241.4 for OSS to OSTI.* The Contractor must submit the Software Announcement Notice (AN) 241.4 (or the current notice as may be required by DOE) to DOE's OSTI, which may require the unique URL (i.e., a persistent identifier) from which the software can be obtained so that OSTI can announce the availability of the OSS and the public has access via the URL.

- (4) *Maintain OSS record.* The Contractor must maintain adequate records of all software distributed as OSS. Upon request of the Patent Counsel, the Contractor shall provide the necessary information regarding any or all OSS.
- (5) *Provide public access to the OSS.* The Contractor shall ensure that the OSS is publicly accessible as open source via the Contractor's website, DOE, software repositories or other industry methods.
- (6) *Select an OSS license.* Each OSS will be distributed pursuant to an OSS license. The Contractor may choose among industry standard OSS licenses or create its own set of Contractor standard licenses. To assist the Contractor, the Assistant General Counsel for Technology Transfer and Intellectual Property, may periodically issue guidance on OSS licenses. Each Contractor-created OSS license, must contain, at a minimum, the following provisions:
 - (i) An industry standard disclaimer for licensees' and third parties' use of the software; and
 - (ii) A grant of permission for licensee to distribute OSS containing the licensee's derivative works. This provision may allow the licensee and third parties to commercialize their derivative works or might request that the licensee's derivative works be forwarded to the Contractor for incorporation into future OSS versions.
- (7) Collection of administrative costs is permissible. However, the Contractor may not collect a royalty or other fee in excess of a good faith amount for cost recovery from any licensee for the Contractor's OSS.
- (8) *Relationship to other required clauses in the contract.* OSS distributed in accordance with this section shall not be subject to the requirements relating to indemnification of the Contractor or Federal Government, U.S. Competitiveness and U.S. Preference, as set forth in paragraphs (f) and (g) of the clause within this contract entitled Technology Transfer Mission (48 CFR 970.5227-3). The requirement for the Contractor to request permission to assert copyright for the purpose of engaging in licensing software for royalties, as set forth elsewhere in this clause, is not modified by this section.
- (9) *Government license.* For all OSS, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in data copyrighted to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.

- (10) *Contractor abandons OSS.* If the Contractor ceases to make OSS publicly available, then the Contractor shall submit to OSTI the object code and source code of the latest version of the OSS developed by the Contractor in addition to a revised Announcement Notice 241.4 (which includes an abstract) and the Contractor shall direct any inquiries from third parties seeking to obtain the original OSS to OSTI.
- (g) *Subcontracting.*
- (1) Unless otherwise directed by the contracting officer, the Contractor agrees to use in subcontracts in which technical data or computer software is expected to be produced or in subcontracts for supplies that contain a requirement for production or delivery of data in accordance with the DOE policy and procedures by using "Rights in Data-General" at 48 CFR 52.227-14 modified in accordance with 927.409(a) and including Alternate V. Other modifications (e.g., Alternates II through IV of that clause or using "Special Works" at 48 CFR 52.227-17) may be made with the approval of the Patent Counsel. The Contractor shall not acquire rights in a subcontractor's limited rights data or restricted computer software, except through the use of Alternates II or III, respectively, without the prior approval of the Patent Counsel. The clause at 48 CFR 52.227-16, Additional Data Requirements, shall be included in subcontracts in accordance with 48 CFR 927.409(h). In subcontracts, including subcontracts for related support services, involving the design or operation of any plants or facilities or specially designed equipment for such plants or facilities that are managed or operated under its contract with DOE, the Contractor shall instead use the "Rights in Data-Facilities" clause at 48 CFR 970.5227-1.
- (2) It is the responsibility of the Contractor to obtain from its subcontractors technical data and computer software and rights therein, on behalf of the Government, necessary to fulfill the Contractor's obligations to the Government with respect to such data. In the event of refusal by a subcontractor to accept a clause affording the Government such rights, the Contractor shall: (i) Promptly submit written notice to the contracting officer setting forth reasons or the subcontractor's refusal and other pertinent information which may expedite disposition of the matter, and (ii) Not proceed with the subcontract without the written authorization of the contracting officer.
- (3) Neither the Contractor nor higher-tier subcontractors shall use their power to award subcontracts as economic leverage to acquire rights in a subcontractor's limited rights data and restricted computer software for their private use.

- (h) *Rights in Limited Rights Data.* Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable nonexclusive, paid-up license by or for the Government, in any limited rights data of the Contractor specifically used in the performance of this Contract, provided, however, that to the extent that any limited rights data when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Limited Rights Notice" set forth below. All such limited rights data shall be marked with the following "Limited Rights Notice."

Limited Rights Notice

These data contain "limited rights data," furnished under Contract No. _____ with the United States Department of Energy which may be duplicated and used by the Government with the express limitations that the "limited rights data" may not be disclosed outside the Government or be used for purposes of manufacture without prior permission of the Contractor, except that further disclosure or use may be made solely for the following purposes:

- (a) Use (except for manufacture) by support services contractors within the scope of their contracts; (b) This "limited rights data" may be disclosed for evaluation purposes under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; (c) This "limited rights data" may be disclosed to other contractors participating in the Government's program of which this Contract is a part for information or use (except for manufacture) in connection with the work performed under their contracts and under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; (d) This "limited rights data" may be used by the Government or others on its behalf for emergency repair or overhaul work under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; and (e) Release to a foreign government, or instrumentality thereof, as the interests of the United States Government may require, for information or evaluation, or for emergency repair or overhaul work by such government. This Notice shall be marked on any reproduction of this data in whole or in part.

(End of Notice)

- (i) Rights in restricted computer software.
- (1) Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up, license by

or for the Government, in any restricted computer software of the Contractor specifically used in the performance of this Contract; provided, however, that to the extent that any restricted computer software when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Restricted Rights Notice" set forth below. All such restricted computer software shall be marked with the following "Restricted Rights Notice:"

Restricted Rights Notice - Long Form (a) This computer software is submitted with restricted rights under Department of Energy Contract No. _____. It may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b) of this notice. (b) This computer software may be: (1) Used or copied for use in or with the computer or computers for which it was acquired, including use at any Government installation to which such computer or computers may be transferred; (2) Used, copied for use, in a backup or replacement computer if any computer for which it was acquired is inoperative or is replaced; (3) Reproduced for safekeeping (archives) or backup purposes; (4) Modified, adapted, or combined with other computer software, provided that only the portions of the derivative software consisting of the restricted computer software are to be made subject to the same restricted rights; and (5) Disclosed to and reproduced for use by contractors under a service contract (of the type defined in 48 CFR 37.101) in accordance with subparagraphs (b)(1) through (4) of this Notice, provided the Government makes such disclosure or reproduction subject to these restricted rights. (c) Notwithstanding the foregoing, if this computer software has been published under copyright, it is licensed to the Government, without disclosure prohibitions, with the rights set forth in the restricted rights notice above. (d) This Notice shall be marked on any reproduction of this computer software, in whole or in part.
(End of notice)

- (2) Where it is impractical to include the Restricted Rights Notice on restricted computer software, the following short-form Notice may be used in lieu thereof:

Restricted Rights Notice - Short Form Use, reproduction, or disclosure is subject to restrictions set forth in the Long Form Notice of DOE Contract No. _____ with (name of Contractor).
(End of notice)

- (3) If the software is embedded, or if it is commercially impractical to mark it with human readable text, then the symbol R and the clause date (mo/yr)

in brackets or a box, e.g., a [R-mo/yr], may be used. This will be read to mean restricted computer software, subject to the rights of the Government as described in the Long Form Notice, in effect as of the date indicated next to the symbol. The symbol shall not be used to mark human readable material. In the event this Contract contains any variation to the rights in the Long Form Notice, then the contract number must also be cited.

- (4) If restricted computer software is delivered with the copyright notice of 17 U.S.C. 401, the software will be presumed to be published copyrighted computer software licensed to the Government without disclosure prohibitions and with unlimited rights, unless the Contractor includes the following statement with such copyright notice "Unpublished-rights reserved under the Copyright Laws of the United States."
- (j) *Relationship to patents.* Nothing contained in this clause creates or is intended to imply a license to the Government in any patent or is intended to be construed as affecting the scope of any licenses or other rights otherwise granted to the Government under any patent.

I.138 - DEAR 970.5227-3 TECHNOLOGY TRANSFER MISSION (AUG 2019) [SC
ALTERNATE APR 2018] (PREV. I.92)

This clause has as its purpose implementation of the National Competitiveness Technology Transfer Act of 1989 (Sections 3131, 3132, 3133, and 3157 of Pub. L. 101-189 and as amended by Pub. L. 103-160, Sections 3134 and 3160). The Contractor shall conduct technology transfer activities with a purpose of providing benefit from Federal research to U.S. industrial competitiveness.

- (a) *Authority.*
 - (1) In order to ensure the full use of the results of research and development efforts of, and the capabilities of, the Laboratory, technology transfer, including Cooperative Research and Development Agreements (CRADAs), is established as a mission of the Laboratory consistent with the policy, principles and purposes of Sections 11(a)(1) and 12(g) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a); Section 3132(b) of Pub. L. 101-189, Sections 3134 and 3160 of Pub. L. 103-160, and of Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.); Section 152 of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2182); Section 9 of the Federal Nonnuclear Energy Research and Development Act of 1974 (42 U.S.C. 5908); and Executive Order 12591 of April 10, 1987.

- (2) In pursuing the technology transfer mission, the Contractor is authorized to conduct activities including but not limited to: identifying and protecting Intellectual Property made, created or acquired at or by the Laboratory; negotiating licensing agreements and assignments for Intellectual Property made, created or acquired at or by the Laboratory that the Contractor controls or owns; bailments; negotiating all aspects of and entering into CRADAs; providing technical consulting and personnel exchanges; conducting science education activities and reimbursable Strategic Partnership Projects (SPP); providing information exchanges; and making available laboratory user facilities. It is fully expected that the Contractor shall use all of the mechanisms available to it to accomplish this technology transfer mission, including, but not limited to, CRADAs, user facilities, SPP, science education activities, consulting, personnel exchanges, assignments, and licensing in accordance with this clause.
- (3) Trademarks and service marks. The Contractor, with notification to DOE Patent Counsel, is authorized to protect goods/services resulting from work at the Laboratory through Trademark and Service Mark protection. DOE reserves the right to require the Contractor to cancel registration or cease the use of any such mark upon written notice. The Laboratory name, including nicknames, and associated logos are owned by the Department of Energy and shall be protected by DOE Patent Counsel. In furtherance of the technology transfer mission, should the Contractor want to assert trademark or service mark protection for any word, phrase, symbol, design, or combination thereof that includes or is associated with the Laboratory name, the Contractor must first notify the DOE Patent Counsel. All marks resulting from work at the Laboratory that are not owned by DOE, whether registered with the United States Patent and Trademark Office or not, are subject to paragraph (i) (Transfer to Successor Contractor) of this clause, below, unless an exception is allowed by the DOE Patent Counsel.

(b) *Definitions.*

- (1) *Contractor's Laboratory Director* means the individual who has supervision over all or substantially all of the Contractor's operations at the Laboratory.
- (2) *Intellectual Property* means patents, trademarks, copyrights, mask works, protected CRADA information, and other forms of comparable property rights protected by Federal Law and other foreign counterparts.
- (3) *Cooperative Research and Development Agreement (CRADA)* means any agreement entered into between the Contractor as operator of the Laboratory, and one or more parties including at least one non-Federal party under which the Government, through its laboratory, provides personnel, services, facilities, equipment, intellectual property, or other

resources with or without reimbursement (but not funds to non-Federal parties) and the non-Federal parties provide funds, personnel, services, facilities, equipment, intellectual property, or other resources toward the conduct of specified research or development efforts which are consistent with the missions of the Laboratory; except that such term does not include a procurement contract, grant, or cooperative agreement as those terms are used in sections 6303, 6304, and 6305 of Title 31 of the United States Code.

- (4) *Joint Work Statement (JWS)* means a proposal for a CRADA prepared by the Contractor, signed by the Contractor's Laboratory Director or designee which describes the following:
 - (i) Purpose;
 - (ii) Scope of Work which delineates the rights and responsibilities of the Government, the Contractor and Third Parties, one of which must be a non-Federal party;
 - (iii) Schedule for the work; and
 - (iv) Cost and resource contributions of the parties associated with the work and the schedule.
- (5) *Assignment* means any agreement by which the Contractor transfers ownership of Laboratory Intellectual Property, subject to the Government's retained rights.
- (6) *Laboratory Biological Materials* means biological materials capable of replication or reproduction, such as plasmids, deoxyribonucleic acid molecules, ribonucleic acid molecules, living organisms of any sort and their progeny, including viruses, prokaryote and eukaryote cell lines, transgenic plants and animals, and any derivatives or modifications thereof or products produced through their use or associated biological products, made under this contract by Laboratory employees or through the use of Laboratory research facilities.
- (7) *Laboratory Tangible Research Product* means tangible material results of research which (i) are provided to permit replication, reproduction, evaluation or confirmation of the research effort, or to evaluate its potential commercial utility; (ii) are not materials generally commercially available; and (iii) were made under this contract by Laboratory employees or through the use of Laboratory research facilities.
- (8) *Bailment* means any agreement in which the Contractor permits the commercial or non-commercial transfer of custody, access or use of

Laboratory Biological Materials or Laboratory Tangible Research Product for a specified purpose of technology transfer or research and development, including without limitation evaluation, and without transferring ownership to the bailee.

- (9) *Department of Energy (DOE)*, as used in this clause, includes the National Nuclear Security Administration (NNSA), unless otherwise identified or indicated.
- (10) *Patent Counsel* means the DOE or NNSA Patent counsel assisting the contracting activity. The Patent Counsel is the first and primary point of contact for activities described in this clause.

(c) *Allowable Costs.*

- (1) The Contractor shall establish and carry out its technology transfer efforts through appropriate organizational elements consistent with the requirements for an Office of Research and Technology Applications (ORTA) pursuant to paragraphs (b) and (c) of Section 11 of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710). The costs associated with the conduct of technology transfer through the ORTA including activities associated with obtaining, maintaining, licensing, and assigning Intellectual Property rights, increasing the potential for the transfer of technology, widespread notice of technology transfer opportunities, and early stage and precommercial technology demonstration to remove barriers that limit private sector interest and demonstrate potential commercial applications of any research and technologies arising from Laboratory activities, shall be deemed allowable provided that such costs meet the other requirements of the allowable costs provisions of this Contract.
- (2) The Contractor's participation in litigation to enforce or defend Intellectual Property claims incurred in its technology transfer efforts shall be as provided in the clause entitled "Insurance - Litigation and Claims" of this contract.

- (d) *Conflicts of Interest - Technology Transfer.* The Contractor shall have implementing procedures that seek to avoid employee and organizational conflicts of interest, or the appearance of conflicts of interest, in the conduct of its technology transfer activities. These procedures shall apply to other persons participating in Laboratory research or related technology transfer activities. Such implementing procedures shall be provided to the contracting officer for review and approval within sixty (60) days after execution of this contract. The contracting officer shall have thirty (30) days thereafter to approve or require specific changes to such procedures. Such implementing procedures shall include procedures to:

- (1) Require employees with a substantial role in negotiation, approval and performance of the CRADA in paragraph (n) to conform with standards of conduct and integrity in connection with the CRADA activity in accordance with the provisions of paragraph (n)(5) of this clause;
- (2) Review and approve employee activities so as to avoid conflicts of interest arising from commercial utilization activities relating to Contractor-developed Intellectual Property;
- (3) Conduct work performed using royalties so as to avoid interference with or adverse effects on ongoing DOE projects and programs;
- (4) Conduct activities relating to commercial utilization of Contractor-developed Intellectual Property so as to avoid interference with or adverse effects on user facility or SPP activities of the Contractor;
- (5) Conduct DOE-funded projects and programs so as to avoid the appearance of conflicts of interest or actual conflicts of interest with non-Government funded work;
- (6) Notify the contracting officer with respect to any new work to be performed or proposed to be performed under the Contract for DOE or other Federal agencies where the new work or proposal involves Intellectual Property in which the Contractor has obtained or intends to request or elect title;
- (7) Except as provided elsewhere in this Contract, obtain the approval of the contracting officer for any licensing of or assignment of title to Intellectual Property rights by the Contractor to any business or corporate affiliate of the Contractor;
- (8) Obtain the approval of the contracting officer prior to any assignment, exclusive licensing, or option for exclusive licensing, of Intellectual Property to any individual who has been a Laboratory employee within the previous two years or to the company in which the individual is a principal; and
- (9) Notify non-Federal sponsors of SPP activities, of any relevant Intellectual Property interest of the Contractor prior to execution of SPPs.
- (10) Notify the Contracting Officer and the funding party or program prior to evaluating a proposal by a third party or a DOE program, when the subject matter of the proposal involves an elected or waived subject invention under this contract or one in which the Contractor intends to elect to retain title under this contract.

- (e) *Fairness of Opportunity.* In conducting its technology transfer activities, the Contractor shall prepare procedures and take all reasonable measures to ensure widespread notice of availability of technologies suited for transfer and opportunities for exclusive licensing and joint research arrangements. The requirement to widely disseminate the availability of technology transfer opportunities does not apply to a specific application originated outside of the Laboratory and by entities other than the Contractor.
- (f) *U.S. Industrial Competitiveness* - for licensing and assignments of intellectual property.
 - (1) In the interest of enhancing U.S. Industrial Competitiveness, the Contractor shall, in its licensing and assignments of Intellectual Property, give preference in such a manner as to enhance the accrual of economic and technological benefits to the U.S. domestic economy. The Contractor shall consider the following factors in all of its licensing and assignment decisions involving Laboratory intellectual property where the Laboratory obtains rights during the course of the Contractor's operation of the Laboratory under this contract:
 - (i) whether any resulting design and development will be performed in the United States and whether resulting products, embodying parts, including components thereof, will be substantially manufactured in the United States; or
 - (ii)
 - (A) whether the proposed licensee or assignee has a business unit located in the United States and whether significant economic and technical benefits will flow to the United States as a result of the license or assignment agreement; and
 - (B) in licensing any entity subject to the control of a foreign company or government, whether such foreign government permits United States agencies, organizations or other persons to enter into cooperative research and development agreements and licensing agreements, and has policies to protect United States Intellectual Property rights; and
 - (C) If the proposed licensee, assignee, or parent of either type of entity is subject to the control of a foreign company or government, the Contractor, with the assistance of the Contracting Officer, in considering the factors set forth in paragraph (f)(1)(ii)(B) of this clause, may rely upon the following information—

- (1) U.S. Trade Representative inventory of Foreign Trade Barriers;
 - (2) U.S. Trade Representative Special 301 Report; and
 - (3) Such other relevant information available to the Contracting Officer; and
- (D) The Contractor shall review the U.S. Trade Representative Web site at: <http://www.ustr.gov> for the most current versions of these reports and other relevant information. The Contractor is encouraged to utilize other available resources, as necessary, to allow for a complete and informed decision.
- (2) If the Contractor determines that neither of the conditions in paragraphs (f)(1)(i) or (ii) of this clause are likely to be fulfilled, the Contractor, prior to entering into such an agreement, must obtain the approval of the contracting officer. The contracting officer shall act on any such requests for approval within thirty (30) days.
- (3) The Contractor agrees to be bound by the provisions of 35 U.S.C. 204 (Preference for United States industry).
- (g) *Indemnity - Product Liability.* In entering into written technology transfer agreements, including but not limited to, research and development agreements, licenses, assignments and CRADAs, the Contractor agrees to include in such agreements a requirement that the U.S. Government and the Contractor, except for any negligent acts or omissions of the Contractor, be indemnified for all damages, costs, and expenses, including attorneys' fees, arising from personal injury or property damage occurring as a result of the making, using or selling of a product, process or service by or on behalf of the Participant, its assignees or licensees which was derived from the work performed under the agreement. Except for CRADA and SPP where the guidance is already provided elsewhere, the Contractor shall identify and obtain the approval of the contracting officer for any proposed exceptions to this requirement such as where State or local law expressly prohibit the Participant from providing indemnification or where the research results will be placed in the public domain.
- (h) *Disposition of Income.*
 - (1) Royalties or other income earned or retained by the Contractor as a result of performance of authorized technology transfer activities herein shall be used by the Contractor for scientific research, development, technology transfer, and education at the Laboratory, consistent with the research and development mission and objectives of the Laboratory and subject to

Section 12(b)(5) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(b)(5)) and Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.) as amended through the effective date of this contract award or modification. If the net amounts of such royalties and income received from patent licensing after payment of patenting costs, licensing costs, payments to inventors and other expenses incidental to the administration of Subject Inventions during any fiscal year exceed 5 percent of the Laboratory's budget for that fiscal year, 15 percent of such excess amounts shall be paid to the Treasury of the United States, and the remaining amount of such excess shall be used by the Contractor for the purposes as described above in this paragraph. Any inventions arising out of such scientific research and development activities shall be deemed to be Subject Inventions under the Contract.

- (2) The Contractor shall include as a part of its annual Laboratory Institutional Plan or other such annual document a plan setting out those uses to which royalties and other income received as a result of performance of authorized technology transfer activities herein will be applied at the Laboratory, and at the end of the year, provide a separate accounting for how the funds were actually used. Under no circumstances shall these royalties and income be used for an illegal augmentation of funds furnished by the U.S. Government.
 - (3) The Contractor shall establish subject to the approval of the contracting officer a policy for making awards or sharing of royalties with Contractor employees, other coinventors and coauthors, including Federal employee coinventors when deemed appropriate by the contracting officer. The Contractor shall notify the Contracting Officer of any changes to that policy, and such changes, shall be subject to the approval of the Contracting Officer.
- (i) *Transfer to Successor Contractor.* In the event of termination or upon the expiration of this Contract, any unexpended balance of income received for use at the Laboratory shall be transferred, at the contracting officer's request, to a successor contractor, or in the absence of a successor contractor, to such other entity as designated by the contracting officer. The Contractor shall transfer title, as one or several packages if necessary, to the extent the Contractor retains title, in all patents and patent applications, licenses, accounts containing royalty revenues from such license agreements, including equity positions in third party entities, and other Intellectual Property rights which arose at the Laboratory, to the successor contractor or to the Government as directed by the contracting officer.

(j) *Technology Transfer Affecting the National Security.*

- (1) The Contractor shall notify and obtain the approval of the contracting officer, prior to entering into any technology transfer arrangement, when such technology or any part of such technology is classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act (42 U.S.C. 2168), as amended, or is subject to export control for nonproliferation and other nuclear-related national security purposes. Such notification shall include sufficient information to enable DOE to determine the extent that commercialization of such technology would enhance or diminish security interests of the United States, or diminish communications within DOE's nuclear weapon production complex. DOE shall use its best efforts to complete its determination within sixty (60) days of the Contractor's notification, and provision of any supporting information, and DOE shall promptly notify the Contractor as to whether the technology is transferable.
- (2) The Contractor shall include in all of its technology transfer agreements with third parties, including, but not limited to, CRADAs, licensing agreements and assignments, notice to such third parties that the export of goods and/or Technical Data from the United States may require some form of export control license or other authority from the U.S. Government and that failure to obtain such export control license may result in criminal liability under U.S. laws.
- (3) For other than fundamental research as defined in National Security Decision Directive 189, the Contractor is responsible to conduct internal export control reviews and assure that technology is transferred in accordance with applicable law.

- (k) *Records.* The Contractor shall maintain records of its technology transfer activities in a manner and to the extent satisfactory to the DOE and specifically including, but not limited to, the licensing agreements, assignments and the records required to implement the requirements of paragraphs (e), (f), and (h) of this clause and shall provide reports to the contracting officer to enable DOE to maintain the reporting requirements of Section 12(c)(6) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(6)). Such reports shall be made annually in a format to be agreed upon between the Contractor and DOE and in such a format which will serve to adequately inform DOE of the Contractor's technology transfer activities while protecting any data not subject to disclosure under the Rights in Technical Data clause and paragraph (n) of this clause. Such records shall be made available in accordance with the clauses of this Contract pertaining to inspection, audit and examination of records.

- (l) *Reports to Congress.* To facilitate DOE's reporting to Congress, the Contractor is required to submit annually to DOE a technology transfer plan for conducting its technology transfer function for the upcoming year, including plans for securing Intellectual Property rights in Laboratory innovations with commercial promise and plans for managing such innovations so as to benefit the competitiveness of United States industry. This plan may be included in the Annual Laboratory Plan and provided to the contracting officer on or before October 1st of each year.
- (m) *Oversight and Appraisal.* The Contractor is responsible for developing and implementing effective internal controls for all technology transfer activities consistent with the audit and record requirements of this Contract. Laboratory Contractor performance in implementing the technology transfer mission and the effectiveness of the Contractor's procedures will be evaluated by the contracting officer as part of the annual appraisal process, with input from the cognizant Secretarial Officer or program office.
- (n) *Technology Transfer Through Cooperative Research and Development Agreements.* Upon approval of the contracting officer and as provided in a DOE approved Joint Work Statement (JWS), the Laboratory Director, or designee, may enter into CRADAs on behalf of the DOE subject to the requirements set forth in this paragraph.
 - (1) *Review and Approval of CRADAs.*
 - (i) Except as otherwise directed in writing by the contracting officer, each JWS shall be submitted to the contracting officer for approval. The Contractor's Laboratory Director or designee shall provide a program mission impact statement and shall include an impact statement regarding related Intellectual Property rights known by the Contractor to be owned by the Government to assist the contracting officer in the approval determination.
 - (ii) The Contractor shall also include (specific to the proposed CRADA), a statement of compliance with the Fairness of Opportunity requirements of paragraph (e) of this clause.
 - (iii) Within thirty (30) days after submission of a JWS or proposed CRADA, the contracting officer shall approve, disapprove or request modification to the JWS or CRADA. The contracting officer shall provide a written explanation to the Contractor's Laboratory Director or designee of any disapproval or requirement for modification of a JWS or proposed CRADA.
 - (iv) Except as otherwise directed in writing by the contracting officer, the Contractor shall not enter into, or begin work under, a CRADA until approval of the CRADA has been granted by the contracting

officer. The Contractor may submit its proposed CRADA to the contracting officer at the time of submitting its proposed JWS or any time thereafter.

(2) *Selection of Participants.* The Contractor's Laboratory Director or designee in deciding what CRADA to enter into shall:

- (i) Give special consideration to small business firms, and consortia involving small business firms;
- (ii) Give preference to business units located in the United States which agree that products or processes embodying Intellectual Property will be substantially manufactured or practiced in the United States and, in the case of any industrial organization or other person subject to the control of a foreign company or government, take into consideration whether or not such foreign government permits United States agencies, organizations, or other persons to enter into cooperative research and development agreements and licensing agreements. The Contractor, in considering these factors, may rely upon the following information
 - (A) U.S. Trade Representative inventory of Foreign Trade Barriers;
 - (B) U.S. Trade Representative Special 301 Report; and
 - (C) Such other relevant information available to the Contracting Officer. The Contractor shall review the U.S. Trade Representative Web site at: <http://www.ustr.gov> for the most current versions of these reports and other relevant information. The Contractor is encouraged to utilize other available resources, as necessary, to allow for a complete and informed decision.
- (iii) Provide Fairness of Opportunity in accordance with the requirements of paragraph (e) of this clause; and
- (iv) Give consideration to the Conflicts of Interest requirements of paragraph (d) of this clause.

(3) *Withholding of Data.*

- (i) Data that is first produced as a result of research and development activities conducted under a CRADA and that would be a trade secret or commercial or financial data that would be privileged or confidential, if such data had been obtained from a non-Federal

third party, may be protected from disclosure under the Freedom of Information Act as provided in the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(7)) for a period as agreed in the CRADA of up to five (5) years from the time the data is first produced. The DOE shall cooperate with the Contractor in protecting such data.

- (ii) Unless otherwise expressly approved by the contracting officer in advance for a specific CRADA, the Contractor agrees, at the request of the contracting officer, to transmit such data to other DOE facilities for use by DOE or its Contractors by or on behalf of the Government. When data protected pursuant to paragraph (n)(3)(i) of this clause is so transferred, the Contractor shall clearly mark the data with a legend setting out the restrictions against private use and further dissemination, along with the expiration date of such restrictions. A final report, upon completion of a CRADA, shall be provided to DOE's Office of Scientific and Technical Information; reports marked as Protected CRADA Information will not be released to the public for a period up to five years, in accordance with the terms of the CRADA.
 - (iii) In addition to its authority to license Intellectual Property, the Contractor may enter into licensing agreements with third parties for data developed by the Contractor under a CRADA subject to other provisions of this Contract. However, the Contractor shall neither use the protection against dissemination nor the licensing of data as an alternative to the submittal of invention disclosures which include data protected pursuant to paragraph (n)(3)(i) of this clause.
- (4) *Strategic Partnership Projects and User Facility Programs.* (i) SPP and User Facility Agreements (UFAs) are not CRADAs and will be available for use by the Contractor in addition to CRADAs for achieving utilization of employee expertise and unique facilities for maximizing technology transfer. The Contractor agrees to inform prospective CRADA participants, which are intending to substantially pay full cost recovery for the effort under a proposed CRADA, of the availability of alternative forms of agreements, i.e., SPP and UFA, and of the Class Patent Waiver provisions associated therewith. (ii) Where the Contractor believes that the transfer of technology to the U.S. domestic economy will benefit from, or other equity considerations dictate, an arrangement other than the Class Waiver of patent rights to the sponsor in SPP and UFAs, a request may be made to the contracting officer for an exception to the Class Waivers. (iii) Rights to inventions made under agreements other than funding agreements with third parties shall be governed by the appropriate provisions incorporated, with DOE approval, in such agreements, and the

provisions in such agreements take precedence over any disposition of rights contained in this Contract. Disposition of rights under any such agreement shall be in accordance with any DOE class waiver (including SPP and User Class Waivers) or individually negotiated waiver which applies to the agreement.

(5) *Conflicts of interest.*

- (i) Except as provided in paragraph (n)(5)(iii) of this clause, the Contractor shall assure that no employee of the Contractor shall have a substantial role (including an advisory role) in the negotiation, approval or performance of a CRADA, if, to such employee's knowledge:
 - (A) Such employee, or the spouse, child, parent, sibling, or partner of such employee, or an organization (other than the Contractor) in which such employee serves as an officer, director, trustee, partner, or employee -
 - (1) Holds financial interest in any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA;
 - (2) Receives a gift or gratuity from any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA;
or
 - (B) A financial interest in any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA, is held by any person or organization with whom such employee is negotiating or has any arrangement concerning prospective employment.
- (ii) The Contractor shall require that each employee of the Contractor who has a substantial role (including an advisory role) in the negotiation, approval or performance of a CRADA certify through the Contractor to the contracting officer that the circumstances described in paragraph (n)(5)(i) of this clause do not apply to that employee.
- (iii) The requirements of paragraphs (n)(5)(i) and (n)(5)(ii) of this clause shall not apply in a case where the contracting officer is advised by the Contractor in advance of the participation of an employee described in those paragraphs in the negotiation, approval or performance of a CRADA of the nature of and extent of any

financial interest described in paragraph (n)(5)(i) of this clause, and the contracting officer determines that such financial interest is not so substantial as to be considered likely to affect the integrity of the Contractor employee's participation in the process of negotiating, approving or performing the CRADA.

- (o) *Technology Transfer in Other Cost-Sharing Agreements.* In conducting research and development activities in cost-shared agreements not covered by paragraph (n) of this clause, the Contractor, with prior written permission of the contracting officer, may provide for the withholding of data produced thereunder in accordance with the applicable provisions of paragraph (n)(3) of this clause.
- (p) *Technology Partnership Ombudsman.*
 - (1) The Contractor agrees to establish a position to be known as "Technology Partnership Ombudsman," to help resolve complaints from outside organizations regarding the policies and actions of the contractor with respect to technology partnerships (including CRADAs), patents owned by the contractor for inventions made at the laboratory, and technology licensing.
 - (2) The Ombudsman shall be a senior official of the Contactor's laboratory staff, who is not involved in day-to-day technology partnerships, patents or technology licensing, or, if appointed from outside the laboratory or facility, shall function as such senior official.
 - (3) The duties of the Technology Partnership Ombudsman shall include: (i) Serving as the focal point for assisting the public and industry in resolving complaints and disputes with the laboratory or facility regarding technology partnerships, patents, and technology licensing; (ii) Promoting the use of collaborative alternative dispute resolution techniques such as mediation to facilitate the speedy and low cost resolution of complaints and disputes, when appropriate; and (iii) Submitting a quarterly report, in a format provided by DOE, to the Secretary of Energy, the Administrator for Nuclear Security, the Director of the DOE Office of Dispute Resolution, and the Contracting Officer concerning the number and nature of complaints and disputes raised, along with the Ombudsman's assessment of their resolution, consistent with the protection of confidential and sensitive information.

I.139 - DEAR 970.5227-4 AUTHORIZATION AND CONSENT (AUG 2002) DEVIATION (PREV. I.93)

- (a) The Government authorizes and consents to all use and manufacture of any invention described in and covered by a United States patent in the performance of this contract or any subcontract at any tier.
- (b) If the Contractor is sued for copyright infringement or anticipates the filing of such a lawsuit, the Contractor may request authorization and consent to copy a copyrighted work from the contracting officer. Programmatic necessity is a major consideration for DOE in determining whether to grant such request.
- (c)
 - (1) The Contractor agrees to include, and require inclusion of, the Authorization and Consent clause at 52.227-1, without Alternate 1, but suitably modified to identify the parties, in all subcontracts expected to exceed simplified acquisition threshold at any tier for supplies or services, including construction, architect-engineer services, and materials, supplies, models, samples, and design or testing services.
 - (2) The Contractor agrees to include, and require inclusion of, paragraph (a) of this Authorization and Consent clause, suitably modified to identify the parties, in all subcontracts at any tier for research and development activities expected to exceed simplified acquisition threshold.
 - (3) Omission of an authorization and consent clause from any subcontract, including those valued less than simplified acquisition threshold does not affect this authorization and consent.

I.140 - DEAR 970.5227-5 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (DEC 2000) [SC ALTERNATE APR 2018] (PREV. I.94)

- (a) The Contractor shall report to the Contracting Officer promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this contract of which the Contractor has knowledge.
- (b) If any person files a claim or suit against the Government on account of any alleged patent or copyright infringement arising out of the performance of this contract or out of the use of any supplies furnished or work or services performed hereunder, the Contractor shall furnish to the Government, when requested by the Contracting Officer, all evidence and information in possession of the Contractor pertaining to such suit or claim. Except where the Contractor has agreed to indemnify the Government, the Contractor shall furnish such evidence and information at the expense of the Government.

- (c) The Contractor agrees to include, and require inclusion of, this clause suitably modified to identify the parties, in all subcontracts at any tier expected to exceed the simplified acquisition threshold.

I.141 - DEAR 970.5227-6 PATENT INDEMNITY – SUBCONTRACTS (DEC 2000)
(PREV. I.95)

Except as otherwise authorized by the Contracting Officer, the Contractor shall obtain indemnification of the Government and its officers, agents, and employees against liability, including costs, for infringement of any United States patent (except a patent issued upon an application that is now or may hereafter be withheld from issue pursuant to a secrecy order by the Government) from Contractor's subcontractors for any contract work subcontracted in accordance with FAR 48 CFR 52.227-3.

I.142 - DEAR 970.5227-8 REFUND OF ROYALTIES (AUG 2002) (PREV. I.96)

- (a) During performance of this Contract, if any royalties are proposed to be charged to the Government as costs under this Contract, the Contractor agrees to submit for approval of the Contracting Officer, prior to the execution of any license, the following information relating to each separate item of royalty:
 - (1) Name and address of licensor;
 - (2) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable;
 - (3) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable;
 - (4) Percentage or dollar rate of royalty per unit;
 - (5) Unit price of contract item;
 - (6) Number of units;
 - (7) Total dollar amount of royalties; and
 - (8) A copy of the proposed license agreement.
- (b) If specifically requested by the Contracting Officer, the Contractor shall furnish a copy of any license agreement entered into prior to the effective date of this clause and an identification of applicable claims of specific patents or other basis upon which royalties are payable.

- (c) The term “royalties” as used in this clause refers to any costs or charges in the nature of royalties, license fees, patent or license amortization costs, or the like, for the use of or for rights in patents and patent applications that are used in the performance of this contract or any subcontract hereunder.
- (d) The Contractor shall furnish to the Contracting Officer, annually upon request, a statement of royalties paid or required to be paid in connection with performing this Contract and subcontracts hereunder.
- (e) For royalty payments under licenses entered into after the effective date of this Contract, costs incurred for royalties proposed under this paragraph shall be allowable only to the extent that such royalties are approved by the Contracting Officer. If the Contracting Officer determines that existing or proposed royalty payments are inappropriate, any payments subsequent to such determination shall be allowable only to the extent approved by the Contracting Officer.
- (f) Regardless of prior DOE approval of any individual payments or royalties, DOE may contest at any time the enforceability, validity, scope of, or title to a patent for which Contractor makes a royalty or other payment.
- (g) If at any time within 3 years after final payment under this contract, the Contractor for any reason is relieved in whole or in part from the payment of any royalties to which this clause applies, the Contractor shall promptly notify the Contracting Officer of that fact and shall promptly reimburse the Government for any refunds received or royalties paid after having received notice of such relief.
- (h) The Contractor agrees to include, and require inclusion of, this clause, including this paragraph (h), suitably modified to identify the parties in any subcontract at any tier in which the amount of royalties reported during negotiation of the subcontract exceeds \$250.

I.143 - DEAR 970.5227-10 PATENT RIGHTS – MANAGEMENT AND OPERATING CONTRACTS, NONPROFIT ORGANIZATION OR SMALL BUSINESS FIRM CONTRACTOR (AUG 2002) [SC ALTERNATE APR 2018] (PREV. I.97)

- (a) *Definitions.*
 - (1) *DOE licensing regulations* means the Department of Energy patent licensing regulations at 10 CFR Part 781.
 - (2) *Exceptional circumstance* subject invention means any subject invention in a technical field or related to a task determined by the Department of Energy to be subject to an exceptional circumstance under 35 U.S.C. 202(a)(ii) and in accordance with 37 CFR Part 401.3(e).

- (3) *Invention* means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321 et seq.).
 - (4) *Made* when used in relation to any invention means the conception or first actual reduction to practice of such invention.
 - (5) *Nonprofit organization* means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.
 - (6) *Patent Counsel* means the Department of Energy (DOE) Patent Counsel assisting the DOE contracting activity.
 - (7) *Practical application* means to manufacture, in the case of a composition or product; to practice, in the case of a process or method; or to operate, in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.
 - (8) *Small business firm* means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, are used.
 - (9) *Subject Invention* means any invention of the contractor conceived or first actually reduced to practice in the performance of work under this contract, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, (7 U.S.C. 2401(d)) shall also occur during the period of contract performance.
- (b) *Allocation of Principal Rights.*
- (1) *Retention of title by the Contractor.* Except for exceptional circumstance subject inventions, the contractor may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor retains title, the Federal government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to

practice or have practiced for or on behalf of the United States the subject invention throughout the world.

- (2) *Treaties and international agreements.* Any rights acquired by the Contractor in subject inventions are subject to any disposition of right, title, or interest in or to subject inventions provided for in treaties or international agreements identified at DOE's Office of International Affairs (International Commitments--IEC) (<http://energy.gov/ia/iec-documents>), or other rights which are necessary for the Government to meet its obligations to foreign governments, their nationals and international organizations under such treaties or international agreements with respect to subject inventions.
- (3) *Exceptional circumstance subject inventions.* Except to the extent that rights are retained by the Contractor in a determination of exceptional circumstances or granted to a contractor through a determination of greater rights in accordance with subparagraph (b)(4) of this clause, the Contractor does not have a right to retain title to any exceptional circumstance subject inventions and agrees to assign to the Government the entire right, title, and interest, throughout the world, in and to any exceptional circumstance subject inventions.
 - (i) Inventions within or relating to the following fields of technology are exceptional circumstance subject inventions:
 - (A) Uranium enrichment technology;
 - (B) Storage and disposal of civilian high-level nuclear waste and spent fuel technology; and
 - (C) National security technologies classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act (42 U.S.C. 2168).
 - (ii) Inventions made under any agreement, contract or subcontract related to the following are exceptional circumstance subject inventions:
 - (A) DOE Steel Initiative and Metals Initiative;
 - (B) U.S. Advanced Battery Consortium; and
 - (C) Any funding agreement which is funded in part by the Electric Power Research Institute (EPRI) or the Gas Research Institute (GRI); and,

- (D) Solid State Energy Conversion Alliance (SECA) if Contractor is a participant in the "Core Technology Program."
- (iii) DOE reserves the right to unilaterally amend this contract to modify, by deletion or insertion, technical fields, tasks, or other classifications for the purpose of determining DOE exceptional circumstance subject inventions.
- (4) *Contractor request for greater rights in exceptional circumstance subject inventions.* The Contractor may request rights greater than allowed by the exceptional circumstance determination in an exceptional circumstance subject invention by submitting such a request in writing to Patent Counsel at the time the exceptional circumstance subject invention is disclosed to DOE or within eight (8) months after conception or first actual reduction to practice of the exceptional circumstance subject invention, whichever occurs first, unless a longer period is authorized in writing by the Patent Counsel for good cause shown in writing by the Contractor. DOE may, in its discretion, grant or refuse to grant such a request by the Contractor.
- (5) *Contractor employee-inventor rights.* If the Contractor does not elect to retain title to a subject invention or does not request greater rights in an exceptional circumstance subject invention, a Contractor employee-inventor, after consultation with the Contractor and with written authorization from the Contractor in accordance with 10 CFR 784.9(b)(4), may request greater rights, including title, in the subject invention or the exceptional circumstance invention from DOE, and DOE may, in its discretion, grant or refuse to grant such a request by the Contractor employee-inventor.
- (6) *Government assignment of rights in Government employees' subject inventions.* If a Government employee is a joint inventor of a subject invention or of an exceptional circumstance subject invention to which the Contractor has rights, the Government may assign or refuse to assign to the Contractor any rights in the subject invention or exceptional circumstance subject invention acquired by the Government from the Government employee, in accordance with 48 CFR 27.304-1(d). The rights assigned to the Contractor are subject to any provision of this clause that is applicable to subject inventions in which the Contractor retains title, including reservation by the Government of a nonexclusive, nontransferable, irrevocable, paid-up license, except that the Contractor shall file its initial patent application claiming the subject invention or exceptional circumstance invention within one (1) year after the assignment of such rights. The Contractor shall share royalties collected for the manufacture, use or sale of the subject invention with the Government employee.

(c) *Subject invention disclosure, election of title and filing of patent application by contractor.*

- (1) *Subject invention disclosure.* The contractor will disclose each subject invention to the Patent Counsel within two months after the inventor discloses it in writing to contractor personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s) and all sources of funding by B&R code for the invention. It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted or made available for publication at the time of disclosure. The disclosure shall identify if the invention falls within an exceptional circumstance field. DOE will make a determination and advise the Contractor within 30 days of receipt of an invention disclosure as to whether the invention is an exceptional circumstance subject invention. In addition, after disclosure to the Patent Counsel, the Contractor will notify the agency of any accepted manuscript describing the invention for publication or on sale or public use planned by the contractor that is 60 days prior to the end of the statutory period. The Contractor shall notify Patent Counsel prior to any release or publication of information concerning any nonelectable subject invention such as an exceptional circumstance subject invention or any subject invention related to a treaty or international agreement.
- (2) *Election by the Contractor.* Except as provided in paragraph (b)(2) of this clause, the Contractor will elect in writing whether or not to retain title to any such invention by notifying the Federal agency within two years of disclosure to the Federal agency. However, in any case where publication, on sale or public use has initiated the one year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the agency to a date that is no more than 60 days prior to the end of the statutory period.
- (3) *Filing of patent applications by the Contractor.* The Contractor will file its initial patent application on a subject invention to which it elects to retain title within one year after election of title or, if earlier, or prior to the end of any 1-year statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor will file patent applications in additional countries or international patent offices within either ten months of the corresponding initial patent application or six months from the date permission is granted

by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

- (4) *Contractor's reporting under this subparagraph.* Reporting of Subject Invention disclosures, election of title, filing of patent applications and associated activities under subparagraphs (c)(1), (2) and (3) is reported to the agency and Patent Counsel using the NIH's iEdison portal unless the Contractor receives a waiver from Patent Counsel.
 - (5) *Contractor's request for an extension of time.* Requests for an extension of the time for disclosure, election, and filing under subparagraphs (c)(1), (2) and (3) may, at the discretion of Patent Counsel, be granted.
 - (6) *Publication review.* During the course of the work under this contract, the Contractor may desire to release or publish information regarding scientific or technical developments conceived or first actually reduced to practice in the course of or under this contract. Contractor's Invention Identification Procedures under paragraph (f)(5) should address timely disclosure of inventions, consider whether review is required, and if so, facilitate such review by Contractor personnel responsible for patent matters prior to disclosure of publications in order that public disclosure of such information will not adversely affect the patent interest of DOE or the Contractor.
- (d) *Conditions when the Government may obtain title.* The Contractor will convey to the DOE, upon written request, title to any subject invention.
- (1) If the Contractor fails to disclose or elect title to the subject invention within the times specified in paragraph (c) of this clause, or elects not to retain title; provided, that DOE may only request title within sixty (60) days after learning of the failure of the Contractor to disclose or to elect within the specified times.
 - (2) In those countries in which the Contractor fails to file a patent application within the times specified in subparagraph (c) of this clause; provided, however, that if the Contractor has filed a patent application in a country after the times specified in subparagraph (c) above, but prior to its receipt of the written request of the DOE, the Contractor shall continue to retain title in that country.
 - (3) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in a reexamination or opposition proceeding on, a patent on a subject invention.
 - (4) If the Contractor requests that DOE acquire title or rights from the Contractor in a subject invention to which the Contractor had initially

retained title or rights, or in an exceptional circumstance subject invention to which the Contractor was granted greater rights, DOE may acquire such title or rights from the Contractor, or DOE may decide against acquiring such title or rights from the Contractor, at DOE's sole discretion.

- (e) *Minimum rights of the Contractor and protection of the Contractor's right to file.*
- (1) *Request for a Contractor license.* The Contractor may request the right to reserve a revocable, nonexclusive, royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the Contractor fails to disclose the invention within the times specified in paragraph (c) of this clause. DOE may grant or refuse to grant such a request by the Contractor. When DOE approves such reservation, the Contractor's license will normally extend to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a party and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of DOE, except when transferred to the successor of that part of the contractor's business to which the invention pertains.
 - (2) *Revocation or modification of a Contractor license.* The Contractor's domestic license may be revoked or modified by DOE to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404 and DOE licensing regulations at 10 CFR Part 781. This license will not be revoked in the field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the subject invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of DOE to the extent the Contractor, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application of the subject invention in that foreign country.
 - (3) *Notice of revocation or modification of a Contractor license.* Before revocation or modification of the license, DOE will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed thirty days (or such other time as may be authorized by DOE for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable regulations in 37 CFR part 404 and DOE licensing regulations at 10 CFR part 781 concerning the licensing of Government owned inventions, any decision concerning the revocation or modification of the license.

(f) Contractor *action to protect the Government's interest.*

- (1) *Execution of delivery of title or license instruments.* The Contractor agrees to execute or to have executed, and promptly deliver to the Patent Counsel all instruments necessary to accomplish the following actions:
 - (i) Establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and
 - (ii) Convey title to DOE when requested under subparagraphs (b) or paragraph (d) of this clause and to enable the Government to obtain patent protection throughout the world in that subject invention.
- (2) *Contractor employee agreements.* The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to Contractor personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor, each subject invention made under this contract in order that the Contractor can comply with the disclosure provisions of paragraph (c) of this clause, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) of this clause. The Contractor shall instruct such employees, through employee agreements or other suitable educational programs, on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.
- (3) *Notification of discontinuation of patent protection.* The contractor will notify the Patent Counsel of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of the response period required by the relevant patent office.
- (4) *Notification of Government rights.* The contractor agrees to include, within the specification of any United States patent applications and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with government support under (identify the contract) awarded by (identify the Federal agency). The government has certain rights in the invention."
- (5) *Invention identification procedures.* The Contractor shall establish and maintain active and effective procedures to ensure that subject inventions are promptly identified and timely disclosed and shall submit a written

description of such procedures to the Contracting Officer so that the Contracting Officer may evaluate and determine their effectiveness.

- (6) *Invention filing documentation.* If the Contractor files a domestic or foreign patent application claiming a subject invention, the Contractor shall promptly submit to Patent Counsel, upon request, the following information and documents:
 - (i) The filing date, serial number, title, and a copy of the patent application (including an English-language version if filed in a language other than English);
 - (ii) An executed and approved instrument fully confirmatory of all Government rights in the subject invention; and
 - (iii) The patent number, issue date, and a copy of any issued patent claiming the subject invention.
- (7) *Duplication and disclosure of documents.* The Government may duplicate and disclose subject invention disclosures and all other reports and papers furnished or required to be furnished pursuant to this clause; provided, however, that any such duplication or disclosure by the Government is subject to the confidentiality provision at 35 U.S.C. 205 and 37 CFR Part 40.
- (g) *Subcontracts.*
 - (1) *Subcontractor subject inventions.* The Contractor shall not obtain rights in the subcontractor's subject inventions as part of the consideration for awarding a subcontract.
 - (2) *Inclusion of patent rights clause - non-profit organization or small business firm subcontractors.* Unless otherwise authorized or directed by the Contracting Officer, the Contractor shall include the patent rights clause at 48 CFR 952.227-11, suitably modified to identify the parties, in all subcontracts, at any tier, for experimental, developmental, demonstration or research work to be performed by a small business firm or domestic nonprofit organization, except subcontracts which are subject to exceptional circumstances in accordance with 35 U.S.C. 202 and subparagraph (b)(2) of this clause. The subcontractor retains all rights provided for the contractor in the patent rights clause at 48 CFR 952.227-11.
 - (3) *Inclusion of patent rights clause - subcontractors other than non-profit organizations and small business firms.* Except for the subcontracts described in subparagraph (g)(2) of this clause, the Contractor shall include the patent rights clause at 48 CFR 952.227-13, suitably modified

to identify the parties, in any contract for experimental, developmental, demonstration or research work. For subcontracts subject to exceptional circumstances, the contractor must consult with DOE patent counsel with respect to the appropriate patent clause.

- (4) *DOE and subcontractor contract.* With respect to subcontracts at any tier, DOE, the subcontractor, and the Contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and DOE with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause.
- (5) *Subcontractor refusal to accept terms of patent clause.* If a prospective subcontractor refuses to accept the terms of a patent rights clause, the Contractor shall promptly submit a written notice to the Contracting Officer stating the subcontractor's reasons for such a refusal, including any relevant information for expediting disposition of the matter, and the Contractor shall not proceed with the subcontract without the written authorization of the Contracting Officer.
- (6) *Notification of award of subcontract.* Upon the award of any subcontract at any tier containing a patent rights clause, the Contractor shall promptly notify the Contracting Officer in writing and identify the subcontractor, the applicable patent rights clause, the work to be performed under the subcontract, and the dates of award and estimated completion. Upon request of the Contracting Officer, the Contractor shall furnish a copy of a subcontract.
- (7) *Identification of subcontractor subject inventions.* If the Contractor in the performance of this contract becomes aware of a subject invention made under a subcontract, the Contractor shall promptly notify Patent Counsel and identify the subject invention.
- (h) *Reporting on utilization of subject inventions.*

The Contractor agrees to submit to DOE the annual data call for the Department of Commerce report that includes the number of patent applications filed, the number of patents issued, gross royalties received by the Contractor, licensing activity and such other data and information as DOE may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by DOE in connection with any march-in proceeding undertaken by DOE in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), DOE agrees it will not disclose such information to persons outside the Government without permission of the Contractor.

(i) *Preference for United States Industry.*

Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any product embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by DOE upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

(j) *March-in Rights.*

The Contractor agrees that, with respect to any subject invention in which it has acquired title, DOE has the right in accordance with the procedures in 37 CFR 401.6 and any DOE supplemental regulations to require the Contractor, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and, if the Contractor, assignee or exclusive licensee refuses such a request, DOE has the right to grant such a license itself if DOE determines that --

- (1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;
- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees;
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the Contractor, assignee, or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived, or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.

(k) *Special provisions for contracts with nonprofit organizations.*

If the Contractor is a nonprofit organization, it agrees that -

- (1) *DOE approval of assignment of rights.* Rights to a subject invention in the United States may not be assigned by the Contractor without the approval

of DOE, except where such assignment is made to an organization which has as one of its primary functions the management of inventions; provided, that such assignee will be subject to the same provisions of this clause as the Contractor.

- (2) *Small business firm licensees.* It will make efforts that are reasonable under the circumstances to attract licensees of subject inventions that are small business firms, and that it will give a preference to a small business firm when licensing a subject invention if the Contractor determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the Contractor is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the Contractor. However, the Contractor agrees that the Secretary of Commerce may review the Contractor's licensing program and decisions regarding small business firm applicants, and the Contractor will negotiate changes to its licensing policies, procedures, or practices with the Secretary of Commerce when that Secretary's review discloses that the Contractor could take reasonable steps to more effectively implement the requirements of this subparagraph (k)(2).
- (3) *Contractor licensing of subject inventions.* To the extent that it provides the most effective technology transfer, licensing of subject inventions shall be administered by Contractor employees on location at the facility.

(l) *Communications.*

The Contractor shall direct any notification, disclosure or request provided for in this clause to the iEdison invention portal or as otherwise directed by the Patent Counsel.

(m) *Reports.*

- (1) *Interim reports.* Upon DOE's request, the Contractor shall submit to DOE, no more frequently than annually, a list of subject inventions disclosed to DOE during a specified period, or a statement that no subject inventions were made during the specified period; and a list of subcontracts containing a patent clause and awarded by the Contractor during a specified period, or a statement that no such subcontracts were awarded during the specified period.
- (2) *Final reports.* Upon DOE's request, the Contractor shall submit to DOE, prior to closeout of the contract, a list of all subject inventions disclosed during the performance period of the contract, or a statement that no subject inventions were made during the contract performance period; and

a list of all subcontracts containing a patent clause and awarded by the Contractor during the contract performance period under which a subject invention was reported, or a statement that no such subject inventions under subcontracts were reported during the contract performance period.

(n) *Examination of Records Relating to Subject Inventions.*

- (1) *Contractor compliance.* Until the expiration of three (3) years after final payment under this contract, the Contracting Officer or any authorized representative may examine any books (including laboratory notebooks), records, documents, and other supporting data of the Contractor, which the Contracting Officer or authorized representative deems reasonably pertinent to the discovery or identification of subject inventions, including exceptional circumstance subject inventions, or to determine Contractor compliance with any requirement of this clause.
- (2) *Unreported inventions.* If the Contracting Officer is aware of an invention that is not disclosed by the Contractor to DOE, and the Contracting Officer believes the unreported invention may be a subject invention, including exceptional circumstance subject inventions, DOE may require the Contractor to submit to DOE a disclosure of the invention for a determination of ownership rights.
- (3) *Confidentiality.* Any examination of records under this paragraph is subject to appropriate conditions to protect the confidentiality of the information involved.
- (4) *Power of inspection.* With respect to a subject invention for which the Contractor has responsibility for patent prosecution, the Contractor shall furnish the Government, upon request by DOE, an irrevocable power to inspect and make copies of a prosecution file for any patent application claiming the subject invention.

(o) *Facilities License.*

In addition to the rights of the parties with respect to inventions or discoveries conceived or first actually reduced to practice in the course of or under this contract, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up license in and to any inventions or discoveries regardless of when conceived or actually reduced to practice or acquired by the Contractor at any time through completion of this contract and which are incorporated or embodied in the construction of the facility or which are utilized in the operation of the facility or which cover articles, materials, or product manufactured at the facility (1) to practice or have practiced by or for the Government at the facility, and (2) to transfer such license with the transfer of that facility. Notwithstanding the acceptance or exercise by the Government of

these rights, the Government may contest at any time the enforceability, validity or scope of, or title to, any rights or patents herein licensed.

(p) *Atomic Energy.*

- (1) *Pecuniary awards.* No claim for pecuniary award of compensation under the provisions of the Atomic Energy Act of 1954, as amended, may be asserted with respect to any invention or discovery made or conceived in the course of or under this contract.
- (2) *Patent agreements.* Except as otherwise authorized in writing by the Contracting Officer, the Contractor shall obtain patent agreements to effectuate the provisions of subparagraph (p)(1) of this clause from all persons who perform any part of the work under this contract, except nontechnical personnel, such as clerical employees and manual laborers.

(q) *Patent Functions.*

Upon the written request of the Contracting Officer or Patent Counsel, the Contractor agrees to make reasonable efforts to support DOE in accomplishing patent-related functions for work arising out of the contract, including, but not limited to, the prosecution of patent applications, and the determination of questions of novelty, patentability, and inventorship.

(r) *Educational Awards Subject to 35 U.S.C. 212.*

The Contractor shall notify the Contracting Officer prior to the placement of any person subject to 35 U.S.C. 212 in an area of technology or task (1) related to exceptional circumstance technology or (2) which is subject to treaties or international agreements as set forth in paragraph (b)(3) of this clause or agreements other than funding agreements. The Contracting Officer may disapprove of any such placement.

(s) *Annual Appraisal by Patent Counsel.*

Patent Counsel may conduct an annual appraisal to evaluate the Contractor's effectiveness in identifying and protecting subject inventions in accordance with DOE policy.

I.144 - DEAR 970.5228-1 INSURANCE—LITIGATION AND CLAIMS (JUL 2013)
(PREV. I.98)

- (a) The contractor must comply with 10 CFR part 719, Contractor Legal Management Requirements, if applicable.

- (b) (1) Except as provided in paragraph (b)(2) of this clause, the contractor shall procure and maintain such bonds and insurance as required by law or approved in writing by the Contracting Officer.
 - (2) The contractor may, with the approval of the Contracting Officer, maintain a self-insurance program in accordance with FAR 28.308; provided that, with respect to workers' compensation, the contractor is qualified pursuant to statutory authority.
 - (3) All bonds and insurance required by this clause shall be in a form and amount and for those periods as the Contracting Officer may require or approve and with sureties and insurers approved by the Contracting Officer.
- (c) The contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other bonds and insurance that are maintained by the contractor in connection with the performance of this contract and for which the contractor seeks reimbursement. If an insurance cost (whether a premium for commercial insurance or related to self-insurance) includes a portion covering costs made unallowable elsewhere in the contract, and the share of the cost for coverage for the unallowable cost is determinable, the portion of the cost that is otherwise an allowable cost under this contract is reimbursable to the extent determined by the Contracting Officer.
- (d) Except as provided in paragraph (f) of this clause, or specifically disallowed elsewhere in this contract, the contractor shall be reimbursed—
 - (1) For that portion of the reasonable cost of bonds and insurance allocable to this contract required in accordance with contract terms or approved under this clause, and
 - (2) For liabilities (and reasonable expenses incidental to such liabilities, including litigation costs) to third persons not compensated by insurance without regard to the clause of this contract entitled "Obligation of Funds."
- (e) The Government's liability under paragraph (d) of this clause is subject to the availability of appropriated funds. Nothing in this contract shall be construed as implying that the Congress will, at a later date, appropriate funds sufficient to meet deficiencies.
- (f) (1) Notwithstanding any other provision of this contract, the contractor shall not be reimbursed for liabilities to third parties, including contractor employees, and directly associated costs which may include but are not limited to litigation costs, counsel fees, judgments and settlements—

- (i) Which are otherwise unallowable by law or the provisions of this contract, including the cost reimbursement limitations contained in 48 CFR part 31, as supplemented by 48 CFR 970.31;
 - (ii) For which the contractor has failed to insure or to maintain insurance as required by law, this contract, or by the written direction of the Contracting Officer; or
 - (iii) Which were caused by contractor managerial personnel's—
 - (A) Willful misconduct;
 - (B) Lack of good faith; or
 - (C) Failure to exercise prudent business judgment, which means failure to act in the same manner as a prudent person in the conduct of competitive business; or, in the case of a non-profit educational institution, failure to act in the manner that a prudent person would under the circumstances prevailing at the time the decision to incur the cost is made.
 - (2) The term “contractor's managerial personnel” is defined in the Property clause in this contract.
- (g) (1) All litigation costs, including counsel fees, judgments and settlements shall be segregated and accounted for by the contractor separately. If the Contracting Officer provisionally disallows such costs, then the contractor may not use funds advanced by DOE under the contract to finance the litigation.
- (2) Punitive damages are not allowable unless the act or failure to act which gave rise to the liability resulted from compliance with specific terms and conditions of the contract or written instructions from the Contracting Officer.
- (3) The portion of the cost of insurance obtained by the contractor that is allocable to coverage of liabilities referred to in paragraph (f) of this clause is not allowable.
- (h) The contractor may at its own expense and not as an allowable cost procure for its own protection insurance to compensate the contractor for any unallowable or non-reimbursable costs incurred in connection with contract performance.

I.145 - DEAR 970.5229-1 STATE AND LOCAL TAXES (DEC 2000) (PREV. I.99)

- (a) The Contractor agrees to notify the Contracting Officer of any State or local tax, fee, or charge levied or purported to be levied on or collected from the Contractor with respect to the contract work, any transaction thereunder, or property in the custody or control of the Contractor and constituting an allowable item of cost if due and payable, but which the Contractor has reason to believe, or the Contracting Officer has advised the Contractor, is or may be inapplicable or invalid; and the Contractor further agrees to refrain from paying any such tax, fee, or charge unless authorized in writing by the Contracting Officer. Any State or local tax, fee, or charge paid with the approval of the Contracting Officer or on the basis of advice from the Contracting Officer that such tax, fee, or charge is applicable and valid, and which would otherwise be an allowable item of cost, shall not be disallowed as an item of cost by reason of any subsequent ruling or determination that such tax, fee, or charge was in fact inapplicable or invalid.
- (b) The Contractor agrees to take such action as may be required or approved by the Contracting Officer to cause any State or local tax, fee, or charge which would be an allowable cost to be paid under protest; and to take such action as may be required or approved by the Contracting Officer to seek recovery of any payments made, including assignment to the Government or its designee of all rights to an abatement or refund thereof, and granting permission for the Government to join with the Contractor in any proceedings for the recovery thereof or to sue for recovery in the name of the Contractor. If the Contracting Officer directs the Contractor to institute litigation to enjoin the collection of or to recover payment of any such tax, fee, or charge referred to above, or if a claim or suit is filed against the Contractor for a tax, fee, or charge it has refrained from paying in accordance with this clause, the procedures and requirements of the clause entitled "Insurance-Litigation and Claims" shall apply and the costs and expenses incurred by the Contractor shall be allowable items of costs, as provided in this contract, together with the amount of any judgment rendered against the Contractor.
- (c) The Government shall hold the Contractor harmless from penalties and interest incurred through compliance with this clause. All recoveries or credits in respect of the foregoing taxes, fees, and charges (including interest) shall inure to and be for the sole benefit of the Government.

I.146 - DEAR 970.5231-4 PREEXISTING CONDITIONS (DEC 2000) (ALTERNATE I) (DEC 2000) (PREV. I.100)

- (a) Any liability, obligation, loss, damage, claim (including without limitation, a claim involving strict or absolute liability), action, suit, civil fine or penalty, cost, expense or disbursement, which may be incurred or imposed, or asserted by any party and arising out of any condition, act or failure to act which occurred before

February 1, 2005, in conjunction with the management and operation of Ernest Orlando Lawrence Berkeley National Laboratory, shall be deemed incurred under Contract No. DE-AC03-78SF00098.

- (b) The obligations of the Department of Energy under this clause are subject to the availability of appropriated funds.

I.147 - DEAR 970.5232-1 REDUCTION OR SUSPENSION OF ADVANCE, PARTIAL, OR PROGRESS PAYMENTS (DEC 2000) (PREV. I.101)

- (a) The Contracting Officer may reduce or suspend further advance, partial, or progress payments to the Contractor upon a written determination by the Senior Procurement Executive that substantial evidence exists that the Contractor's request for advance, partial, or progress payment is based on fraud.
- (b) The Contractor shall be afforded a reasonable opportunity to respond in writing.

I.148 - DEAR 970.5232-2 PAYMENTS AND ADVANCES (DEC 2000) (ALTERNATES II AND III) (DEC 2000) (PREV. I.102)

- (a) *Payment of Total available fee: Base Fee and Performance Fee.* The base fee amount, if any, is payable in equal monthly installments. Total available fee amount earned is payable following the Government's Determination of Total Available Fee Amount Earned in accordance with the clause of this contract entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." Base fee amount and total available fee amount earned payments shall be made by direct payment or withdrawn from funds advanced or available under this contract, as determined by the Contracting Officer. The Contracting Officer may offset against any such fee payment the amounts owed to the Government by the Contractor, including any amounts owed for disallowed costs under this contract. No base fee amount or total available fee amount earned payment may be withdrawn against the payments cleared financing arrangement without the prior written approval of the contracting officer.
- (b) *Payments on Account of Allowable Costs.* The Contracting Officer and the Contractor shall agree as to the extent to which payment for allowable costs or payments for other items specifically approved in writing by the Contracting Officer (for example, negotiated fixed amounts) shall be made from advances of Government funds. When pension contributions are paid by the Contractor to the retirement fund less frequently than quarterly, accrued costs therefore shall be excluded from costs for payment purposes until such costs are paid. If pension contribution are paid on a quarterly or more frequent basis, accrual therefore may be included in costs for payment purposes, provided that they are paid to the fund within 30 days after the close of the period covered. If payments are not

made to the fund within such 30-day period, pension contribution costs shall be excluded from cost for payment purposes until payment has been made.

- (c) *Special financial institution account--use.* All advances of Government funds shall be withdrawn pursuant to a payments cleared financing arrangement prescribed by DOE in favor of the financial institution or, at the option of the Government, shall be made by direct payment or other payment mechanism to the Contractor, and shall be deposited only in the special financial institution account referred to in the Special Financial Institution Account Agreement, which is incorporated into this contract as Appendix C. No part of the funds in the special financial institution account shall be commingled with any funds of the Contractor or used for a purpose other than that of making payments for costs allowable and, if applicable, fees earned under this contract, negotiated fixed amounts, or payments for other items specifically approved in writing by the Contracting Officer. If the Contracting Officer determines that the balance of such special financial institution account exceeds the Contractor's current needs, the Contractor shall promptly make such disposition of the excess as the Contracting Officer may direct.
- (d) *Title to funds advanced.* Title to the unexpended balance of any funds advanced and of any special financial institution account established pursuant to this clause shall remain in the Government and be superior to any claim or lien of the financial institution of deposit or others. It is understood that an advance to the Contractor hereunder is not a loan to the Contractor, and will not require the payment of interest by the Contractor, and that the Contractor acquires no right, title or interest in or to such advance other than the right to make expenditures therefrom, as provided in this clause.
- (e) *Financial settlement.* The Government shall promptly pay to the Contractor the unpaid balance of allowable costs (or other items specifically approved in writing by the Contracting Officer) and fee upon termination of the work, expiration of the term of the contract, or completion of the work and its acceptance by the Government after:
 - (1) Compliance by the Contractor with DOE's patent clearance requirements, and
 - (2) The furnishing by the Contractor of:
 - (i) An assignment of the Contractor's rights to any refunds, rebates, allowances, accounts receivable, collections accruing to the Contractor in connection with the work under this contract, or other credits applicable to allowable costs under the contract;
 - (ii) A closing financial statement;

- (iii) The accounting for Government-owned property required by the clause entitled "Property"; and
- (iv) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract subject only to the following exceptions:
 - (A) Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible to exact statement by the Contractor;
 - (B) Claims, together with reasonable expenses incidental thereto, based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided that such claims are not known to the Contractor on the date of the execution of the release; and provided further that the Contractor gives notice of such claims in writing to the Contracting Officer promptly, but not more than one (1) year after the Contractor's right of action first accrues. In addition, the Contractor shall provide prompt notice to the Contracting Officer of all potential claims under this clause, whether in litigation or not (see Contract Clause 48 CFR 970.5228-1, Insurance--Litigation and Claims);
 - (C) Claims for reimbursement of costs (other than expenses of the Contractor by reason of any indemnification of the Government against patent liability), including reasonable expenses incidental thereto, incurred by the Contractor under the provisions of this contract relating to patents; and
 - (D) Claims recognizable under the clause entitled, Nuclear Hazards Indemnity Agreement.
- (3) In arriving at the amount due the Contractor under this clause, there shall be deducted,
 - (i) Any claim which the Government may have against the Contractor in connection with this contract, and
 - (ii) Deductions due under the terms of this contract, and not otherwise recovered by or credited to the Government. The unliquidated balance of the special financial institution account may be applied to the amount due and any balance shall be returned to the Government forthwith.

- (f) *Claims.* Claims for credit against funds advanced for payment shall be accompanied by such supporting documents and justification as the Contracting Officer shall prescribe.
- (g) *Discounts.* The Contractor shall take and afford the Government the advantage of all known and available cash and trade discounts, rebates, allowances, credits, salvage, and commissions unless the Contracting Officer finds that action is not in the best interest of the Government.
- (h) *Collections.* All collections accruing to the Contractor in connection with the work under this contract, except for the Contractor's fee and royalties or other income accruing to the Contractor from technology transfer activities in accordance with this contract, shall be Government property and shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract and, to the extent consistent with those requirements, shall be deposited in the special financial institution account or otherwise made available for payment of allowable costs under this contract, unless otherwise directed by the Contracting Officer.
- (i) *Direct payment of charges.* The Government reserves the right, upon ten days written notice from the Contracting Officer to the Contractor, to pay directly to the persons concerned, all amounts due which otherwise would be allowable under this contract. Any payment so made shall discharge the Government of all liability to the Contractor therefore.
- (j) *Determining allowable costs.* The Contracting Officer shall determine allowable costs in accordance with the Federal Acquisition Regulation subpart 31.2 and the Department of Energy Acquisition Regulation subpart 48 CFR 970.31 in effect on the date of this contract and other provisions of this contract.
- (k) *Review and approval of costs incurred.* The Contractor shall prepare and submit annually as of September 30, a "Statement of Costs Incurred and Claimed" (Cost Statement) for the total of net expenditures accrued (i.e., net costs incurred) for the period covered by the Cost Statement. The Contractor shall certify the Cost Statement subject to the penalty provisions for unallowable costs as stated in sections 306(b) and (i) of the Federal Property and Administrative Services Act of 1949 (41 U.S.C. 256), as amended. DOE, after audit and appropriate adjustment, will approve such Cost Statement. This approval by DOE will constitute an acknowledgment by DOE that the net costs incurred are allowable under the contract and that they have been recorded in the accounts maintained by the Contractor in accordance with DOE accounting policies, but will not relieve the Contractor of responsibility for DOE's assets in its care, for appropriate subsequent adjustments, or for errors later becoming known to DOE.

I.149 - DEAR 970.5232-3 ACCOUNTS, RECORDS AND INSPECTION (DEC 2010)
(PREV. I.103)

- (a) *Accounts.* The Contractor shall maintain a separate and distinct set of accounts, records, documents, and other evidence showing and supporting: all allowable costs incurred; collections accruing to the Contractor in connection with the work under this contract, other applicable credits, negotiated fixed amounts, and fee accruals under this contract; and the receipt, use, and disposition of all Government property coming into the possession of the Contractor under this contract. The system of accounts employed by the Contractor shall be satisfactory to DOE and in accordance with generally accepted accounting principles consistently applied.
- (b) *Inspection and audit of accounts and records.* All books of account and records relating to this contract shall be subject to inspection and audit by DOE or its designees in accordance with the provisions of Clause 970.5204-3, Access to and ownership of records, at all reasonable times, before and during the period of retention provided for in paragraph (d) of this clause, and the Contractor shall afford DOE proper facilities for such inspection and audit.
- (c) *Audit of subcontractors' records.* The Contractor also agrees, with respect to any subcontracts (including fixed-price or unit-price subcontracts or purchase orders) where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor of any tier, to either conduct an audit of the subcontractor's costs or arrange for such an audit to be performed by the cognizant government audit agency through the Contracting Officer.
- (d) *Disposition of records.* Except as agreed upon by the Government and the Contractor, all financial and cost reports, books of account and supporting documents, system files, data bases, and other data evidencing costs allowable, collections accruing to the Contractor in connection with the work under this contract, other applicable credits, and fee accruals under this contract, shall be the property of the Government, and shall be delivered to the Government or otherwise disposed of by the Contractor either as the Contracting Officer may from time to time direct during the progress of the work or, in any event, as the Contracting Officer shall direct upon completion or termination of this contract and final audit of accounts hereunder. Except as otherwise provided in this contract, including provisions of Clause 970.5204-3, Access to and Ownership of Records, all other records in the possession of the Contractor relating to this contract shall be preserved by the Contractor for a period of three years after final payment under this contract or otherwise disposed of in such manner as may be agreed upon by the Government and the Contractor.

- (e) *Reports.* The Contractor shall furnish such progress reports and schedules, financial and cost reports, and other reports concerning the work under this contract as the Contracting Officer may from time to time require.
- (f) *Inspections.* The DOE shall have the right to inspect the work and activities of the Contractor under this contract at such time and in such manner as it shall deem appropriate.
- (g) *Subcontracts.* The Contractor further agrees to require the inclusion of provisions similar to those in paragraphs (a) through (g) and paragraph (h) of this clause in all subcontracts (including fixed-price or unit-price subcontracts or purchase orders) of any tier entered into hereunder where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor.
- (h) *Comptroller General.*
 - (1) The Comptroller General of the United States, or an authorized representative, shall have access to and the right to examine any of the contractor's or subcontractor's directly pertinent records involving transactions related to this contract or a subcontract hereunder and to interview any employee regarding such transactions.
 - (2) This paragraph may not be construed to require the Contractor or subcontractor to create or maintain any record that the Contractor or subcontractor does not maintain in the ordinary course of business or pursuant to a provision of law.
 - (3) Nothing in this contract shall be deemed to preclude an audit by the Government Accountability Office of any transaction under this contract.
- (i) *Internal audit.* The Contractor agrees to design and maintain an internal audit plan and an internal audit organization.
 - (1) Upon contract award, the exercise of any contract option, or the extension of the contract, the Contractor must submit to the Contracting Officer for approval an Internal Audit Implementation Design to include the overall strategy for internal audits. The Audit Implementation Design must describe—
 - (i) The internal audit organization's placement within the contractor's organization and its reporting requirements;
 - (ii) The audit organization's size and the experience and educational standards of its staff;

- (iii) The audit organization's relationship to the corporate entities of the Contractor;
 - (iv) The standards to be used in conducting the internal audits;
 - (v) The overall internal audit strategy of this contract, considering particularly the method of auditing costs incurred in the performance of the contract;
 - (vi) The intended use of external audit resources;
 - (vii) The plan for audit of subcontracts, both pre-award and post-award; and
 - (viii) The schedule for peer review of internal audits by other contractor internal audit organizations, or other independent third party audit entities approved by the DOE Contracting Officer.
- (2) By each January 31 of the contract performance period, the Contractor must submit an annual audit report, providing a summary of the audit activities undertaken during the previous fiscal year. That report shall reflect the results of the internal audits during the previous fiscal year and the actions to be taken to resolve weaknesses identified in the contractor's system of business, financial, or management controls.
- (3) By each June 30 of the contract performance period, the Contractor must submit to the Contracting Officer an annual audit plan for the activities to be undertaken by the internal audit organization during the next fiscal year that is designed to test the costs incurred and contractor management systems described in the internal audit design.
- (4) The Contracting Officer may require revisions to documents submitted under paragraphs (i)(1), (i)(2), and (i)(3) of this clause, including the design plan for the internal audits, the annual report, and the annual internal audits.
- (j) *Remedies.* If at any time during contract performance, the Contracting Officer determines that unallowable costs were claimed by the Contractor to the extent of making the contractor's management controls suspect, or the contractor's management systems that validate costs incurred and claimed suspect, the Contracting Officer may, in his or her sole discretion, require the Contractor to cease using the special financial institution account in whole or with regard to specified accounts, requiring reimbursable costs to be claimed by periodic vouchering. In addition, the Contracting Officer, where he or she deems it appropriate, may: Impose a penalty under 48 CFR 970.5242-1, Penalties for

Unallowable Costs; require a refund; reduce the contractor's otherwise earned fee; and take such other action as authorized in law, regulation, or this contract.

I.150 - DEAR 970.5232-4 OBLIGATION OF FUNDS (DEC 2000) (PREV. I.104)

- (a) *Obligation of funds.* The amount presently obligated by the Government with respect to this contract is \$12,429,682,965.97. Such amount may be increased unilaterally by DOE by written notice to the Contractor and may be increased or decreased by written agreement of the parties (whether or not by formal modification of this contract). Estimated collections from others for work and services to be performed under this contract are not included in the amount presently obligated. Such collections, to the extent actually received by the Contractor, shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract. Nothing in this paragraph is to be construed as authorizing the Contractor to exceed limitations stated in financial plans established by DOE and furnished to the Contractor from time to time under this contract.
- (b) *Limitation on payment by the Government.* Except as otherwise provided in this contract and except for costs which may be incurred by the Contractor pursuant to the Termination clause of this contract or costs of claims allowable under the contract occurring after completion or termination and not released by the Contractor at the time of financial settlement of the contract in accordance with the clause entitled "Payments and Advances," payment by the Government under this contract on account of allowable costs shall not, in the aggregate, exceed the amount obligated with respect to this contract, less the Contractor's fee and any negotiated fixed amount. Unless expressly negated in this contract, payment on account of those costs excepted in the preceding sentence which are in excess of the amount obligated with respect to this contract shall be subject to the availability of:
 - (1) Collections accruing to the Contractor in connection with the work under this contract and processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract, and
 - (2) Other funds which DOE may legally use for such purpose, provided DOE will use its best efforts to obtain the appropriation of funds for this purpose if not otherwise available.
- (c) *Notices--Contractor excused from further performance.* The Contractor shall notify DOE in writing whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), plus the Contractor's best estimate of collections to be received and available during the

45 day period hereinafter specified, is in the Contractor's best judgment sufficient to continue contract operations at the programmed rate for only 45 days and to cover the Contractor's unpaid fee and any negotiated fixed amounts, and outstanding encumbrances and liabilities on account of costs allowable under the contract at the end of such period. Whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), less the amount of the Contractor's fee then earned but not paid and any negotiated fixed amounts, is in the Contractor's best judgment sufficient only to liquidate outstanding encumbrances and liabilities on account of costs allowable under this contract, the Contractor shall immediately notify DOE and shall make no further encumbrances or expenditures (except to liquidate existing encumbrances and liabilities), and, unless the parties otherwise agree, the Contractor shall be excused from further performance (except such performance as may become necessary in connection with termination by the Government) and the performance of all work hereunder will be deemed to have been terminated for the convenience of the Government in accordance with the provisions of the Termination clause of this contract.

- (d) *Financial plans; cost and encumbrance limitations.* In addition to the limitations provided for elsewhere in this contract, DOE may, through financial plans, such as Approved Funding Programs, or other directives issued to the Contractor, establish controls on the costs to be incurred and encumbrances to be made in the performance of the contract work. Such plans and directives may be amended or supplemented from time to time by DOE. The Contractor agrees –
 - (1) To comply with the specific limitations (ceilings) on costs and encumbrances set forth in such plans and directives;
 - (2) To comply with other requirements of such plans and directives; and
 - (3) To notify DOE promptly, in writing, whenever it has reason to believe that any limitation on costs and encumbrances will be exceeded or substantially underrun.
- (e) Government's right to terminate not affected. The giving of any notice under this clause shall not be construed to waive or impair any right of the Government to terminate the contract under the provisions of the Termination clause of this contract.

I.151 - DEAR 970.5232-5 LIABILITY WITH RESPECT TO COST ACCOUNTING STANDARDS (DEC 2000) (PREV. I.105)

- (a) The Contractor is not liable to the Government for increased costs or interest resulting from its failure to comply with the clauses of this contract entitled, "Cost Accounting Standards," and "Administration of Cost Accounting Standards," if its

failure to comply with the clauses is caused by the Contractor's compliance with published DOE financial management policies and procedures or other requirements established by the Department's Chief Financial Officer or Senior Procurement Executive.

- (b) The Contractor is not liable to the Government for increased costs or interest resulting from its subcontractors' failure to comply with the clauses at FAR 52.230-2, "Cost Accounting Standards," and FAR 52.230-6, "Administration of Cost Accounting Standards," if the Contractor includes in each covered subcontract a clause making the subcontractor liable to the Government for increased costs or interest resulting from the subcontractor's failure to comply with the clauses; and the Contractor seeks the subcontract price adjustment and cooperates with the Government in the Government's attempts to recover from the subcontractor.

I.152 - DEAR 970.5232-6 STRATEGIC PARTNERSHIP PROJECTS FUNDING AUTHORIZATION (April 23, 2015) (PREV. I.106)

Any uncollectible receivables resulting from the Contractor utilizing contractor corporate funding for reimbursable work shall be the responsibility of the Contractor, and the United States Government shall have no liability to the Contractor for the Contractor's uncollected receivables. The Contractor is permitted to provide advance payment utilizing contractor corporate funds for reimbursable work to be performed by the Contractor for a non-Federal entity in instances where advance payment from that entity is required under the Laws, regulations, and DOE directives clause of this contract and such advance cannot be obtained. The Contractor is also permitted to provide advance payment utilizing contractor corporate funds to continue reimbursable work to be performed by the Contractor for a Federal entity when the term or the funds on a Federal interagency agreement required under the Laws, regulations, and DOE directives clause of this contract have elapsed. The Contractor's utilization of contractor corporate funds does not relieve the Contractor of its responsibility to comply with all requirements for Strategic Partnership Projects applicable to this contract.

I.153 - DEAR 970.5232-7 FINANCIAL MANAGEMENT SYSTEM (DEC 2000) (PREV. I.107)

The Contractor shall maintain and administer a financial management system that is suitable to provide proper accounting in accordance with DOE requirements for assets, liabilities, collections accruing to the Contractor in connection with the work under this contract, expenditures, costs, and encumbrances; permits the preparation of accounts and accurate, reliable financial and statistical reports; and assures that accountability for the assets can be maintained. The Contractor shall submit to DOE for written approval an annual plan for new financial management systems and/or subsystems and major enhancements and/or upgrades to the currently existing financial systems and/or

subsystems. The Contractor shall notify DOE thirty (30) days in advance of any planned implementation of any substantial deviation from this plan and, as requested by the Contracting Officer, shall submit any such deviation to DOE for written approval before implementation.

I.154 - DEAR 970.5232-8 INTEGRATED ACCOUNTING (DEC 2000) (PREV. I.108)

Integrated accounting procedures are required for use under this contract. The Contractor's financial management system shall include an integrated accounting system that is linked to DOE's accounts through the use of reciprocal accounts and that has electronic capability to transmit monthly and year-end self-balancing trial balances to the Department's Primary Accounting System for reporting financial activity under this contract in accordance with requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract.

I.155 - DEAR 970.5235-1 FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTER SPONSORING AGREEMENT (DEC 2010) (PREV. I.109)

- (a) Pursuant to 48 CFR 35.017-1, this contract constitutes the sponsoring agreement between the Department of Energy (DOE) and the Contractor, which establishes the relationship for the operation of a Department of Energy sponsored Federally Funded Research and Development Center (FFRDC).
- (b) In the operation of this FFRDC, the Contractor may be provided access beyond that which is common to the normal contractual relationship, to Government and supplier data, including sensitive and proprietary data, and to Government employees and facilities needed to discharge its responsibilities efficiently and effectively. Because of this special relationship, it is essential that the FFRDC be operated in the public interest with objectivity and independence, be free from organizational conflicts of interest, and have full disclosure of its affairs to the Department of Energy.
- (c) Unless otherwise provided by the contract, the Contractor may accept work from a nonsponsor (as defined in 48 CFR 35.017) in accordance with the requirements and limitations of the clause 48 CFR 970.5217-1, Strategic Partnership Projects Program.
- (d) As an FFRDC, the Contractor shall not use its privileged information or access to government facilities to compete with the private sector. Specific guidance on restricted activities is contained in DOE Order 481.1C, Strategic Partnership Projects (Formerly Known as Work for Others (Non-Department of Energy Funded Work)), or successor version.

I.156 - DEAR 970.5236-1 GOVERNMENT FACILITY SUBCONTRACT APPROVAL
(DEC 2000) [SC ALTERNATE APR 2018] (PREV. I.110)

The Contractor shall procure, by subcontract, the construction of new facilities or the alteration or repair of Government-owned facilities at the site. All such subcontracts which meet the review thresholds established in Appendix G shall be subject to the written approval of the Contracting Officer.

I.157 - DEAR 970.5242-1 PENALTIES FOR UNALLOWABLE COSTS (AUG 2009)
(PREV. I.112)

- (a) Contractors which include unallowable cost in a submission for settlement for cost incurred, may be subject to penalties.
- (b) If, during the review of a submission for settlement of cost incurred, the Contracting Officer determines that the submission contains an expressly unallowable cost or a cost determined to be unallowable prior to the submission, the Contracting Officer shall assess a penalty.
- (c) Unallowable costs are either expressly unallowable or determined unallowable.
 - (1) An expressly unallowable cost is a particular item or type of cost which, under the express provisions of an applicable law, regulation, or this contract, is specifically named and stated to be unallowable.
 - (2) A cost determined unallowable is one which, for that Contractor—
 - (i) Was subject to a Contracting Officer's final decision and not appealed;
 - (ii) The Civilian Board of Contract Appeals or a court has previously ruled as unallowable; or
 - (iii) Was mutually agreed to be unallowable.
- (d) If the Contracting Officer determines that a cost submitted by the Contractor in its submission for settlement of cost incurred is--
 - (1) Expressly unallowable, then the Contracting Officer shall assess a penalty in an amount equal to the disallowed cost allocated to this contract plus interest on the paid portion of the disallowed cost. Interest shall be computed from the date of overpayment to the date of repayment using the interest rate specified by the Secretary of the Treasury pursuant to Pub. L. 92-41 (85 Stat. 97); or

- (2) Determined unallowable, then the Contracting Officer shall assess a penalty in an amount equal to two times the amount of the disallowed cost allocated to this contract.
- (e) The Contracting Officer may waive the penalty provisions when –
 - (1) The Contractor withdraws the submission before the formal initiation of an audit of the submission and submits a revised submission;
 - (2) The amount of the unallowable costs allocated to covered contracts is \$10,000 or less; or
 - (3) The Contractor demonstrates to the Contracting Officer's satisfaction that—
 - (i) It has established appropriate policies, personnel training, and an internal control and review system that provides assurances that unallowable costs subject to penalties are precluded from the Contractor's submission for settlement of costs; and
 - (ii) The unallowable costs subject to the penalty were inadvertently incorporated into the submission.

I.158 - DEAR 970.5243-1 CHANGES (DEC 2000) (PREV. I.113)

- (a) *Changes and adjustment of fee.* The Contracting Officer may at any time and without notice to the sureties, if any, issue written directions within the general scope of this contract requiring additional work or directing the omission of, or variation in, work covered by this contract. If any such direction results in a material change in the amount or character of the work described in the "Statement of Work," an equitable adjustment of the fee, if any, shall be made in accordance with the agreement of the parties and the contract shall be modified in writing accordingly. Any claim by the Contractor for an adjustment under this clause must be asserted in writing within 30 days from the date of receipt by the Contractor of the notification of change; provided, however, that the Contracting Officer, if it is determined that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under this contract. A failure to agree on an equitable adjustment under this clause shall be deemed to be a dispute within the meaning of the clause entitled "Disputes."
- (b) *Work to continue.* Nothing contained in this clause shall excuse the Contractor from proceeding with the prosecution of the work in accordance with the requirements of any direction hereunder.

I.159 - DEAR 970.5244-1 CONTRACTOR PURCHASING SYSTEM (AUG 2016) (PF 2013-64, PF 2015-17) [SC ALTERNATE SEP 2018] (PREV. I.114)

- (a) The Contractor shall develop, implement, and maintain formal policies, practices, and procedures to be used in the award of subcontracts consistent with this clause, with 48 CFR subpart 970.44. The Contractor's purchasing system and methods shall be fully documented, consistently applied, and acceptable to the Department of Energy (DOE) in accordance with 48 CFR 970.4401-1. The Contractor shall maintain file documentation which is appropriate to the value of the purchase and is adequate to establish the propriety of the transaction and the price paid. The Contractor's purchasing performance will be evaluated against such performance criteria and measures as may be set forth elsewhere in this contract. DOE reserves the right at any time to require that the Contractor submit for approval any or all subcontracted efforts or purchases under this contract. The Contractor shall not purchase any item or service, the purchase of which is expressly prohibited by the written direction of DOE, and shall use such special and directed sources as may be expressly required by the DOE Contracting Officer. DOE will conduct periodic appraisals of the Contractor's management of all facets of the purchasing function, including the Contractor's compliance with its approved system and methods. Such appraisals will be performed through the conduct of Contractor Purchasing System Reviews in accordance with 48 CFR subpart 44.3, or, when approved by the Contracting Officer, through the Contractor's participation in the conduct of the Balanced Scorecard performance measurement and performance management system. The Contractor's approved purchasing system and methods shall include the requirements set forth in paragraphs (f) through (y) of this clause.
- (b) *Acquisition of utility services.* Utility services shall be acquired in accordance with the requirements of 48 CFR subpart 970.41.
- (c) *Acquisition of real property.* Real property shall be acquired in accordance with 48 CFR subpart 917.74.
- (d) *Advance notice of proposed subcontract awards.* Advance notice shall be provided in accordance with 48 CFR 970.4401-3.
- (e) *Audit of subcontractors.*
 - (1) The Contractor shall provide for—
 - (i) Periodic post-award audit of cost-reimbursement subcontractors at all tiers; and
 - (ii) Audits, where necessary, to provide a valid basis for pre-award or cost or price analysis.

- (2) Responsibility for determining the costs allowable under each cost-reimbursement subcontract remains with the contractor or next higher-tier subcontractor. The Contractor shall provide, in appropriate cases, for the timely involvement of the Contractor and the DOE Contracting Officer in resolution of subcontract cost allowability.
 - (3) Where audits of subcontractors at any tier are required, arrangements may be made to have the cognizant Federal agency perform the audit of the subcontract, or the contractor may work with the cognizant Federal agency to employ external auditors to support mandatory subcontractor audits. These arrangements shall be made administratively between DOE and the other agency involved and shall provide for the cognizant Federal agency to audit in an appropriate manner in light of the magnitude and nature of the subcontract. In no case, however, shall these arrangements preclude determination by the DOE Contracting Officer of the allowability or unallowability of subcontractor costs claimed for reimbursement by the Contractor.
 - (4) Allowable costs for cost reimbursable subcontracts are to be determined in accordance with the cost principles of 48 CFR Part 31, appropriate for the type of organization to which the subcontract is to be awarded, as supplemented by 48 CFR part 931. Allowable costs in the purchase or transfer from contractor-affiliated sources shall be determined in accordance with 48 CFR 970.4402-3 and 48 CFR 31.205-26(e).
- (f) *Bonds and insurance.*
- (1) The Contractor shall require performance bonds in penal amounts as set forth in 48 CFR 28.102-2(a) for all fixed-priced and unit-priced construction subcontracts in excess of \$150,000. The Contractor shall consider the use of performance bonds in fixed-price non-construction subcontracts, where appropriate.
 - (2) For fixed-price, unit-priced and cost reimbursement construction subcontracts in excess of \$150,000, a payment bond shall be obtained on Standard Form 25A modified to name the Contractor as well as the United States of America as obligees. The penal amounts shall be determined in accordance with 48 CFR 28.102-2(b).
 - (3) For fixed-price, unit-priced and cost-reimbursement construction subcontracts greater than \$25,000, but not greater than \$150,000, the Contractor shall select two or more of the payment protections at 48 CFR 28.102-1(b), giving particular consideration to the inclusion of an irrevocable letter of credit as one of the selected alternatives.

- (4) A subcontractor may have more than one acceptable surety in both construction and other subcontracts, provided that in no case will the liability of any one surety exceed the maximum penal sum for which it is qualified for any one obligation. For subcontracts other than construction, a co-surety (two or more sureties together) may reinsure amounts in excess of their individual capacity, with each surety having the required underwriting capacity that appears on the list of acceptable corporate sureties.
- (g) *Buy American.* The Contractor shall comply with the provisions of the Buy American Act as reflected in 48 CFR 52.225-1 and 48 CFR 52.225-9. The Contractor shall forward determinations of non-availability of individual items to the DOE Contracting Officer for approval. Items in excess of \$500,000 require the prior concurrence of the Head of Contracting Activity. If, however, the Contractor has an approved purchasing system, the Head of the Contracting Activity may authorize the Contractor to make determinations of non-availability for individual items valued at \$500,000 or less.
- (h) *Construction and architect-engineer subcontracts.*
 - (1) Independent Estimates. A detailed, independent estimate of costs shall be prepared for all construction work expected to exceed the simplified acquisition threshold to be subcontracted.
 - (2) Specifications. Specifications for construction shall be prepared in accordance with the DOE publication entitled "General Design Criteria Manual."
 - (3) Prevention of conflict of interest.
 - (i) The Contractor shall not award a subcontract for construction to the architect-engineer firm or an affiliate that prepared the design. This prohibition does not preclude the award of a "turnkey" subcontract so long as the subcontractor assumes all liability for defects in design and construction and consequential damages.
 - (ii) The Contractor shall not award both a cost-reimbursement subcontract and a fixed-price subcontract for construction or architect-engineer services or any combination thereof to the same firm where those subcontracts will be performed at the same site.
 - (iii) The Contractor shall not employ the construction subcontractor or an affiliate to inspect the firm's work. The contractor shall assure that the working relationships of the construction subcontractor and the subcontractor inspecting its work and the authority of the inspector are clearly defined.

- (i) *Contractor-affiliated sources.* Equipment, materials, supplies, or services from a contractor-affiliated source shall be purchased or transferred in accordance with 48 CFR 970.4402-3.
- (j) *Contractor-subcontractor relationship.* The obligations of the Contractor under paragraph (a) of this clause, including the development of the purchasing system and methods, and purchases made pursuant thereto, shall not relieve the Contractor of any obligation under this contract (including, among other things, the obligation to properly supervise, administer, and coordinate the work of subcontractors). Subcontracts shall be in the name of the Contractor, and shall not bind or purport to bind the Government.
- (k) *Government Property.* The Contractor shall establish and maintain a property management system that complies with criteria in 48 CFR 970.5245-1, Property.
- (l) *Indemnification.* Except for Price-Anderson Nuclear Hazards Indemnity, no subcontractor may be indemnified except with the prior approval of the Senior Procurement Executive.
- (m) *Leasing of motor vehicles.* Contractors shall comply with 48 CFR subpart 8.11 and 48 CFR subpart 908.11.
- (n) [Reserved]
- (o) *Management, acquisition and use of information resources.* Requirements for automatic data processing resources and telecommunications facilities, services, and equipment, shall be reviewed and approved in accordance with applicable DOE Orders and regulations regarding information resources.
- (p) *Priorities, allocations and allotments.* Priorities, allocations and allotments shall be extended to appropriate subcontracts in accordance with the clause or clauses of this contract dealing with priorities and allocations.
- (q) *Purchase of special items.* Purchase of the following items shall be in accordance with the following provisions of 48 CFR subpart 8.5, 48 CFR subpart 908.71, Federal Management Regulation 41 CFR part 102, and the Federal Property Management Regulation 41 CFR chapter 101:
 - (1) Motor vehicles—48 CFR 908.7101
 - (2) Aircraft—48 CFR 908.7102
 - (3) Security Cabinets—48 CFR 908.7106
 - (4) Alcohol—48 CFR 908.7107

- (5) Helium—48 CFR subpart 8.5
- (6) Fuels and packaged petroleum products—48 CFR 908.7109
- (7) Coal—48 CFR 908.7110
- (8) Arms and Ammunition—48 CFR 908.7111
- (9) Heavy Water—48 CFR 908.7121(a)
- (10) Precious Metals—48 CFR 908.7121(b)
- (11) Lithium—48 CFR 908.7121(c)
- (12) Products and services of the blind and severely handicapped—41 CFR 101-26.701
- (13) Products made in Federal penal and correctional institutions—41 CFR 101-26.702
- (r) *Purchase versus lease determinations.* Contractors shall determine whether required equipment and property should be purchased or leased, and establish appropriate thresholds for application of lease versus purchase determinations. Such determinations shall be made—
 - (1) At time of original acquisition;
 - (2) When lease renewals are being considered; and
 - (3) At other times as circumstances warrant.
- (s) *Quality assurance.* Contractors shall provide no less protection for the Government in its subcontracts than is provided in the prime contract.
- (t) *Setoff of assigned subcontractor proceeds.* Where a subcontractor has been permitted to assign payments to a financial institution, the assignment shall treat any right of setoff in accordance with 48 CFR 932.803.
- (u) *Strategic and critical materials.* The Contractor may use strategic and critical materials in the National Defense Stockpile.
- (v) *Termination.* When subcontracts are terminated as a result of the termination of all or a portion of this contract, the Contractor shall settle with subcontractors in conformity with the policies and principles relating to settlement of prime contracts in 48 CFR subparts 49.1, 49.2 and 49.3. When subcontracts are terminated for reasons other than termination of this contract, the Contractor

shall settle such subcontracts in general conformity with the policies and principles in 48 CFR subparts 49.1, 49.2, 49.3 and 49.4. Each such termination shall be documented and consistent with the terms of this contract. Terminations which require approval by the Government shall be supported by accounting data and other information as may be directed by the Contracting Officer.

- (w) *Unclassified controlled nuclear information.* Subcontracts involving unclassified uncontrolled nuclear information shall be treated in accordance with 10 CFR part 1017.
- (x) *Subcontract flowdown requirements.* In addition to terms and conditions that are included in the prime contract which direct application of such terms and conditions in appropriate subcontracts, the Contractor shall include the following clauses in subcontracts, as applicable:
 - (1) Davis-Bacon clauses prescribed in 48 CFR 22.407.
 - (2) Foreign Travel clause prescribed in 48 CFR 952.247-70.
 - (3) Counterintelligence clause prescribed in 48 CFR 970.0404-4(a).
 - (4) Service Contract Act clauses prescribed in 48 CFR 22.1006.
 - (5) State and local taxes clause prescribed in 48 CFR 970.2904-1.
 - (6) Cost or pricing data clauses prescribed in 48 CFR 970.
 - (7) Nondisplacement of Qualified Workers clause prescribed in 48 CFR 22.1207.
 - (8) Service Contract Reporting clause prescribed in 48 CFR 4.1705.
 - (9) Minimum Wages under Executive Order 13658 clause prescribed in 48 CFR 22.1906.
- (y) *Legal services.* Contractor purchases of litigation and other legal services are subject to the requirements in 10 CFR part 719 and the requirements of this clause.

I.160 - DEAR 970.5245-1 PROPERTY (AUG 2016) ALTERNATE I (AUG 2016) (PREV. I.115)

- (a) *Furnishing of Government property.* The Government reserves the right to furnish any property or services required for the performance of the work under this contract.

- (b) *Title to property.* Except as otherwise provided by the Contracting Officer, title to all materials, equipment, supplies, and tangible personal property of every kind and description purchased by the Contractor, for the cost of which the Contractor is entitled to be reimbursed as a direct item of cost under this contract, shall pass directly from the vendor to the Government. The Government reserves the right to inspect, and to accept or reject, any item of such property. The Contractor shall make such disposition of rejected items as the Contracting Officer shall direct. Title to other property, the cost of which is reimbursable to the Contractor under this contract, shall pass to and vest in the Government upon (1) issuance for use of such property in the performance of this contract, or (2) commencement of processing or use of such property in the performance of this contract, or (3) reimbursement of the cost thereof by the Government, whichever first occurs. Property furnished by the Government and property purchased or furnished by the Contractor, title to which vests in the Government, under this paragraph are hereinafter referred to as Government property. Title to Government property shall not be affected by the incorporation of the property into or the attachment of it to any property not owned by the Government, nor shall such Government property or any part thereof, be or become a fixture or lose its identity as personality by reason of affixation to any realty.
- (c) *Identification.* To the extent directed by the Contracting Officer, the Contractor shall identify Government property coming into the Contractor's possession or custody, by marking and segregating in such a way, satisfactory to the Contracting Officer, as shall indicate its ownership by the Government.
- (d) *Disposition.* The Contractor shall make such disposition of Government property which has come into the possession or custody of the Contractor under this contract as the Contracting Officer may direct during the progress of the work or upon completion or termination of this contract. The Contractor may, upon such terms and conditions as the Contracting Officer may approve, sell, or exchange such property, or acquire such property at a price agreed upon by the Contracting Officer and the Contractor as the fair value thereof. The amount received by the Contractor as the result of any disposition, or the agreed fair value of any such property acquired by the Contractor, shall be applied in reduction of costs allowable under this contract or shall be otherwise credited to account to the Government, as the Contracting Officer may direct. Upon completion of the work or the termination of this contract, the Contractor shall render an accounting, as prescribed by the Contracting Officer, of all government property which had come into the possession or custody of the Contractor under this contract.
- (e) *Protection of government property—management of high-risk property and classified materials.*
 - (1) The Contractor shall take all reasonable precautions, and such other actions as may be directed by the Contracting Officer, or in the absence of

such direction, in accordance with sound business practice, to safeguard and protect government property in the Contractor's possession or custody.

- (2) In addition, the Contractor shall ensure that adequate safeguards are in place, and adhered to, for the handling, control and disposition of high-risk property and classified materials throughout the life cycle of the property and materials consistent with the policies, practices and procedures for property management contained in the Federal Property Management Regulations (41 CFR chapter 101), the Department of Energy (DOE) Property Management Regulations (41 CFR chapter 109), and other applicable Regulations.
- (3) High-risk property is property, the loss, destruction, damage to, or the unintended or premature transfer of which could pose risks to the public, the environment, or the national security interests of the United States. High-risk property includes proliferation sensitive, nuclear related dual use, export controlled, chemically or radioactively contaminated, hazardous, and specially designed and prepared property, including property on the militarily critical technologies list.

(f) *Risk of loss of Government property.*

- (1) (i) The Contractor shall not be liable for the loss or destruction of, or damage to, Government property unless such loss, destruction, or damage was caused by any of the following—
 - (A) Willful misconduct or lack of good faith on the part of the Contractor's managerial personnel;
 - (B) Failure of the Contractor's managerial personnel to take all reasonable steps to comply with any appropriate written direction of the Contracting Officer to safeguard such property under paragraph (e) of this clause; or
 - (C) Failure of contractor managerial personnel to establish, administer, or properly maintain an approved property management system in accordance with paragraph (i)(1) of this clause.
- (ii) If, after an initial review of the facts, the Contracting Officer informs the Contractor that there is reason to believe that the loss, destruction of, or damage to the government property results from conduct falling within one of the categories set forth above, the burden of proof shall be upon the Contractor to show that the Contractor should not be required to compensate the government for the loss, destruction, or damage.

- (2) In the event that the Contractor is determined liable for the loss, destruction or damage to Government property in accordance with (f)(1) of this clause, the Contractor's compensation to the Government shall be determined as follows:
 - (i) For damaged property, the compensation shall be the cost of repairing such damaged property, plus any costs incurred for temporary replacement of the damaged property. However, the value of repair costs shall not exceed the fair market value of the damaged property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
 - (ii) For destroyed or lost property, the compensation shall be the fair market value of such property at the time of such loss or destruction, plus any costs incurred for temporary replacement and costs associated with the disposition of destroyed property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
- (3) The portion of the cost of insurance obtained by the Contractor that is allocable to coverage of risks of loss referred to in paragraph (f)(1) of this clause is not allowable.
- (g) *Steps to be taken in event of loss.* In the event of any damage, destruction, or loss to Government property in the possession or custody of the Contractor with a value above the threshold set out in the Contractor's approved property management system, the Contractor —
 - (1) Shall immediately inform the Contracting Officer of the occasion and extent thereof,
 - (2) Shall take all reasonable steps to protect the property remaining, and
 - (3) Shall repair or replace the damaged, destroyed, or lost property in accordance with the written direction of the Contracting Officer. The Contractor shall take no action prejudicial to the right of the Government to recover therefore, and shall furnish to the Government, on request, all reasonable assistance in obtaining recovery.
- (h) *Government property for Government use only.* Government property shall be used only for the performance of this contract.
- (i) *Property Management—*
 - (1) *Property Management System.*

- (i) The Contractor shall establish, administer, and properly maintain an approved property management system of accounting for and control, utilization, maintenance, repair, protection, preservation, and disposition of Government property in its possession under the contract. The Contractor's property management system shall be submitted to the Contracting Officer for approval and shall be maintained and administered in accordance with sound business practice, applicable Federal Property Management Regulations and Department of Energy Property Management Regulations, and such directives or instructions which the Contracting Officer may from time to time prescribe.
 - (ii) In order for a property management system to be approved, it must provide for—
 - (A) Comprehensive coverage of property from the requirement identification, through its life cycle, to final disposition;
 - (B) [Reserved]
 - (C) Full integration with the Contractor's other administrative and financial systems; and
 - (D) A method for continuously improving property management practices through the identification of best practices established by “best in class” performers.
 - (iii) Approval of the Contractor's property management system shall be contingent upon the completion of the baseline inventory as provided in subparagraph (i)(2) of this clause.
- (2) *Property Inventory.*
- (i) Unless otherwise directed by the Contracting Officer, the Contractor shall within six months after execution of the contract provide a baseline inventory covering all items of Government property.
 - (ii) If the Contractor is succeeding another contractor in the performance of this contract, the Contractor shall conduct a joint reconciliation of the property inventory with the predecessor contractor. The Contractor agrees to participate in a joint reconciliation of the property inventory at the completion of this contract. This information will be used to provide a baseline for the succeeding contract as well as information for closeout of the predecessor contract.
- (j) The term “contractor's managerial personnel” as used in this clause means the Contractor's directors, officers and any of its managers, superintendents, or other

equivalent representatives who have supervision or direction of all or substantially all of—

- (1) The Contractor's business; or
 - (2) The Contractor's operations at any one facility or separate location at which this contract is being performed; or
 - (3) The Contractor's Government property system and/or a Major System Project as defined in DOE Order 413.3B, or successor version (Version in effect on effective date of contract).
- (k) The Contractor shall include this clause in all cost reimbursable subcontracts.

PART III

List of Documents, Exhibits and Other Attachments

Section J - List of Attachments

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ATTACHMENT J.1

APPENDIX A

ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

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Appendix A

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES

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SECTION I - INTRODUCTION

- (a) This Advance Understanding is intended to document the principles and measures for evaluation of the Contractor's Human Resource Management (CHRM) programs and other items of allowable personnel costs and related expenses not specifically addressed elsewhere under this contract. LBNL employees are covered by University personnel policies and the terms of this contract. Accordingly, costs incurred pursuant to University policy and other terms of this contract are allowable and are not otherwise specifically set forth in this appendix. LBNL implementation of University policy may include specific adaptations and variations when approved by the University. Any changes to the personnel policies or practices in place as of the effective date of this contract which would increase costs, is subject to approval in advance by the Contracting Officer.
- (b) LBNL CHRM programs will comply with the Federal Acquisition Regulation (FAR) cost principles and FAR contract clauses, as supplemented by the Department of Energy Acquisition Regulation (DEAR), for all HR programs, including but not limited to Compensation, Health and Welfare Benefits, Pension Plans, Training and Development, Employee Morale, Employee and Labor Relations, Recruitment and Relocation. The Contractor shall use effective management review procedures and internal controls to assure compliance with the FAR and DEAR.
- (c) This Appendix A may be modified from time to time by agreement of the Parties. Either Party may, at any time request that this Appendix A be revised, and the Parties hereto agree to negotiate in good faith concerning any requested revision. Revisions to this Appendix A shall be accomplished by executing an Advance Understanding modification as approved by the DOE Contracting Officer.
- (d) The Laboratory Director may make exceptions to the provisions of Appendix A when such exceptions are in the best interest of contract operations or will facilitate or enhance contract performance and are approved in advance by the Contracting Officer.
- (e) The Contractor, or designated representative, shall promptly furnish all reports and information required or otherwise indicated in this Advance Understanding to the Contracting Officer. The Contractor recognizes that the Contracting Officer or designated representative may make other data requests from time to time and the Contractor agrees to cooperate in meeting requests.
- (f) It is understood that no provision of this Appendix can affect any right guaranteed to a bargaining unit employee by the terms of a Collective Bargaining Agreement.

- (g) For purposes of this Appendix, "Laboratory Director" may include other individuals as specified in writing to have the authority to act on his or her behalf.

SECTION II - COMPENSATION

(a) Salary increases.

- (1) The Contracting Officer's approval of compensation actions pursuant to H.21(c) will consider:
- (i) relative alignment of proposed salaries with subordinate levels;
 - (ii) available market data, comparing total-cash compensation;
 - (iii) total compensation relative to the maximum compensation reimbursement level, per the Bipartisan Budget Act of 2013 (BBA), Section 702, Limitation on Allowable Government Contractor Compensation Costs.

(b) Administrative stipends.

- (1) Administrative stipends for temporary assignments. An administrative stipend may be paid to any employee who is temporarily assigned responsibilities of a higher level position or other significant duties not part of the employee's regular position. The sum of stipend and base salary shall not exceed the maximum salary of the higher level position. The Laboratory Director may authorize an administrative stipend up to 15% of the appointee's annual base salary or not less than the minimum of the range of the higher level responsibilities for a period not to exceed two years. For Scientific management temporary assignments, the Laboratory Director may authorize an administrative stipend up to 30% of the appointee's annual base salary or not less than the minimum of the range of the higher level responsibilities for a period not to exceed two years. The entire amount of all stipends shall be removed when the employee reverts back to their original position.
- (2) Faculty Division Directors. An administrative stipend may be paid to a Faculty Division Director which is calculated as a percentage of their annualized base salary figure determined by the campus. The receipt of the stipend will continue for the individual's tenure in the position.
- (3) Faculty in Scientific and Engineering (S&E) management assignments. An administrative stipend up to 30% may be paid to Faculty in S&E management assignments, which is calculated as a percentage of their

annualized base salary figure determined by the campus. The receipt of the stipend will continue for the individual's tenure in the position.

- (4) All stipends shall be reported annually to the Contracting Officer by December 15th.

(c) Compensation Increase Plan (CIP).

- (1) The Contractor shall submit the CIP proposal 90 days prior to the beginning of the succeeding fiscal year.
- (2) In order to pay "on-market-on-average," in the calculation of market position, Laboratory salary data shall be matched to survey data as of April 1, the midpoint of the fiscal year.
- (3) The CIP shall be expressed as a percentage of the projected September 30 reimbursed base payroll.
- (4) The Contractor is authorized a Promotion/Adjustment fund of up to 1% of base reimbursed payroll. Additional funding for promotions/adjustments shall be included in the CIP request as a discrete line item.

(d) Payment of University of California Faculty.

- (1) Faculty compensation reimbursed to the home institution for the percentage of time worked at the host institution shall be paid at the salary and fringe benefit rates established by the home institution.
- (2) Faculty compensation paid directly for summer service will be in accordance with University of California Academic Personnel Policy, based upon the salary rate established by the home institution.

(e) Special De Minimis Teaching Arrangement with University of California campuses.

- (1) Scientists and Engineers, in addition to accomplishing their LBNL responsibilities, are authorized to teach one course in the subjects of science, engineering or math every two years at any University of California campus.

SECTION III - ANCILLARY PAY COMPONENTS

(a) Modified workweek.

The Laboratory Director may designate a workweek of less than five days within a pay week for selected employees, or groups of employees, when warranted.

(b) Extended workweek.

- (1) An extended workweek is an established workweek which exceeds 40 hours each week for a period which it is anticipated will extend beyond four consecutive weeks.
- (2) When deemed essential to the performance of work under this contract, an extended workweek may be established at the Laboratory.

(c) Operational workweek.

- (1) An "operational workweek" is a workweek established when overtime is required for field or test activities away from regular Laboratory sites. Such workweeks are normally for 54 hours per week, but may be for more.
- (2) An exempt employee assigned to an operational workweek may be paid supplemental pay calculated at a prorated percentage of the monthly base salary.

(d) Shift differential.

A shift differential shall be paid to each nonexempt employee who is required by management to work an assigned swing or owl shift, in the amount of 7.5% for swing shift and 15% for owl shift.

(e) Call-in pay.

Any nonexempt employee called in for emergency work outside of his/her regularly scheduled hours shall be paid at least four hours at his/her straight-time hourly rate or for all hours worked at the applicable overtime rate, whichever is greater.

(f) On-call pay.

The Laboratory is authorized to pay exempt employees assigned to restricted on-call duty a flat rate amount not to exceed \$60 for each 24 hour period provided they are on-call for a minimum of 15 hours within a 24 hour period during the employee's normal workweek. The flat rate maximum may be increased on an annual basis not to exceed the CIP authorization for professional/administrative/technical employees. Unrestricted on-call is unpaid.

(g) Call-at-Home Pay.

The Laboratory is authorized to pay nonexempt employees up to one and one-half times the appropriate rate for all time actually worked or a minimum of one hour at one and one-half times the appropriate rate, whichever is greater, as the

result of being called at home outside of normal work hours, with or without prior notice, to perform emergency work unable to be accomplished through remote electronic access.

(h) Duty Officers.

Duty Officers are Laboratory employees required to remain on site outside of normally scheduled working hours so as to be promptly available. Exempt employees assigned as on-site duty officers shall be paid \$115.00 for each 24-hour period in a weekend or holiday shift worked.

(i) Special allowances.

(1) Temporary domestic assignment allowances shall be consistent with AL 2013-01 dated October 18, 2012 entitled "Contractor Domestic Extended Personnel Assignments."

(2) Foreign temporary assignment allowances. Allowances payable for official temporary change-of-station assignments in foreign areas will be at rates established by the U.S. Secretary of State.

(3) Pre-Retirement Counseling. Round trip travel expenses for an employee whose permanent duty station is outside of California may be reimbursed.

(j) Medical evacuation services/insurance. Employees required to perform official travel to foreign countries where local care is substandard (according to U.S. standards) may have coverage that pays for evacuation services to an acceptable medical facility in a proximal location on an urgent or emergency basis. The policy shall cover evacuation, expatriation of remains, and ancillary costs associated with the incident. Costs for such coverage for eligible employees are allowable.

(k) Visiting Postdoctoral Fellows Benefit Plans. The Laboratory Director is authorized to implement a Supplemental Benefits Program for employees in the Visiting Postdoctoral Fellow employee classification. The Supplemental Benefits Program will be in addition to the current Mid-Level Benefits Package provided to this group of employees. The complete benefits package for this group of employees will be comparable to the University of California Postdoctoral Scholar Benefits program minus the Long-Term Disability Insurance.

The Laboratory may utilize a Third-Party Administrator for the administration of the above noted benefits. Increased costs for the Third Party Administrator for these benefits, or an increase in the level of benefits, will require advance approval from the Contracting Officer.

An annual report on costs and enrollment in the Visiting Postdoctoral Fellows benefit plans and Third Party Administrator costs will be provided to the Contracting Officer.

SECTION IV - PAYMENTS ON TERMINATION OF EMPLOYMENT

- (a) Sick leave. Accumulated sick leave is not payable upon termination and may not be used beyond a predetermined date of termination.
- (b) Vacation.
 - (i) Accumulated vacation is payable at termination or upon extended military leave at the rate in effect as of the date of termination, including any shift differential.
 - (ii) Transfer of Credit.

When an employee changes employment between a Laboratory and a campus, medical center, or Office of the President of the University of California, vacation credit is transferred to the Laboratory or UC entity including the funds supporting the vacation credit.

- (c) Termination assistance is authorized in accordance with the UC-Managed DOE National Laboratories Policy on At Will Upper Management Personnel.

SECTION V - LABOR RELATIONS

- (a) Collective bargaining.

Costs of fringe benefits and wages paid to employees under collective bargaining agreements are allowable. All other reasonable costs and expenses, such as expenses relating to the grievance process, arbitration and arbitration awards, and other costs and expenses incurred pursuant to applicable collective bargaining agreements and revisions thereto, are also allowable.
- (b) Grievance and complaint costs.
 - (1) The Contractor may pay as an allowable cost the entire costs or some portion thereof for services rendered by a non-Laboratory hearing officer.
- (c) Bargaining Unit Activity.

Pay for absences from work by employees acting in the capacity of union officers, union stewards and committee members for time spent in handling grievances, negotiating with the Laboratory, and serving on labor management (Laboratory) committees, are allowable.

SECTION VI - STAFF SETTLEMENT COSTS

- (a) Staff Settlement Costs - The Contractor is authorized to resolve claims settlements up to \$25,000 without the advance approval of the CO. Workers' compensation claims settlements shall be in accordance with H.24.

SECTION VII - LEAVES

- (a) Security Leave.

Wages or salaries paid to employees when access authorization is suspended by DOE will be allowable costs under the following conditions:

Transfer. An employee who is transferred to an available position not requiring access authorization may continue to receive the employee's base compensation applicable to the position from which the employee was transferred until final disposition of the case.

Leave. If a position which does not require access authorization is not available, the Laboratory Director may place the employee on leave with pay at his or her base compensation until final disposition of the case.

Reinstatement. If access authorization is reinstated during or at the conclusion of the administrative review process, the employee shall be reinstated to the same or a comparable position to the one held prior to suspension of access authorization.

This section VII (a) does not apply to applicants who have not entered on duty or any employee discharged or suspended for cause under the Laboratory policies.

- (b) The following leave policies are authorized in accordance with Contractor policies, and/or any applicable State or Federal law.

Administrative Leave
Anticipated Power Interruptions Leave
Authorized Leave with Pay
Family and Medical Leave
Holidays
Investigatory Leave
Military Leave
National Defense Leave
Parental Leave
Personal Leave (Leave Without Pay)
Pregnancy Disability Leave
Professional Development Leave
Public Emergency Leave

Sick Leave
Supplemental Family Leave
Vacation
Workers' Compensation and Injury Leave

SECTION VIII - TRAINING, EDUCATION AND DEVELOPMENT

- (a) The Laboratory shall establish training, education and development programs that are consistent with DOE requirements and guidance, industry standards, and other Federal, State and local regulations. These programs shall ensure that employees are well-qualified and competent to manage facilities and meet mission requirements through administrative, professional and technical excellence.

(1) Training.

The Laboratory may permit selected employees to attend training classes while receiving full pay in order to enable them to acquire the needed skills to qualify them for more responsible jobs and maintain competence in their fields.

(2) Education.

(A) The Laboratory may approve and support educational courses taken by employees which serve to improve efficiency and productivity of Laboratory operations, increase needed skills, or prepare employees for increased responsibilities.

(B) An employee or third Party on behalf of an employee may be paid for tuition, required textbooks and fees for courses approved in advance by the Laboratory.

(3) Development.

The Contractor shall be reimbursed for the cost of personnel training and personnel development programs, including but not limited to, apprenticeship training, supervisory training, management development, career updating and redirection, and work-study and other programs supporting the development of staff in fields of interest to the Laboratory

- (b) Professional research or teaching leave. To promote the continuing professional growth and competence of employees, the Laboratory Director may grant partially subsidized leave, as described below, to a limited number of exempt employees. Such leave, to be known as professional research or teaching leave, may be spent at appropriate institutions within the United States or abroad.

- (1) The period of leave may not exceed twelve months.
- (2) Salary payments to an employee on professional research or teaching leave may not exceed the following schedule:

<u>Years of Service or Years Since Last PR or T Leave</u>	<u>PR or T Leave Not to Exceed to Six months</u>	<u>PR or T Leave 7-12 Months</u>
4 years	.89 salary	.44 salary
4 1/2 years	Regular salary	.50 salary
5 years	Regular salary	.56 salary
5 1/2 years	Regular salary	.61 salary
6 years	Regular salary	.67 salary
7 years	Regular salary	.78 salary
8 years	Regular salary	.89 salary
9 years	Regular salary	Regular salary

- (3) Cost of travel shall not be reimbursed by the Contractor.
 - (4) Vacation and sick leave shall not accrue to the individual while on professional research or teaching leave.
 - (5) If the employee voluntarily leaves Laboratory employment within one year of returning from leave, he or she must reimburse the Laboratory for all salary paid to him or her while on leave.
- (c) Professional renewal leave. The Laboratory Director may grant professional renewal leave to a limited number of Laboratory managers for furtherance of Laboratory objectives. The purpose of professional renewal leave is to provide these individuals an opportunity to attach themselves to external organizations and/or programs for the purpose of professional revitalization and development. These temporary external assignments shall be approved based on technical and programmatic relevance to assure mutual benefit to both the Laboratory and employee. General provisions:
- (1) Candidate must be either a recognized senior scientific or management series employee for whom it would not normally be practical to utilize either the advanced study program or the professional research or teaching leave.
 - (2) The period of leave shall not exceed six months.
 - (3) Salary payments, vacation, sick leave, and other benefits shall continue as if the employee were in full duty status at the Laboratory.
 - (4) The Laboratory may provide travel support in accordance with this contract.

- (5) If the employee voluntarily leaves Laboratory employment within one year of returning from leave, he or she must repay the Laboratory all funds provided in accordance with (3) and (4) above.
- (d) Graduate Student Research Assistants (GSRA) fee remission program. GSRA's may receive tuition, fee remissions, and health insurance benefits as determined by University policies.

SECTION IX - EMPLOYEE PROGRAMS

- (a) Service/Retirement/Non-Performance awards.

The Contractor is authorized to provide monetary or non-monetary recognition for achievements not based on performance. Awards may include, for example, Length of Service/Retirement Recognition; Safety Awards; Suggestion Program. The cost of awards for this program is not to exceed \$50,000 per fiscal year without prior approval of the Contracting Officer.

- (b) Performance award programs.

- (1) The Contractor may recognize employees or groups of employees who have distinguished themselves by their significant contributions and outstanding performance in the course of their work. Awards may be provided to employees or groups of employees in the form of cash. Additionally, noteworthy achievements and special efforts may be recognized by the presentation of plaques, certificates, and memorabilia.

- (2) Up to 0.2%, of the total salary base may be spent to fund performance award programs. Costs in excess of the authorized amounts shall require advance approval of the Contracting Officer.

- (c) Employee Referral Incentive Program (ERIP). The Laboratory Director is authorized to implement an Employee Referral Incentive Program. Contracting Officer approval is required for all changes to policy impacting bonus maximums.

- (d) Employee Communications. The costs incurred in the publication, printing and distribution of a newsletter, handbooks and other employee communication media designed to effectuate better employee relations and understanding of Appendix A and current employment regulations shall be reimbursed and managed in a cost effective manner.

- (e) Other.

- (1) The Contractor may develop, administer and support a variety of employee programs that will enhance employee morale. These programs may include athletic, cultural, and family activities. Participant fees may

be collected to partially offset the cost of some or all of these activities. Laboratory support may include administrative oversight and staff support. Appropriate facilities, utilities, and maintenance may be provided by the Laboratory. The level of Laboratory financial support for these programs is not to exceed \$16 per employee (full time or part time), per fiscal year. Expenditures under this program shall require the approval of the Laboratory Director.

- (2) Wellness program. Costs of a Wellness Program to promote employee health and fitness are allowable.
- (3) Dependent Care.

The Laboratory is authorized to provide a dependent care benefit program as a fringe benefit.

If applicable, the Contractor shall sub-contract the operation of a dependent care center. Support costs for labor, materials, and supplies expended for the operation of a dependent care facility are unallowable. The facility must be for the exclusive use of Laboratory employees. Expense items such as utilities, maintenance, food services, medical services, or supplies already used in support of site operations and readily available are allowable. The cost of meals shall not be allowable.

- (f) Energy Employees' Occupational Illness Compensation Program Act (EEOICPA).

The Laboratory agrees to comply with requests for information, records, and other program requirements to ensure the orderly administration and adjudication of claims under the EEOICPA.

SECTION X - COSTS OF RECRUITING PERSONNEL

- (a) The Contractor may incur costs for the recruitment of personnel, as follows:
 - (1) Costs of advertising and agency and consultant fees shall not exceed \$1,000,000 annually without prior Contracting Officer approval.
 - (2) Recruiting Expenses - The Laboratory may reimburse, consistent with other provisions of this contract, employees traveling for recruiting purposes, the actual cost incurred for the following expenses, transportation, lodging, and meals for the interviewee and, when approved by the Contracting Officer, for spouses, and other incidental expenses incurred in recruiting.

- (3) New or prospective employees who have been offered and have accepted a position, and who are required to take a pre-placement physical examination, shall be reimbursed for costs of the physical examination.
- (4) Costs associated with pre-employment screening shall be allowable.
- (b) Recruitment/Retention Tools.
 - (1) The Laboratory Director may authorize an hiring or retention bonus up to \$25,000 to recruit or retain employees with critical skills.
 - (2) The Contractor shall seek prior Contracting Officer approval for any recruitment and/or retention bonus outside of the limitations stated above in paragraph (1).
- (c) The Contractor is authorized to provide service credit to critical skill new-hires for previous relevant experience at another DOE facility or external organization. Credited service may be used to establish eligibility for, or determine accrual of, non-pension, service-based benefits; for example, vacation accrual rates and severance payments (unless severance has been paid for prior service at a DOE facility as indicated in Clause H.21(c)(1)(D)), in accordance with the contractor's policies.

SECTION XI - SPECIAL PROGRAMS

- (a) Academic cooperation program. The Laboratory Director may approve the assignment of certain selected individuals at the graduate or undergraduate level, who are currently enrolled in recognized colleges or universities, to projects proposed by the college or university and approved by the Contractor. Such assignments are to be made primarily to further the individual's training, experience and education. The training the individual receives will be credited by the academic institution. Individuals approved by the Laboratory Director under this program may be reimbursed a daily subsistence allowance in accordance with this Appendix for each day of Laboratory attendance.
- (b) Special employment programs. The Laboratory Director may authorize the administration of special employment programs for students at the postgraduate, graduate, undergraduate, and pre-college levels. The Laboratory Director may also authorize the administration of special employment programs for school teachers to advance science curriculum development in the schools. Costs associated with salaries, transportation, and relocations shall be in accordance with Contractor policies and Section I (b) above and shall be reported annually to the Contracting Officer. Internship or membership fees associated with nationally recognized programs that are paid to other institutions in support of these programs are allowable. A description of the Contractor's special employment programs shall be provided to the Contracting Officer annually.

- (c) Fellowship programs. The Contractor may incur costs associated with participation in programs (e.g., consortium arrangements such as the National Physical Sciences Consortium for Graduate Degrees for Minorities and Women and the National Consortium for Graduate Degrees for Minorities in Engineering, DOE/Contractor academy/leadership programs, Laboratory science education initiatives) to provide graduate fellowships to students in science and engineering. Costs associated with employment of students shall include salaries, transportation, and relocation. A description of these programs shall be provided annually to the Contracting Officer.
- (d) Lectures - Honoraria - travel and subsistence
- (1) The Laboratory Director may approve the payment of either a stipend, or an honorarium and costs of travel and subsistence, for a person chosen to give a lecture to or discuss problems of interest with Laboratory employees.
 - (2) When payment of travel, subsistence, and honorarium is authorized, an honorarium or stipend in excess of \$2,000 shall require the Laboratory Director's approval.

SECTION XII - REDUCTIONS IN CONTRACTOR EMPLOYMENT

Reductions in employment will be conducted in accordance with the contractor's CO-approved policies and practices and in accordance with applicable Departmental guidance on workforce restructuring, as revised from time to time.

(a) Workforce Restructuring Actions

- (1) The Contractor will notify or request approval of workforce restructuring actions in accordance with the following:

RESTRUCTURING ACTION	#EMPLOYEES POTENTIALLY IMPACTED	ACTION REQUIRED
Voluntary	100 or more	CO Notification
Involuntary	100 or more	CO Approval

- (A) The Contractor is only required to provide notification of Self-Select Voluntary Separation Programs (SSVSP) if consistent with the following parameters:
- a. In accordance with approved laboratory/contractor policies;

- b. No enhanced benefits (e.g. additional severance, pension, or other benefits in excess of those provided for under Contractor's policies and collective bargaining agreements);
 - c. No backfilling (internally or externally) or re-employment of employees for a one-year period after severance is paid. If an employee is hired or rehired prior to the one-year period, the employee may be required to pay back, to the contractor who provided the severance payment, all or a pro-rata amount of the severance received under the SSVSP. Notwithstanding the above, backfilling is permitted where a separating employee is replaced by an internal candidate provided that:
 - i. The separating employee is leaving voluntarily;
 - ii. The internal replacement is a regular, permanent employee on the contractor's payroll, not a temporary hire, staff augmentee, or someone serving under a post-doctoral program, etc.;
 - iii. The replacement results in a net reduction in headcount and costs of regular employees; and
 - iv. The replacement is accomplished in an otherwise legally compliant manner, including no unlawful intent to discriminate based upon age.
 - d. A business case is submitted 5 business days in advance of notification date that include maximum number of voluntary reductions, maximum dollars, positions/skills impacted; reasons reductions are needed, including how conducting a SSVSP will better position the contractor to conduct the mission work, copy of self-select waivers, and communication plan; and
 - e. Voluntary reductions are offered to all eligible employees in an operational unit (i.e., organization, direct/indirect category, etc.)
- (B) Actions requiring approval will additionally require a workforce restructuring plan (hereinafter, Specific Plan) prepared in accordance with DOE policy.
- (C) Approval actions shall be submitted a minimum of 10 business days prior to announcement to employees.

- (D) The Contracting Officer will review and approve any Specific Plan or diversity analysis submitted for review affecting the reduction of 100 or more employees through an involuntary separation action within 10 business days after submission of a complete package by the Contractor unless the Contractor is notified of issues necessitating an extension of time. Should DOE request additional information from the Contractor regarding any Specific Plan or diversity analysis, the Contractor will respond to such request within 3 business days.
 - (E) The Contractor must perform an adverse impact analysis (also known as a diversity analysis) as part of its determination to undertake involuntary separation action(s). A copy of the diversity analysis for involuntary separation action(s) affecting 100 or more contractor employees within a rolling 12-month period shall be submitted to the DOE site counsel, as applicable, prior to notification of employees selected for involuntary separation.
 - (F) Waivers or self-select forms that vary from those provided in DOE policy documents are subject to approval by DOE. The templates for contractor Involuntary Separation Plan, as well as the General Release and Waiver Forms, are available online at:
<http://www.energy.gov/gc/services/technology-transfer-and-procurement/office-assistant-general-counsel-labor-and-pension>.
 - (G) The Contractor is responsible and accountable for conducting and defending all voluntary and involuntary separation actions in compliance with applicable laws, regulations, and the contract terms and conditions. Notwithstanding anything to the contrary, Section I.98 – DEAR 970.5228-1 (Insurance – Litigation and Claims) of the Contract shall govern any claims that may arise out of voluntary and involuntary separation actions.
- (2) Any employee who volunteers for layoff or retirement during a time period in which the Contractor has a DOE approved or Contractor Management approved active reduction in force plan or action will be eligible for severance pay provided the termination is accepted by Laboratory management and results in the retention of an employee who otherwise would have been laid off. Severance not associated with workforce restructuring is unallowable.
- (3) Severance pay benefit.
- (A) For nonprobationary career employees, the severance payment shall be made in an amount equal to one week's pay for each year of continuous full-time equivalent service (a fractional year of full-

time equivalent service of six months or more is counted as one year of service) not to exceed a total of 26 weeks pay.

- (B) For Upper Laboratory Management and Senior Management Group, the severance payment shall be in an amount equal to four months' salary.
- (4) Pay in lieu of notice. Any employee who is involuntarily separated due to a workforce restructuring action may be given pay in lieu of the required minimum written notice of termination. Accumulated vacation credit is also paid.
- (5) The Contractor, to the extent practicable, shall provide outplacement services in the forms of skills assessment and resume preparation to those employees who are involuntarily separated due to a layoff.
- (6) Employees placed on layoff status who have completed the entry probation period may be eligible for continued participation in the DOE Displaced Worker Medical Benefits program with premiums supplemented by the Contractor based on the following schedule:
 - (A) First Year: The Contractor's contribution for an active employee
 - (B) Second Year: One half of the Contractor's Cobra premium
 - (C) Third and subsequent years: Reasonable administrative costs that exceed the two percent administrative fee paid by the displaced worker.

Eligibility is determined in accordance with Departmental policy on workforce restructuring.

ADDITIONAL REFERENCES

SECTION III - ANCILLARY PAY COMPONENTS

Overtime.

Clause I.21 FAR 52.222-4 (Contract Work Hours and Safety Standards Act—Overtime Compensation)

I.85 DEAR 970.5222-2 (Overtime Management)

SECTION V - LABOR RELATIONS

I.19 FAR 52.222-1 (Notice to the Government of Labor Disputes)

I.84 DEAR 970.5222-1 (Collective Bargaining Agreements—Management and Operating Contracts)

FAR 31.205-21 (Labor Relations Costs)

SECTION VII - LEAVES

Community Service Leaves

FAR 31.205-(1)(e)(3) (Public Relations and Advertising Costs)

SECTION VIII – TRAINING, EDUCATION AND DEVELOPMENT

FAR 31.205-44 (Training and Education Costs)

SECTION IX - EMPLOYEE PROGRAMS

FAR 31.205-13. (Employee Morale, Health, Welfare, Food Service, and Dormitory Costs and Credits)

SECTION X - COSTS OF RECRUITING PERSONNEL

Recruitment Costs

FAR 31.205-34

Relocation Costs

FAR 31.205-35

SECTION XII – REDUCTIONS IN CONTRACTOR EMPLOYMENT

Severance

FAR 31.205-6 (g) (Compensation for Personal Services (Severance))

ATTACHMENT J.2

APPENDIX B

FY 2020 PERFORMANCE EVALUATION AND MEASUREMENT PLAN

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

INTRODUCTION

This document, the Performance Evaluation and Measurement Plan (PEMP), primarily serves as DOE's Quality Assurance/Surveillance Plan (QASP) for the evaluation of The Regents of the University of California (hereafter referred to as "the Contractor") performance regarding the management and operations of the Lawrence Berkeley National Laboratory (hereafter referred to as "the Laboratory") for the evaluation period from October 1, 2019, through September 30, 2020. The performance evaluation provides a standard by which to determine whether the Contractor is managerially and operationally in control of the Laboratory and is meeting the mission requirement and performance expectations/objectives of the Department as stipulated within this contract.

This document also describes the distribution of the total available performance-based fee and the methodology for determining the amount of fee earned by the Contractor as stipulated within the clauses entitled, "Determining Total Available Performance Fee and Fee Earned," "Conditional Payment of Fee, Profit, or Incentives," and "Total Available Fee: Base Fee Amount and Performance Fee Amount." In partnership with the Contractor and other key customers, the Department of Energy (DOE) Headquarters (HQ) and the Site Office have defined the measurement basis that serves as the Contractor's performance-based evaluation and fee determination.

The Performance Goals (hereafter referred to as Goals), Performance Objectives (hereafter referred to as Objectives) and set of notable outcomes discussed herein were developed in accordance with contract expectations set forth within the contract. The notable outcomes for meeting the Objectives set forth within this plan have been developed in coordination with HQ program offices as appropriate. Except as otherwise provided for within the contract, the evaluation and fee determination will rest solely on the Contractor's performance within the Performance Goals and Objectives set forth within this plan.

The overall performance against each Objective of this performance plan, to include the evaluation of notable outcomes, shall be evaluated jointly by the appropriate HQ office, major customer and/or the Site Office as appropriate. This cooperative review methodology will ensure that the overall evaluation of the Contractor results in a consolidated DOE position taking into account specific notable outcomes as well as all additional information available to the evaluating office. The Site Office shall work closely with each HQ program office or major customer throughout the year in evaluating the Contractor's performance and will provide observations regarding programs and projects as well as other management and operation activities conducted by the Contractor throughout the year.

Section I provides information on how the performance rating (grade) for the Contractor, as well as the performance-based incentives fee earned (if any), will be determined. As applicable, also provides information on the award term eligibility requirements.

Section II provides the detailed information concerning each Goal, its corresponding Objectives, and notable outcomes identified, along with the weightings assigned to each Goal and Objective and a table for calculating the final grade for each Goal.

I. DETERMINING THE CONTRACTOR'S PERFORMANCE RATING, PERFORMANCE-BASED FEE AND AWARD TERM ELIGIBILITY (as applicable)

The FY 2020 Contractor performance grade for each Goal will be determined based on the weighted sum of the individual scores earned for each of the Objectives described within this document for Contractor/Laboratory Leadership and for Management and Operations (M&O). For each Science and Technology (S&T) Goal, an initial weighted sum will be calculated analogously for each evaluating office, and a cost-based weighted sum of these initial sums will determine the Contractor performance grade. Each Goal is composed of two or more weighted Objectives. Additionally, a set of notable outcomes has been identified to highlight key aspects/areas of performance deserving special attention by the Contractor for the upcoming fiscal year. Each notable outcome is linked to one or more Objectives, and failure to meet expectations against any notable outcome will result in a grade less than B+ for that Objective(s). That is, if the contractor fails to meet expectations against a notable outcome tied to an Objective under Goal 1.0, 2.0, or 3.0, the SC program office that assigned the notable outcome shall award a grade less than “B+” for the Objective(s) to which the notable outcome is linked; and if the contractor fails to meet expectations against a notable outcome tied to an Objective under Goal 4.0, 5.0, 6.0, 7.0 or 8.0, SC shall award a grade less than “B+” for the Objective(s) to which the notable outcome is linked. Performance above expectations against a notable outcome will be considered in the context of the Contractor’s entire performance with respect to the relevant Objective. The following section describes SC’s methodology for determining the Contractor’s grades at the Objective level.

Performance Evaluation Methodology:

The purpose of this section is to establish a methodology to develop grades at the Objective level. Each evaluating office shall provide a proposed grade and corresponding numerical score for each Objective (see Figure 1 for SC’s scale). Each evaluation will measure the degree of effectiveness and performance of the Contractor in meeting the corresponding Objectives.

Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	0.8-1.0	0.7-0

Figure 1. FY 2020 Contractor Letter Grade Scale

For the three S&T Goals (1.0 – 3.0) the Contractor shall be evaluated against the defined levels of performance provided for each Objective under the S&T Goals. The Contractor performance under Goal 4.0 will also be evaluated using the defined levels of performance described for the four Objectives under Goal 4.0. The descriptions for these defined levels of performance are included in Section II.

It is the DOE’s expectation that the Contractor provides for and maintains management and operational (M&O) systems that efficiently and effectively support the current mission(s) of the Laboratory and assure the Laboratory’s ability to deliver against DOE’s future needs. In evaluating the Contractor’s performance DOE shall assess the degree of effectiveness and performance in meeting each of the Objectives provided under each of the Goals. For the four M&O Goals (5.0 – 8.0) DOE will rely on a combination of the information through the Contractor’s own assurance systems, the ability of the Contractor to demonstrate the validity of this information, and DOE’s own independent assessment of the Contractor’s performance across the spectrum of its responsibilities. The latter might include, but is not limited to operational awareness (daily oversight) activities; formal assessments conducted; “For Cause” reviews (if any); and other outside agency reviews (OIG, GAO, DCAA, etc.).

The mission of the Laboratory is to deliver the science and technology needed to support Departmental missions and other sponsors' needs. Operational performance at the Laboratory meets DOE's expectations (defined as the grade of B+) for each Objective if the Contractor is performing at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance that does, or has the potential to, 1) adversely impact the delivery of the current and/or future DOE/Laboratory mission(s), 2) adversely impact the DOE and or the Laboratory's reputation, or 3) fail to provide the competent people, necessary facilities and robust systems necessary to ensure sustainable performance, shall be graded below expectations as defined in Figure I-1, below.

The Department sets our expectations high, and expects performance at that level to optimize the efficient and effective operation of the Laboratory. Thus, the Department does not expect routine Contractor performance above expectations against the M&O Goals (5.0 – 8.0). Performance that might merit grades above B+ would need to reflect a Contractor's significant contributions to the management and operations at the system of Laboratories, or recognition by external, independent entities as exemplary performance.

Definitions for the grading scale for the Goal 5.0 – 8.0 Objectives are provided in Figure I-1, below:

Letter Grade	Numerical Grade	Definition
A+	4.3-4.1	Significantly exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance is notable for its significant contributions to the management and operations across the SC system of laboratories, and/or has been recognized by external, independent entities as exemplary.
A	4.0-3.8	Notably exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance is notable for its contributions to the management and operations across the SC system of laboratories, and/or as been recognized by external, independent entities as exemplary.
A-	3.7-3.5	Exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s).
B+	3.4-3.1	Meets expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). No performance has, or has the potential to, adversely impact 1) the delivery of the current and/or future DOE/Laboratory mission(s), 2) the DOE and/or the Laboratory's reputation, or does not 3) provide a sustainable performance platform.
B	3.0 -2.8	Just misses meeting expectations of performance against a few aspects of the Objective in question. In a few minor instances, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission, or provide a sustainable performance platform.
B-	2.7-2.5	Misses meeting expectations of performance against several aspects of the Objective in question. In several areas, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission, or provide a sustainable performance platform.
C+	2.4-2.1	Misses meeting expectations of performance against many aspects of the Objective in question. In several notable areas, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission or provide a sustainable performance platform, and/or have affected the reputation of the Laboratory or DOE.

Letter Grade	Numerical Grade	Definition
C	2.0-1.8	Significantly misses meeting expectations of performance against many aspects of the Objective in question. In many notable areas, the Contractor's systems do not support the Laboratory's current and future science and technology mission, nor provide a sustainable performance platform and may affect the reputation of the Laboratory or DOE.
C-	1.7- 1.1	Significantly misses meeting expectations of performance against most aspects of the Objective in question. In many notable areas, the Contractor's systems demonstrably hinder the Laboratory's ability to deliver on current and future science and technology mission, and have harmed the reputation of the Laboratory or DOE.
D	1.0-0.8	Most or all expectations of performance against the Objective in question are missed. Performance failures in this area have affected all parts of the Laboratory; DOE leadership engagement is required to deal with the situation and help the Contractor.
F	0.7-0	All expectations of performance against the Objective in question are missed. Performance failures in this area are not recoverable by the Contractor or DOE.

Figure 1-1. Letter Grade and Numerical Grade Definitions for Objectives under M&O Goals

Calculating Individual Goal Scores and Letter Grades:

Each Objective is assigned the earned numerical score by each evaluating office as stated above. For an evaluating office, the Goal score is then computed by multiplying each Objective numerical score under that Goal by the weight assigned to that Objective by that office, and then adding these values together. For Goals 4.0-8.0, this determines the overall Goal score. For Goals 1.0-3.0, the overall Goal score is calculated by multiplying each evaluating office's Goal score by the office's cost-based weight, and then adding them. For the purpose of determining the eight Goal grades, the unrounded raw overall numerical score for each Goal will be rounded to the nearest tenth of a point using the standard rounding convention discussed below following Figure 2, and then will be compared to Figure 1. A set of tables is provided at the end of each Performance Goal section of this document to assist in the calculation from Objective numerical scores to the Goal grade. No overall rollup grade shall be provided.

The eight Performance Goal grades shall be used to create a report card for the laboratory (see Figure 2, below).

Performance Goal	Grade
1.0 Mission Accomplishment	
2.0 Design, Fabrication, Construction and Operations of Research Facilities	
3.0 Science and Technology Program Management	
4.0 Sound and Competent Leadership and Stewardship of the Laboratory	
5.0 Integrated Safety, Health, and Environmental Protection	
6.0 Business Systems	
7.0 Operating, Maintaining, and Renewing Facility and Infrastructure Portfolio	
8.0 Integrated Safeguards and Security Management and Emergency Management Systems	

Figure 2. Laboratory Report Card

Although rounded to convert to letter grades, the unrounded raw numerical score from each calculation shall be carried through to the next stage of the calculation process. The unrounded raw numerical score for weighted final S&T and weighted final M&O will be rounded to the nearest tenth of a point for purposes of determining fee. A standard rounding convention of x.44 and less rounds down to the nearest tenth (here, x.4), while x.45 and greater rounds up to the nearest tenth (here, x.5).

Determining the Amount of Performance-Based Fee Earned:

SC uses the following process to determine the amount of performance-based fee earned by the contractor. The overall Goal scores for each S&T Performance Goal shall be used to determine an initial numerical score for S&T (see Table A, below), and the overall Goal scores for each M&O Performance Goal shall be used to determine an initial numerical M&O score (see Table B, below).

S&T Performance Goal	Numerical Score	Weight ¹		
1.0 Mission Accomplishment		≥30%		
2.0 Design, Fabrication, Construction and Operation of Research Facilities				
3.0 Science and Technology Program Management		25%		
Initial S&T Score				

Table A. FY 2020 Contractor Evaluation Initial S&T Score Calculation

¹ For Goals 1.0 and 2.0, the weights are based on total fiscal year costs for all evaluating programs distributed between Goals 1.0 and 2.0; however, a minimum weight of 30% for Goal 1.0 is required regardless of cost distribution. For Goal 3.0, the weight is set as a fixed percentage for all laboratories.

M&O Performance Goal	Numerical Score	Weight		
5.0 Integrated Safety, Health, and Environmental Protection		25%		
6.0 Business Systems		25%		
7.0 Operating, Maintaining, and Renewing Facility and Infrastructure Portfolio		30%		
8.0 Integrated Safeguards and Security Management and Emergency Management Systems		20%		
Initial M&O Score				

Table B. FY 2020 Contractor Evaluation Initial M&O Score Calculation

These initial scores will then be adjusted based on the numerical score for Goal 4.0 (see Table C, below).

	Numerical Score	Weight		
Initial S&T Score		0.75		
Goal 4.0		0.25		
Final S&T Score				
Initial M&O Score		0.75		
Goal 4.0		0.25		
Final M&O Score				

Table C. FY2020 Final S&T and M&O Score Calculation

The percentage of the available performance-based fee that may be earned by the Contractor shall be determined based on the final score for S&T (see Table C) and then compared to Figure 3, below. The final score for M&O from Table C shall then be utilized to determine the final fee multiplier (see Figure 3),

which shall be utilized to determine the overall amount of performance-based fee earned for FY 2020 as calculated within Table D.

Overall Final Score for either S&T or M&O from Table C.	Percent S&T Fee Earned	M&O Fee Multiplier
4.3	100%	100%
4.2		
4.1		
4.0	97%	100%
3.9		
3.8		
3.7	94%	100%
3.6		
3.5		
3.4	91%	100%
3.3		
3.2		
3.1		
3.0	88%	95%
2.9		
2.8		
2.7	85%	90%
2.6		
2.5		
2.4	75%	85%
2.3		
2.2		
2.1		
2.0	50%	75%
1.9		
1.8		
1.7	0%	60%
1.6		
1.5		
1.4		
1.3		
1.2		
1.1		
1.0 to 0.8	0%	0%
0.7 to 0.0	0%	0%

Figure 3. Performance-Based Fee Earned Scale

Overall Fee Determination

Percent S&T Fee Earned	
M&O Fee Multiplier	x
Overall Earned Performance-Based Fee	

Table D. Final Percentage of Performance-Based Fee Earned Determination

The Federal Acquisition Regulations (FAR) requirements for using and administering cost-plus-award-fee contracts were modified to provide for a five-level adjectival grading system with associated levels of available fee.¹ SC has addressed the FAR Part 16 language by mapping its standard numerical scores and associated fee determinations to the FAR Adjectival Rating System, as noted in Figure 4.

Range of Overall Final Score for S&T from Figure 3.	FAR Adjectival Rating	Maximum Performance-Fee Pool Available to be Earned
3.1 to 4.3	Excellent	100%
2.5 to 3.0	Very Good	88%
2.1 to 2.4	Good	75%
1.8 to 2.0	Satisfactory	50%
0.0 to 1.7	Unsatisfactory	0%

Figure 4. Crosswalk of SC Numerical Scores and the FAR Part 16 Adjectival Rating System

Adjustment to the Letter Grade and/or Performance-Based Fee Determination:

The lack of performance objectives and notable outcomes in this plan does not diminish the need to comply with minimum contractual requirements. Although the performance-based Goals and their corresponding Objectives shall be the primary means utilized in determining the Contractor's performance grade and/or amount of performance-based fee earned, the Contracting Officer may unilaterally adjust the rating and/or reduce the otherwise earned fee based on the Contractor's performance against all contract requirements as set forth in the Prime Contract. While reductions may be based on performance against any contract requirement, specific note should be made to contract clauses which address reduction of fee including, Standards of Contractor Performance Evaluation, DEAR 970.5215-1 – Total Available Fee: Base Fee Amount and Performance Fee Amount, and Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts. Data to support rating and/or fee adjustments may be derived from other

¹ See Policy Flash 2010-05, *Federal Acquisition Circular 2005-37*.

sources to include, but not limited to, operational awareness (daily oversight) activities; “For Cause” reviews (if any); and other outside agency reviews (OIG, GAO, DCAA, etc.), as needed.

The adjustment of a grade and/or reduction of otherwise earned fee will be determined by the severity of the performance failure and consideration of mitigating factors. DEAR 970.5215-3 Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts is the mechanism used for reduction of fee as it relates to performance failures related to safeguarding of classified information and to adequate protection of environment, health and safety. Its guidance can also serve as an example for reduction of fee in other areas.

The final Contractor performance-based grades for each Goal and fee earned determination will be contained within a year-end report, documenting the results from the DOE review. The report will identify areas where performance improvement is necessary and, if required, provide the basis for any performance-based rating and/or fee adjustments made from the otherwise earned rating/fee based on Performance Goal achievements.

Determining Award Term Eligibility:

Pursuant to the clause entitled “Award Term Incentive” the Contractor may also earn additional term by exceeding performance expectations. The Contractor is eligible for award term in accordance with the clause when performance for the S&T and M&O components results in scores within the shaded areas of Table C, which would be scores of 3.5 or higher for S&T and 3.1 or higher for the M&O component. Notwithstanding the overall scores earned, if the Contractor scores less than a 3.1 in any S&T goal or less than a 2.5 in any M&O goal the Contractor will not be eligible for award term.

II. PERFORMANCE GOALS, OBJECTIVES & NOTABLE OUTCOMES

Background

The current performance-based management approach to oversight within DOE has established a new culture within the Department with emphasis on the customer-supplier partnership between DOE and the laboratory contractors. It has also placed a greater focus on mission performance, best business practices, cost management, and improved contractor accountability. Under the performance-based management system the DOE provides clear direction to the laboratories and develops annual performance plans (such as this one) to assess the contractors’ performance in meeting that direction in accordance with contract requirements. The DOE policy for implementing performance-based management includes the following guiding principles:

- Performance objectives are established in partnership with affected organizations and are directly aligned to the DOE strategic goals;
- Resource decisions and budget requests are tied to results; and
- Results are used for management information, establishing accountability, and driving long-term improvements.

The performance-based approach focuses the evaluation of the Contractor’s performance against these Performance Goals. Progress against these Goals is measured through the use of a set of Objectives. The success of each Objective will be measured based on demonstrated performance by the laboratory, and on a set of notable outcomes that focus laboratory leadership on the specific items that are the most important initiatives and highest risk issues the laboratory must address during the fiscal year. These notable outcomes should be objective, measurable, and results-oriented to allow for a definitive determination of whether or not the specific outcome was achieved at the end of the year.

Performance Goals, Objectives, and Notable Outcomes

The following sections describe the Performance Goals, their supporting Objectives, and associated notable outcomes for FY 2020.

GOAL 1.0 Provide for Efficient and Effective Mission Accomplishment

The science and technology programs at the Laboratory produce high-quality, original, and creative results that advance science and technology; demonstrate sustained scientific progress and impact; receive appropriate external recognition of accomplishments; and contribute to overall research and development goals of the Department and its customers.

The weight of this Goal is TBD%.

The Provide for Efficient and Effective Mission Accomplishment Goal measures the overall effectiveness and performance of the Contractor in delivering science and technology results which contribute to and enhance the DOE's (or other relevant supporting agencies') mission of protecting our national and economic security by providing world-class scientific research capacity and advancing scientific knowledge by supporting world-class, peer-reviewed scientific results, which are recognized by others.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers as identified below. The Goal score from each HQ Program Office and/or customer is computed by multiplying each Objective numerical score by the associated weight assigned by that Office/customer, and summing them (see Table 1.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)
- Office of Workforce Development for Teachers and Scientists (WDTS)
- Office of Defense Nuclear Nonproliferation (DNN)
- Office of Electricity (OE)
- Office of Energy Efficiency and Renewable Energy (EERE)
- Office of Fossil Energy (FE)
- National Institutes of Health (NIH)
- Office of Cybersecurity, Energy Security, and Emergency Response (CESER)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 1.2, below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 1.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

1.1 Provide Science and Technology Results with Meaningful Impact on the Field

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- Performance of the Laboratory with respect to proposed research plans;
- Performance of the Laboratory with respect to community impact and peer review; and
- Performance of the Laboratory with respect to impact to DOE (or other customer) mission needs.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Impact of publications on the field, as measured primarily by peer review;
- Impact of S&T results on the field, as measured primarily by peer review;
- Impact of S&T results outside the field indicating broader interest;
- Impact of S&T results on DOE or other customer mission(s);
- Successful stewardship of mission-relevant research areas;
- Delivery on proposed S&T plans;
- Significant awards (Nobel Prizes, R&D 100, FLC, etc.);
- Invited talks, citations, making high-quality data available to the scientific community; and
- Development of tools and techniques that become standards or widely-used in the scientific community.

Letter Grade	Definition
A+	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>significant research areas</i> for which the Laboratory <i>has exceeded the expectations</i> of the proposed research plans <i>in significant ways through creative, new, or unconventional methods that allow greater scientific reach than expected</i>. • S&T conducted at the Laboratory <i>has resolved one of the most critical questions in the field, or has changed the way the research community thinks about a particular field through paradigm shifting discoveries that would be considered the most influential discovery of the decade for that field</i>. • S&T conducted at the Laboratory <i>provided major advances that significantly accelerate DOE or other customer mission(s)</i>.
A	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>important examples</i> where the Laboratory <i>exceeded the expectations</i> of the proposed research plans <i>in significant ways through creative, new, or unconventional methods that allow greater scientific reach than expected</i>. • <i>All areas</i> of S&T conducted at the Laboratory are of <i>exceptional or outstanding</i> merit and quality. • S&T conducted at the Laboratory <i>has significant positive impact</i> to DOE or other customer missions.
A-	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>important examples</i> where the Laboratory <i>exceeded the expectations</i> of the proposed research plans. • <i>Significant areas</i> of S&T conducted at the Laboratory are of <i>exceptional or outstanding</i> merit and quality. • S&T conducted at the Laboratory <i>significantly impact</i> DOE or other customer missions.

Letter Grade	Definition
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> The Laboratory has successfully executed proposed research plans. S&T conducted at the Laboratory are of <i>high</i> scientific merit and quality. S&T conducted at the Laboratory <i>advance</i> DOE or other customer missions.
B	<ul style="list-style-type: none"> The Laboratory has successfully executed proposed research plans. S&T conducted at the Laboratory <i>advance</i> DOE or other customer missions. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> S&T conducted at the Laboratory are <i>not uniformly of high</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> OR <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
B-	The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons: <ul style="list-style-type: none"> The Laboratory has <i>failed to successfully execute</i> proposed research plans <i>but contingencies were in place such that no funding was or will be terminated.</i> OR S&T conducted at the Laboratory <i>does little to advance</i> DOE or other customer missions. <i>Significant areas of</i> S&T conducted at the Laboratory are <i>not of high</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> OR <i>the Laboratory do not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
C	The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons: <ul style="list-style-type: none"> <i>In several significant aspects,</i> the Laboratory <i>failed to deliver</i> on proposed research plans <i>using available resources such that some funding was or will be terminated</i> OR S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions. <i>Significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
D	The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons: <ul style="list-style-type: none"> <i>Multiple program elements at</i> the Laboratory <i>failed to deliver</i> on proposed research plans <i>using available resources such that significant funding was or will be terminated.</i> <i>Multiple significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i> S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions.
F	The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons: <ul style="list-style-type: none"> <i>Multiple program elements at</i> the Laboratory <i>failed to deliver</i> on proposed research plans <i>using available resources resulting in total termination of funding.</i> <i>Multiple significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities</i> OR <i>the Laboratory has been found to have engaged in gross scientific incompetence and/or scientific fraud.</i> S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions.

1.2 Provide Quality Leadership in Science and Technology that Advances Community Goals and DOE Mission Goals.

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- Innovativeness / Novelty of research ideas put forward by the Laboratory;
- Extent to which Laboratory staff members take on substantive or formal leadership roles in their community;
- Extent to which Laboratory staff members take on formal leadership roles in DOE, SC and/or other customer activities; and
- Extent to which Laboratory staff members contribute thoughtful and thorough peer reviews and other research assessments as requested by DOE, SC or other supporting customers.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.:

- Willingness to pursue novel approaches and/or demonstration of innovative solutions to problems;
- Willingness to take on high-risk/high payoff/long-term research problems, evidence that previous risky decisions by the PI/research staff have proved to be correct and are paying off;
- The uniqueness and challenge of science pursued, recognition for doing the best work in the field;
- Extent and quality of collaborative efforts;
- Staff members visible in leadership positions in the scientific community;
- Involvement in professional organizations, National Academies panels and workshops;
- Effectiveness in driving the direction and setting the priorities of the community in a research field; and
- Success in competition for resources.

Letter Grade	Definition
A+	<p>In addition to satisfying the conditions for B+, the following conditions hold for ALL Laboratory staff:</p> <ul style="list-style-type: none"> • Laboratory staff members have <i>leadership positions</i> in professional organizations AND <i>in National Academy or equivalent panels to discuss and determine further research directions</i>; • Laboratory staff members have <i>leadership positions</i> in DOE (or in other supporting agencies) sponsored workshops and strategic planning activities, for example, Laboratory staff members chair or co-chair DOE-sponsored or other supporting agency-sponsored workshops and strategic planning activities. • The Laboratory program consistently produces and submits competitive proposals that challenge convention and open <i>significant new fields</i> for research that are well aligned with DOE and/or other supporting agencies mission needs and <i>the Laboratory has a strong recognized role in setting priorities and driving the direction in key research areas and are internationally recognized leaders in the field.</i> • Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.
A	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • Laboratory staff members have <i>leadership positions</i> in professional organizations AND <i>staff has contributing role in National Academy or equivalent panels to discuss further research directions</i>; • Laboratory staff members have <i>leadership positions</i> in DOE and/or in other supporting agencies sponsored workshops and strategic planning activities. • The Laboratory program consistently produces and submits competitive proposals that challenge convention and open <i>significant new fields</i> for research that are well aligned with DOE or other supporting agency mission needs and <i>the Laboratory has a strong recognized role in setting priorities and driving the direction in key research areas.</i> • Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.

Letter Grade	Definition
A-	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> Laboratory staff members have <i>leadership positions</i> in professional organizations OR <i>staff has contributing role in National Academy or equivalent panels to discuss further research directions</i>; Laboratory staff members have <i>leadership positions</i> in DOE and/or other supporting agency-sponsored workshops and strategic planning activities. The Laboratory program consistently submits competitive proposals that challenge convention and open <i>significant</i> new avenues for research that are well aligned with DOE or other supporting agencies mission needs. Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.
B+	<p>The Laboratory has achieved each of the following objectives:</p> <ul style="list-style-type: none"> Laboratory staff members are <i>active participants</i> in professional organizations, committees, and activities, and take on leadership responsibilities commensurate with experience and expertise. Laboratory staff members are <i>active participants</i> in DOE and/or other supporting agencies-sponsored workshops and strategic planning activities. Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. The Laboratory program consistently provides competitive proposals that challenge convention and open new avenues for research that are well aligned with DOE or other supporting agencies mission needs. Laboratory staff are <i>active participants</i> in multi-institutional research collaborations
B	<ul style="list-style-type: none"> Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE and/or other supporting agencies. The Laboratory program consistently provides competitive proposals that challenge convention and open new avenues for research that are well aligned with DOE and/or other supporting agencies mission needs. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> Although <i>regular participants</i> in professional organizations, committees, and activities, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>regular participants</i> in DOE and/or other supported agencies sponsored workshops and strategic planning activities, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>active members</i> of multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>
B-	<ul style="list-style-type: none"> Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> The Laboratory program submits competitive proposals <i>but these either lack innovation or are not well aligned with DOE or other supporting agencies mission needs.</i> Laboratory staff are <i>infrequent participants</i> in professional organizations, committees, and activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Laboratory staff are <i>infrequent participants</i> in DOE or other supported agencies sponsored workshops and strategic planning activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>active members</i> of multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>

Letter Grade	Definition
C	<p>The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • Laboratory staff members <i>do not reliably</i> contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. • <i>Some areas of research, previously supported, are no longer competitive.</i> • Laboratory staff members are <i>infrequent participants</i> in professional organizations, committees, and activities, <i>AND the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> • Laboratory staff members are <i>infrequent participants</i> in DOE or other supported agencies sponsored workshops and strategic planning activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> • Although Laboratory staff members are <i>active members of</i> multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>
D	<p>The Laboratory fails to meet the conditions for B+ because <i>the Laboratory staff are working on problems that are no longer at the forefront of science and are considered mundane.</i></p>
F	<p>Review has found the Laboratory staff to be <i>guilty of gross scientific incompetence and/or scientific fraud.</i></p>

Notable Outcomes

- **BER:** Provide a report on accomplishments from the first operation year and future plans for the National Microbiome Data Collaborative. (Objective 1.1)
- **BER:** Provide a report on the scientific accomplishments from the second year of operations at the Joint BioEnergy Institute since the recent re-competition of the Bioenergy Research Centers. (Objective 1.1)
- **BES:** Deliver impactful science from the “Center for Novel Pathways to Quantum Coherence in Materials” Energy Frontier Research Center, as measured by the FY 2020 mid-term review and annual report, research publications and highlights, and participation in periodic conference calls. (Objective 1.1)
- **BES:** Deliver impactful science to advance the integrated research objectives for the Joint Center for Artificial Photosynthesis—as measured by the FY 2020 Progress Reports. (Objective 1.1)
- **BES:** Deliver impactful science to advance the integrated research objectives for the Joint Center for Energy Storage Research—as measured by the FY 2020 annual report, journal publications, data-related metrics, and the annual Review. (Objective 1.1)
- **BES:** Deliver impactful science to advance QIS research that emphasizes the unique role of BES in the LBNL program in “High-Coherence Multilayer Superconducting Structures for Large Scale Qubit Integration and Photonic Transduction” as evidenced by the FY 2020 annual report and the associated list of journal publications. (Objective 1.1)
- **HEP:** With the recent or upcoming transition of several programs in the Physics Division, it is timely for the lab to articulate a vision for the future of LBNL HEP. This plan should build on the

multi-program capabilities of the Laboratory as well as the particular expertise and leadership of lab staff. The draft plan should be delivered to the HEP office by March 2020. (Objective 1.1)

Program Office¹	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall ASCR Total				
Office of Basic Energy Sciences				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall BES Total				
Office of Biological and Environmental Research				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall BER Total				
Office of Fusion Energy Sciences				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall FES Total				
Office of High Energy Physics				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall HEP Total				
Office of Nuclear Physics				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall NP Total				
Office of Workforce Development for Teachers and Scientists				
1.1 Impact			80%	
1.2 Leadership			20%	
Overall WDTS Total				
Office of Cybersecurity, Energy Security, and Emergency Response				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall CESER Total				
Office of Electricity				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall OE Total				
Office of Energy Efficiency and Renewable Energy				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall EERE Total				
Office of Fossil Energy				

¹ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

1.1 Impact			50%	
1.2 Leadership			50%	
Overall FE Total				
Office of Defense Nuclear Nonproliferation				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall DNN Total				
National Institutes of Health				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall NIH Total				

Table 1.1 – Program Performance Goal 1.0 Score Development

Program Office ²	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Office of Workforce Development for Teachers and Scientists				
Office of Cybersecurity, Energy Security, and Emergency Response				
Office of Electricity				
Office of Energy Efficiency and Renewable Energy				
Office of Defense Nuclear Nonproliferation				
Office of Fossil Energy				
National Institutes of Health				
Performance Goal 1.0 Total				

Table 1.2 – Overall Performance Goal 1.0 Score Development²

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 1.3 – Goal 1.0 Final Letter Grade

² The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

GOAL 2.0 Provide for Efficient and Effective Design, Fabrication, Construction and Operations of Research Facilities

The Laboratory provides effective and efficient strategic planning; fabrication, construction and/or operations of Laboratory research facilities; and are responsive to the user community.

The weight of this Goal is TBD%.

The Provide for Efficient and Effective Design, Fabrication, Construction and Operations of Research Facilities Goal shall measure the overall effectiveness and performance of the Contractor in planning for and delivering leading-edge specialty research and/or user facilities to ensure that the required capabilities are present to meet today's and tomorrow's complex challenges. It also measures the Contractor's innovative operational and programmatic means for implementation of systems that ensures the availability, reliability, and efficiency of these facilities; and the appropriate balance between R&D and user support.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Office as identified below. The Goal score from each Program Office is computed by multiplying each Objective numerical score by the associated weight assigned by that Office, and summing them (see Table 2.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 2.2 below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 2.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by DOE HQ Office of Science's (SC) Program Offices for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

2.1 Provide Effective Facility Design(s) as Required to Support Laboratory Programs (i.e., activities leading up to CD-2)

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's delivery of accurate and timely information required to carry out the critical decision and budget formulation process;

- The Laboratory’s ability to meet the intent of DOE Order 413.3, Program and Project Management for the Acquisition of Capital Assets;
- The extent to which the Laboratory appropriately assesses risks and contingency needs; and
- The extent to which the Laboratory is effective in its unique management role and partnership with HQ.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- The quality of the scientific justification for proposed facilities resulting from preconceptual R&D;
- The technical quality of conceptual and preliminary designs and the credibility of the associated cost estimates;
- The credibility of plans for the full life cycle of proposed facilities including financing options;
- The leveraging of existing facilities and capabilities of the DOE Laboratory complex in plans for proposed facilities; and
- The novelty and potential impact of new technologies embodied in proposed facilities.

Letter Grade	Definition
A+	In addition to satisfying all conditions for B+; the Laboratory <i>exceeds expectations</i> in <i>all</i> of these categories: <ul style="list-style-type: none"> • The Laboratory is recognized by the research community as the leader for making the science case for the acquisition; • The Laboratory takes the initiative to demonstrate and thoroughly document the potential for transformational scientific advancement. • Approaches proposed by the Laboratory are widely regarded as innovative, novel, comprehensive, and potentially cost-effective. • Reviews repeatedly confirm strong potential for scientific discovery in areas that support the Department’s mission, and potential to change a discipline or research area’s direction. • The Laboratory identifies, analyzes and champions novel approaches for acquiring the new capability, including leveraging or extending the capability of existing facilities and financing and these efforts result in significant cost estimate and/or risk reductions without loss or, or while enhancing capability.
A	In addition to satisfying all conditions for B+, <i>all</i> of the following conditions are also met: <ul style="list-style-type: none"> • The Laboratory is recognized by the research community as a leader for making the science case for the acquisition; • The Laboratory takes the initiative to demonstrate the potential for revolutionary scientific advancement working in partnership with HQ • The Laboratory identifies, analyzes, and champions, to HQ and Site office, novel approaches for acquiring the new capability, including leveraging or extending the capability of existing facilities and financing.
A-	In addition to satisfying all conditions for B+, <i>all</i> of the following conditions are also met: <ul style="list-style-type: none"> • The approaches proposed by the Laboratory are widely regarded as innovative, novel, comprehensive, and potentially cost-effective • Reviews repeatedly confirm potential for scientific discovery in areas that support the Department’s mission, and potential to change a discipline or research area’s direction.

Letter Grade	Definition
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • The Laboratory displays leadership and commitment in the development of quality analyses, preliminary designs, and related documentation to support the approval of the mission need (CD-0), the alternative selection and cost range (CD-1) and the performance baseline (CD-2). • Documentation requested by the programs is provided in a timely and thorough manner. • The Laboratory keeps DOE apprised of the status, near-term plans and the resolution of problems on a regular basis; anticipates emerging issues that could impact plans and takes the initiative to inform DOE of possible consequences. • The Laboratory solves problems and addresses issues to avoid adverse impacts to the project.
B	The Laboratory fails to meet expectations in one of the areas listed under B+.
B-	The Laboratory fails to meet expectations in several of the areas listed under B+
C	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the required analyses and documentation developed by the Laboratory are EITHER not innovative, OR reflect a lack of commitment and leadership.
D	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the Laboratory fails to provide a compelling justification for the acquisition.
F	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the approaches proposed by the Laboratory are based on fraudulent assumptions; the science case is weak to non-existent, and the business case is seriously flawed.

2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components (execution phase, post CD-2 to CD-4)

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's adherence to DOE Order 413.3 Project Management for the Acquisition of Capital Assets;
- Successful fabrication of facility components by the Laboratory;
- The Laboratory's effectiveness in meeting construction schedule and budget;
- The quality of key Laboratory staff overseeing the project(s); and
- The extent to which the Laboratory maintains open, effective, and timely communication with HQ regarding issues and risks.

Letter Grade	Definition
A+	In addition to satisfying all conditions for A, <ul style="list-style-type: none"> • There is high confidence throughout the execution phase that the project will be completed <i>significantly</i> under budget and/or ahead of schedule while meeting or exceeding all performance baselines;
A	In addition to satisfying all conditions for B+, <ul style="list-style-type: none"> • The Laboratory has identified and implemented practices that would allow the project scope to be <i>significantly expanded</i> if such were desirable, without impact on baseline cost or schedule; • The Laboratory <i>always</i> provides <i>exemplary</i> project status reports on time to DOE and takes the initiative to communicate emerging problems or issues. • Reviews identify environment, safety and health practices to be <i>exemplary</i>. • There is high confidence throughout the execution phase that the project will meet its cost/schedule performance baseline;

Letter Grade	Definition
A-	In addition to satisfying all conditions for B+, <ul style="list-style-type: none"> • The Laboratory has identified practices that would allow for the project scope to be expanded if such were desirable, without impact on baseline cost or schedule; • Problems are identified and corrected by the Laboratory promptly, with no impact on scope, cost or schedule • The Laboratory provides <i>particularly useful</i> project status reports on time to DOE and regularly takes the initiative to communicate emerging problems or issues. • Reviews identify environment, safety and health practices to <i>exceed expectations</i>. • There is high confidence throughout the execution phase that the project will meet its cost/schedule performance baseline;
B+	The Laboratory has achieved each of the following objectives <ul style="list-style-type: none"> • The project meets CD-2 performance measures; • The Laboratory provides sustained leadership and commitment to environment, safety and health; • Reviews regularly recognize the Laboratory for being proactive in the management of the execution phase of the project; • To a large extent, problems are identified and corrected by the Laboratory with little, or no impact on scope, cost or schedule; • DOE is kept informed of project status on a regular basis; reviews regularly indicate project is expected to meet its cost/schedule performance baseline.
B	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT <ul style="list-style-type: none"> • The project fails to meet expectations in <i>one</i> of the remaining areas listed under B+.
B-	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT <ul style="list-style-type: none"> • The project fails to meet expectations in <i>several</i> of the areas listed under B+
C	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT The project fails to meet expectations in <i>several</i> of the areas listed under B+ AND <ul style="list-style-type: none"> • Reviews indicate project remains at risk of breaching its cost/schedule performance baseline; • Reports to DOE can vary in degree of completeness
D	The project fails to meet conditions for B+ in at least one of the following areas: <ul style="list-style-type: none"> • Reviews indicate project is likely to breach its cost/schedule performance baseline; • Laboratory commitment to environment, safety and health issues is inadequate; • Reports to DOE are largely incomplete; Laboratory commitment to the project has subsided.
F	The project fails to meet conditions for B+ in at least one of the following areas: <ul style="list-style-type: none"> • Laboratory falsifies data during project execution phase; • Shows disdain for executing the project within minimal standards for environment, safety or health, • Fails to keep DOE informed of project status; • Recent reviews indicate that the project is expected to breach its cost/schedule performance baseline.

2.3 Provide Efficient and Effective Operation of Facilities

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The availability, reliability, performance, and efficiency of Laboratory facility(ies);
- The degree to which the facility is optimally arranged to support the user community;
- The extent to which Laboratory R&D is conducted to develop/expand the capabilities of the facility(ies);

- The Laboratory's effectiveness in balancing resources between facility R&D and user support; and
- The quality of the process used to allocate facility time to users.

Letter Grade	Definition
A+	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are also met <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in all of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>significantly less</i> than planned and are acknowledged to be 'leadership caliber' by reviews; • Data on environment, safety, and health continues to be exemplary and widely regarded as among the 'best in class' • The Laboratory took extraordinary means to deliver an extraordinary result for the users and the program in the performance/ review period.
A	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are also met <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in most of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>less</i> than planned and are acknowledged to be 'leadership caliber' by reviews; • Data on environment, safety, and health continues to be <i>exemplary</i> and widely regarded as among the 'best in class.'
A-	In addition to satisfying all conditions for B+, <i>one</i> of the following conditions is met: <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in any of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>less</i> than planned and are acknowledged to be among the best by reviews;
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • Performance of the facility <i>meets</i> expectations as defined before the start of the year in all of these categories: cost of operations, users served, availability, capability (for example, beam delivery, luminosity, peak performance, etc), • The schedule and the costs associated with the ramp-up to steady state operations occur as planned; • Data on environment, safety, and health continues to be very good as compared with other projects in the DOE. • User surveys meet program expectations and reflect that the Laboratory is responsive to user needs.
B	The project fails to meet expectations in <i>one</i> of the areas listed under B+.
B-	The project fails to meet expectations in <i>more than one</i> of the areas listed under B+.
C	Performance of the facility fails to meet expectations in <i>many</i> of the areas listed under B+; for example, <ul style="list-style-type: none"> • The cost of operations is unexpectedly high and availability of the facility is unexpectedly low, the number of users is unexpectedly low, capability is well below expectations. • The facility operates at steady state, on cost and on schedule, but the reliability of performance is somewhat below planned values, or the facility operates at steady state, but the associated schedule and costs exceed planned values. • Commitment to environment, safety, and health is satisfactory.
D	Performance of the facility fails to meet expectations in <i>many</i> of the areas listed under B+; for example, <ul style="list-style-type: none"> • The cost of operations is unexpectedly high and availability of the facility is unexpectedly low; capability is well below expectations. • The facility operates somewhat below steady state, on cost and on schedule, and the reliability of performance is somewhat below planned values, or the facility operates at steady state, but the associated schedule and costs exceed planned values. • Commitment to environment, safety, and health is inadequate.

Letter Grade	Definition
F	<ul style="list-style-type: none"> The facility fails to operate; the facility operates well below steady state and/or the reliability of the performance is well below planned values. Laboratory commitment to environment, safety, and health issues is inadequate.

2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The extent to which the facility is being used to perform influential science;
- The Laboratory's efforts to take full advantage of the facility to generate impactful S&T results;
- The extent to which the facility is strengthened by a resident Laboratory research community that pushes the envelope of what the facility can do and/or are among the scientific leaders of the community;
- The Laboratory's ability to appropriately balance access by internal and external user communities; and
- The extent to which there is a healthy program of outreach to the scientific community.

Letter Grade	Definition
A+	In addition to meeting all measures under A, <ul style="list-style-type: none"> The Laboratory took extraordinary means to deliver an extraordinary result for a new user community.
A	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are met <ul style="list-style-type: none"> An <i>aggressive</i> outreach programs is in place and has been documented as attracting new communities to the facility; Reviews consistently find that the facility capability or scope of research potential <i>significantly</i> exceeds expectations for example, due to newly discovered capabilities or exposure to new research communities; OR Reviews find that multiple disciplines are using the facility in new and novel ways that the facility is being used to pursue influential science.
A-	In addition to satisfying all conditions for B+, all of the following conditions are met <ul style="list-style-type: none"> A <i>strong</i> outreach program is in place; Reviews find that the facility capability or scope of research potential exceeds expectations for example, due to newly discovered capabilities or exposure to new research communities; OR Reviews document how multiple disciplines are using the facility in new and novel ways and/or that the facility is being used to pursue important science.
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> Reviews find / validate that the facility is being used for influential science; The scope of facility capabilities is challenged and broadened by resident users; The Laboratory effectively manages user allocations; The Laboratory effectively maintains the facility to required performance standards (for example, runtime, luminosity, etc.) A healthy outreach program is in place.
B	The Laboratory fails to meet expectations in <i>one</i> of the areas listed under B+
B-	The Laboratory fails to meet expectations in <i>several</i> of the areas listed under B+
C	The Laboratory fails to meet expectations in <i>many</i> of the areas listed under B+
D	Reviews find that there are few facility users, few of whom are using the facility in novel ways to produce impactful science; research base is very thin.
F	Laboratory staff does not possess capabilities to operate and/or use the facility adequately.

Notable Outcomes

- **ASCR:** LBNL management should ensure that ESnet 6 is ready for a successful CD-2 review in FY 2020. (Objective 2.1)
- **BES:** Execute the ALS-U project scope in compliance with the technical performance specifications and within the established DOE performance goals for cost and schedule. Performance will be assessed based on the work planned and accomplished during FY 2020, not on the cumulative performance of the project. (Objective 2.1)
- **BES:** Execute the assigned LCLS-II project scope in compliance with the technical performance specifications and within the established DOE performance goals for cost and schedule. Performance will be assessed based on the work planned and accomplished during FY 2020, not on the cumulative performance of the project. (Objective 2.2)
- **FES:** Successfully carry out two LaserNetUS experiments with the present intensities and one High Energy Density experiment with the upgraded laser at an intensity exceeding 1020 W/cm². (Objective 2.3)
- **NP:** Develop a plan to restore the 88 inch cyclotron cooling tower to reliable long-term operations. (Objective 2.3)

Program Office³	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
2.1 Provide Effective Facility Design(s)			20%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			30%	
2.3 Provide Efficient and Effective Operation of Facilities			40%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			10%	
Overall ASCR Total				
Office of Basic Energy Sciences				
2.1 Provide Effective Facility Design(s)			30%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			5%	
2.3 Provide Efficient and Effective Operation of Facilities			35%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			30%	
Overall BES Total				
Office of Biological and Environmental Research				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			90%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			10%	

³ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

Program Office ³	Letter Grade	Numerical Score	Weight	Overall Score
Overall BER Total				
Office of Fusion Energy Sciences				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			60%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			40%	
Overall FES Total				
Office of High Energy Physics				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			100%	
2.3 Provide Efficient and Effective Operation of Facilities			0%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			0%	
Overall HEP Total				
Office of Nuclear Physics				
2.1 Provide Effective Facility Design(s)			35%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			35%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			30%	
Overall NP Total				

Table 2.1 – Program Performance Goal 2.0 Score Development

Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Performance Goal 2.0 Total				

Table 2.2 – Overall Performance Goal 2.0 Score Development⁴

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 2.3 – Goal 2.0 Final Letter Grade

⁴ The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

GOAL 3.0 Provide Effective and Efficient Science and Technology Program Management

The Laboratory provides effective program vision and leadership; strategic planning and development of initiatives; recruits and retains a quality scientific workforce; and provides outstanding research processes, which improve research productivity.

The weight of this Goal is 25%.

The Provide Effective and Efficient Science and Technology Program Management Goal shall measure the Contractor's overall management in executing S&T programs. Dimensions of program management covered include: 1) providing key competencies to support research programs to include key staffing requirements; 2) providing quality research plans that take into account technical risks, identify actions to mitigate risks; and 3) maintaining effective communications with customers to include providing quality responses to customer needs.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers as identified below. The Goal score from each HQ Program Office and/or customer is computed by multiplying each Objective numerical score by the associated weight assigned by that Office/customer, and summing them (see Table 3.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)
- Office of Workforce Development for Teachers and Scientists (WDTS)
- Office of Cybersecurity, Energy Security, and Emergency Response (CESER)
- Office of Electricity (OE)
- Office of Energy Efficiency and Renewable Energy (EERE)
- Office of Defense Nuclear Nonproliferation (DNN)
- Office of Fossil Energy (FE)
- National Institutes of Health (NIH)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 3.2 below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 3.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

3.1 Provide Effective and Efficient Strategic Planning and Stewardship of Scientific Capabilities and Program Vision

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The quality of the Laboratory’s strategic plan;
- The extent to which the Laboratory shows strategic vision for research;
- The extent to which programs of research take advantage of Laboratory capabilities—research programs are more than the sum of their individual project parts;
- The extent to which the Laboratory undertakes research for which it is uniquely qualified;
- The extent to which lab plans are aligned with DOE or other supporting agency mission goals;
- The extent to which the Laboratory programs are balanced between high-/low- risk research for a sustainable program; and
- The extent to which the Laboratory is able to retain and recruit staff for a sustainable program.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Articulation of scientific vision;
- Development and maintenance of core competencies;
- Ability to attract and retain highly qualified staff;
- Efficiency and effectiveness of joint planning (e.g., workshops) with outside community;
- Creativity and robustness of ideas for new facilities and research programs;
- Willingness to take on high-risk/high payoff/long-term research problems, evidence that the Laboratory “guessed right” in that previous risky decisions proved to be correct and are paying off; and
- The depth and breadth of Laboratory research portfolio and its potential for growth.

Letter Grade	Definition
A+	In addition to satisfying the conditions for B+, the execution of the Laboratory’s strategic plan has enabled the Laboratory to achieve each of the following: <ul style="list-style-type: none"> • <i>Most</i> of the Laboratory’s core competencies are recognized as world leading; • The Laboratory has attracted and retained world-leading scientists in <i>most</i> programs; • There is evidence that previous decisions to pursue high-risk/high-payoff research proved to be correct and are paying off; • The Laboratory has succeeded in developing new core competencies of <i>outstanding</i> quality in areas both exploratory, high-risk research and research that is vital to the DOE/SC or other supporting department or agency missions;
A	In addition to satisfying the conditions for B+, the execution of the Laboratory’s strategic plan has enabled the Laboratory to achieve the following: <ul style="list-style-type: none"> • <i>Several</i> of the Laboratory’s core competencies are recognized as world leading; • The Laboratory has attracted and retained world-leading scientists in <i>several</i> programs; • There is evidence that previous decisions to pursue high-risk/high-payoff research proved to be correct and are paying off • The Laboratory has succeeded in developing <i>new</i> core competencies of <i>high</i> quality in areas both exploratory, high-risk research and research that is vital to the DOE/SC/other supporting departments or agency missions.

Letter Grade	Definition
A-	In addition to satisfying the conditions for B+, the execution of the Laboratory's strategic plan has enabled the Laboratory to achieve at least one of the following: <ul style="list-style-type: none"> • At least one of the Laboratory's core competencies is recognized as <i>world-leading</i>; • The Laboratory has attracted and retained <i>world-leading</i> scientists in one or more programs; • The Laboratory has a coherent plan for addressing future workforce challenges.
B+	The execution of the Laboratory's strategic plan has enabled the Laboratory to achieve each of the following objectives: <ul style="list-style-type: none"> • The Laboratory has articulated a coherent and compelling strategic plan that has been developed with input from external research communities and headquarters guidance, which, where appropriate, includes a coherent plan for building smaller research programs into new core competencies; and reallocates resources away from less effective programs. • The Laboratory has demonstrated the ability to attract and retain professional scientific staff in support of its strategic vision. • The portfolio of Laboratory research balances the needs for both high-risk/ high-payoff research and stewardship of mission-critical research. • The Laboratory's research portfolio takes advantage of unique capabilities at the Laboratory. • The Laboratory's research portfolio includes activities for which the Laboratory is uniquely capable.
B	The Laboratory fails to satisfy one of the conditions for B+; for example <ul style="list-style-type: none"> • The Laboratory's strategic plan is only <i>partially</i> coherent and is not entirely well-connected with external communities; • The portfolio of Laboratory research does <i>not</i> appropriately balance high-risk/ high-payoff research and stewardship of mission-critical research; • The Laboratory has developed and maintained <i>some, but not all</i>, of its core competencies. • The plan to attract and retain professional scientific staff is <i>lacking</i> strategic vision.
B-	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, including at least one of the following: <ul style="list-style-type: none"> • Weak programmatic vision insufficiently connected with external communities; • Development and maintenance of only a few core competencies • Little attention to maintaining the correct balance between high-risk and mission-critical research; • Inability to attract and retain talented scientists in some programs.
C	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, including at least one of the following reasons: <ul style="list-style-type: none"> • The Laboratory's strategic plan lacks strategic vision and lacks appropriate coordination with appropriate stakeholders including external research groups. • The Laboratory's strategic plan does not provide for sufficient maintenance of core competencies • Plan to attract and retain professional scientific staff is unlikely to be successful or does not focus on strategic capabilities.
D	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, and specifically <ul style="list-style-type: none"> • The Laboratory has demonstrated little effort in developing a strategic plan. • The Laboratory has done little to develop and maintain core competencies • The Laboratory has had minimal success in attracting and retaining professional scientific staff.
F	The Laboratory has: <ul style="list-style-type: none"> • Made limited or ineffective attempts to develop a strategic plan; • Not demonstrated the ability to develop and maintain core competencies, has failed to propose high-risk/high-reward research and has failed to steward mission-critical areas; • Failed to attract even reasonably competent scientists and technical staff.

3.2 Provide Effective and Efficient Science and Technology Project/Program/Facilities Management

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's management of R&D programs and facilities according to proposed plans;
- The extent to which the Laboratory's management of projects/programs/facilities supports the Laboratory strategic plan;
- Adequacy of the Laboratory's consideration of technical risks;
- The extent to which the Laboratory is successful in identifying/avoiding technical problems;
- Effectiveness in leveraging across multiple areas of research and between research and facility capabilities;
- The extent to which the Laboratory demonstrates a willingness to make tough decisions (i.e., cut programs with sub-critical mass of expertise, divert resources to more promising areas, etc.); and
- The use of LDRD and other Laboratory investments and overhead funds to improve the competitiveness of the Laboratory.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Laboratory plans that are reviewed by experts outside of lab management and/or include broadly-based input from within the Laboratory.

Letter Grade	Definition
A+	In addition to meeting the all expectations under A, <ul style="list-style-type: none"> • The Laboratory has taken extraordinary measures to deliver an extraordinary result of critical importance to DOE or other relevant supporting agency missions, which could include the delivery of a critical technology or insight in response to a National emergency
A	In addition to satisfying the conditions for B+, <ul style="list-style-type: none"> • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations that exceed program expectations in <i>several</i> programmatic areas. Examples are listed under A-.

Letter Grade	Definition
A-	<p>In addition to satisfying the conditions for B+,</p> <ul style="list-style-type: none"> • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations that exceed program expectations in <i>more than one</i> programmatic area. Examples of performance that exceeds expectations include: • The Laboratory's implementation of project/program/facility plans has led directly to significant cost savings and/or significantly higher productivity than expected; • Project/program/facility plans prove to be robust against changing scientific and fiscal conditions through contingency planning; • The Laboratory has demonstrated creativity and forceful leadership in development and/or proactive management of its project/program/facility plans to reduce or eliminate risk; • The Laboratory's proposals for new initiatives are funded through reallocation of resources from less effective programs. • Research plans and management actions are proactive, not reactive, as evidenced by making hard decisions and taking strong actions; and • Management is prepared for budget fluctuations and changes in DOE or other supporting agency program priorities – multiple contingencies are planned for; and • LDRD investments, overhead funds, and other Laboratory funds are used to strengthen lab plans and fill critical gaps in the Laboratory portfolio enabling it to respond to future DOE or other relevant supporting agency initiatives and/or national emergencies.
B+	<p>The Laboratory has achieved each of the following objectives:</p> <ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • Project/program/facility plans are consistent with known budgets, are based on reasonable assessments of technical risk, are well-aligned with DOE or other relevant supporting agency interests, provide sufficient flexibility to respond to unforeseen directives and opportunities, and effectively leverage other Laboratory resources and expertise. • The Laboratory has implemented the project/program/facility plans and has effective methods of tracking progress. • The Laboratory demonstrates willingness to make tough decisions (i.e., cut programs with sub-critical mass of expertise, divert resources to more promising areas, etc.). • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations. • LDRD investments and other overhead funds are managed appropriately.
B	<ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • The Laboratory has implemented the project/program/facility plans. <p>BUT the Laboratory fails to meet <i>at least one of</i> the conditions for B+.</p>
B-	<ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • The Laboratory has implemented the project/program/facility plans. <p>BUT the Laboratory fails to meet <i>several of</i> the conditions for B+.</p>
C	<ul style="list-style-type: none"> • Project/program/facility plans exist for most major projects/programs/facilities. <p>BUT the Laboratory has failed to implement the project/program/facility plans AND the Laboratory fails to meet <i>several of</i> the conditions for B+.</p>
D	<ul style="list-style-type: none"> • Project/program/facility plans do not exist for a significant fraction of the Laboratory's major projects/programs/facilities; OR • Significant work at the Laboratory is not in alignment with the project/program/facility plans
F	The Laboratory has failed to conduct project/program/facility planning activities.

3.3 Provide Efficient and Effective Communications and Responsiveness to Headquarters Needs

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The quality, accuracy and timeliness of the Laboratory's response to customer requests for information;
- The extent to which the Laboratory provides point-of-contact resources and maintains effective internal communications hierarchies to facilitate efficient determination of the appropriate point-of-contact for a given issue or program element;
- The effectiveness of the Laboratory's communications and depth of responsiveness under extraordinary or critical circumstances; and
- The effectiveness of Laboratory management in accentuating the importance of communication and responsiveness.

Letter Grade	Definition
A+	In addition to meeting the all expectations under A, <ul style="list-style-type: none"> • The Laboratory's effective communication and extraordinary responsiveness in the face of extreme situations or a national emergency had a materially positive impact on the outcome of the event and/or DOE or other relevant supporting agency's mission objectives
A	In addition to satisfying the conditions for B+, the Laboratory also meets all of the following: <ul style="list-style-type: none"> • Laboratory management has instilled a culture throughout the lab that emphasizes good communication practices; • Communication channels are well-defined and information is effectively conveyed; • Responses to HQ requests for information from all Laboratory representatives are prompt, thorough, correct and succinct; important or critical information is delivered in real-time; • Laboratory representatives <i>always</i> initiate a communication with HQ on emerging Laboratory issues; headquarters is never surprised to learn of emerging Laboratory issues through outside channels.
A-	In addition to satisfying the conditions for B+, <ul style="list-style-type: none"> • Laboratory management has instilled a culture throughout the lab that emphasizes good communication practices; • Responses to requests for information are prompt, thorough, and economical/succinct at all levels of interaction; • Laboratory representatives <i>often</i> initiate communication with HQ on emerging Laboratory issues; and • under critical circumstances, essential information is delivered in real-time
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • Staff throughout the Laboratory organization engage in good communication practices; • Responses to requests for information are prompt and thorough; • The accuracy and integrity of the information provided is never in doubt; • Up-to-date point-of-contact information is widely available for all programmatic areas; and • Headquarters is always and promptly informed of both positive and negative events at the Laboratory
B	The Laboratory failed to meet the conditions for B+ <i>in a few instances</i>
B-	The Laboratory fails to meet the conditions for B+ for <i>one</i> of the following reasons: <ul style="list-style-type: none"> • Responses to requests for information do not provide the minimum requirements to meet HQ needs; While the integrity of the information provided is never in doubt, its accuracy sometimes is; • Laboratory representatives do not take the initiative to alert HQ to emerging Laboratory issues.

Letter Grade	Definition
C	The Laboratory fails to meet the conditions for B+ for <i>one or more</i> of the following reasons: <ul style="list-style-type: none"> • Responses to requests for information frequently fail to provide the minimum requirements to meet HQ needs • The Laboratory used outside channels or circumvented HQ in conveying critical information; • The integrity and/or accuracy of information provided is sometimes in doubt; • Laboratory management fails to demonstrate that its employees are held accountable for ensuring effective communication and responsiveness; • Laboratory representatives failed to alert HQ to emerging Laboratory issues.
D	The Laboratory fails to meet the conditions for B+ for one of the following reasons: <ul style="list-style-type: none"> • Laboratory staff are generally well-intentioned in communication but consistently ineffective and/or incompetent; • The Laboratory management fails to emphasize the importance of effective communication and responsiveness
F	The Laboratory fails to meet the conditions for B+ for one of the following reasons <ul style="list-style-type: none"> • Laboratory staff are openly hostile and/or non-responsive to requests for information – emails and phone calls are consistently ignored; • Responses to requests for information are consistently incorrect, inaccurate or fraudulent – information is not organized, is incomplete, or is fabricated.

Notable Outcomes

- **ASCR:** Continue to be full members in executing the Department's Exascale Computing Project to include providing experienced staff, facilities engagement, and the intellectual engagement of the Laboratory leadership and particularly in preparing for the CD-2 review in FY 2020. (Objective 3.1)
- **ASCR:** Ensure that all communications related to Exascale, including the project and the Departmental cross-cut program, between LBNL and SC, DOE, vendors, the Administration and Congress are aligned with DOE/ASCR goals, strategies and guidance. (Objective 3.3)
- **BER:** Complete the move of the Systems Biology Knowledgebase and the Joint Genome Institute to the Integrative Genomics Building. (Objective 3.2)
- **BES:** Develop a strategic plan for the chemical sciences, geosciences, and biosciences research portfolio supported by BES-CSGB. The plan should articulate how an integrated portfolio is managed across LBNL organizations and the prioritization of areas for future emphasis, recognizing the evolving portfolio and budget. (Objective 3.1)
- **BES:** Successfully execute the search and selection of the Molecular Foundry Facility Director by September 30, 2020. (Objective 3.2)
- **HEP:** By May 2020, develop a resource management plan for Accelerator Technology and Applied Physics for the next several years, including a diverse S&T workforce, commissioning and M&O of new and ongoing experiments, infrastructure improvements, and a draft science plan that articulates a vision for the future of Advanced Accelerator R&D at LBNL. This plan should build on the multi-program capabilities of the Laboratory as well as the particular expertise and leadership of lab staff, and take advantage of the Laboratory's position in the national AARD program. (Objective 3.2)

Program Office⁵	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall ASCR Total				
Office of Basic Energy Sciences				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall BES Total				
Office of Biological and Environmental Research				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			50%	
Overall BER Total				
Office of Fusion Energy Sciences				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			40%	
Overall FES Total				
Office of High Energy Physics				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			45%	
3.3 Communications and Responsiveness			25%	
Overall HEP Total				
Office of Nuclear Physics				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall NP Total				
Office of Workforce Development for Teachers and Scientists				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			50%	
3.3 Communications and Responsiveness			30%	
Overall WDTS Total				
Office of Cybersecurity, Energy Security, and Emergency Response				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			45%	

⁵ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

Program Office⁵	Letter Grade	Numerical Score	Weight	Overall Score
3.3 Communications and Responsiveness			35%	
Overall CESER Total				
Office of Electricity				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			45%	
3.3 Communications and Responsiveness			35%	
Overall OE Total				
Office of Energy Efficiency and Renewable Energy				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			50%	
Overall EERE Total				
Office of Defense Nuclear Nonproliferation				
3.1 Effective and Efficient Strategic Planning and Stewardship			58%	
3.2 Project/Program /Facilities Management			21%	
3.3 Communications and Responsiveness			21%	
Overall DNN Total				
Office of Fossil Energy				
3.1 Effective and Efficient Strategic Planning and Stewardship			34%	
3.2 Project/Program /Facilities Management			33%	
3.3 Communications and Responsiveness			33%	
Overall FE Total				
National Institutes of Health				
3.1 Effective and Efficient Strategic Planning and Stewardship			50%	
3.2 Project/Program /Facilities Management			50%	
3.3 Communications and Responsiveness			0%	
Overall NIH Total				

Table 3.1 – Program Performance Goal 3.0 Score Development

HQ Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Office of Workforce Development for Teachers and Scientists				
Office of Defense Nuclear Nonproliferation				
Office of Cybersecurity, Energy Security, and Emergency Response				
Office of Electricity				
Office of Energy Efficiency and Renewable Energy				

HQ Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Fossil Energy				
National Institutes of Health				
Performance Goal 3.0 Total				

Table 3.2 – Overall Performance Goal 3.0 Score Development⁶

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 3.3 – Goal 3.0 Final Letter Grade

⁶. The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

Attachment I

Program Office Goal & Objective Weightings Office of Science

	ASCR	BER	BES	FES	HEP	NP
	Weight	Weight	Weight	Weight	Weight	Weight
Goal 1.0 Mission Accomplishment						
1.1 Impact	50%	60%	50%	50%	50%	50%
1.2 Leadership	50%	40%	50%	50%	50%	50%
Goal 2.0 Design, Fabrication, Construction and Operation of Facilities						
2.1 Design of Facility (the initiation phase and the definition phase, i.e. activities leading up to CD-2)	20%	0%	30%	0%	0%	35%
2.2 Construction of Facility / Fabrication of Components (execution phase, Post CD-2 to CD-4)	30%	0%	5%	0%	100%	0%
2.3 Operation of Facility	40%	90%	35%	60%	0%	35%
2.4 Utilization of Facility to Grow and Support Lab's Research Base and External User Community	10%	10%	30%	40%	0%	30%
Goal 3.0 Program Management						
3.1 Effective and Efficient Strategic Planning and Stewardship	30%	20%	30%	30%	30%	30%
3.2 Project/Program/Facilities Management	40%	30%	40%	30%	45%	40%
3.3 Communications and Responsiveness	30%	50%	30%	40%	25%	30%

Attachment I

Program Office Goal & Objective Weightings All Other Customers⁷

	CESER	EERE	DNN	FE	WDTS	OE	NIH
	Weight	Weight	Weight	Weight	Weight	Weight	Weight
Goal 1.0 Mission Accomplishment							
1.1 Impact	50%	60%	60%	50%	80%	50%	50%
1.2 Leadership	50%	40%	40%	50%	20%	50%	50%
Goal 3.0 Program Management							
3.1 Effective and Efficient Strategic Planning and Stewardship	20%	20%	58%	34%	20%	20%	50%
3.2 Project/Program/Facilities Management	45%	30%	21%	33%	50%	45%	50%
3.3 Communications and Responsiveness	35%	50%	21%	33%	30%	35%	0%

⁷ Objective weightings indicated for non-science customers are reflective of FY 2020 weightings and will be updated as those customers provide their weightings. Final Objective weightings will be incorporated, as appropriate, once they are determined by each HQ Program Office and provided to the Site Office. Should a HQ Program Office fail to provide final Objective weightings before the end of the first quarter FY 2020 the preliminary weightings provided shall become final.

GOAL 4.0 Provide Sound and Competent Leadership and Stewardship of the Laboratory

This Goal evaluates the Contractor’s Leadership capabilities in leading the direction of the overall Laboratory, the responsiveness of the Contractor to issues and opportunities for continuous improvement, and corporate office involvement/commitment to the overall success of the Laboratory.

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in overall Contractor Leadership’s planning for, integration of, responsiveness to and support for the overall success of the Laboratory. This may include, but is not limited to, the quality of Laboratory Vision/Mission strategic planning documentation and progress in realizing the Laboratory vision/mission; the ability to establish and maintain long-term partnerships/relationships with the scientific and local communities as well as private industry that advance, expand, and benefit the ongoing Laboratory mission(s) and/or provide new opportunities/capabilities; implementation of a robust assurance system; Laboratory Leadership’s ability to facilitate and effectively manage external engagements and partnerships; Laboratory and Corporate Office Leadership’s ability to instill responsibility and accountability down and through the entire organization; overall effectiveness of communications with DOE; understanding, management and allocation of the costs of doing business at the Laboratory commensurate with associated risks and benefits; utilization of corporate resources to establish joint appointments or other programs/projects/activities to strengthen the Laboratory; and advancing excellence in stakeholder relations to include good corporate citizenship within the local community.

Objectives:

4.1 Leadership and Stewardship of the Laboratory

By which we mean: The performance of the laboratory’s senior management team as demonstrated by their ability to do such things as:

- Define an exciting yet realistic scientific vision for the future of the laboratory,
- Make progress in realizing the vision for the laboratory,
- Establish and maintain long-term partnerships/relationships that maintain appropriate relations with the scientific and local communities, and
- Develop and leverage appropriate relations with private industry to the benefit of the laboratory and the U.S. taxpayer.

Letter Grade	Definition
A+	The Senior Leadership of the laboratory has made outstanding progress (on an order of magnitude scale) over the previous year in realizing their vision for the laboratory, and has had a demonstrable impact on the Department and the Nation. Strategic plans are of outstanding quality, have been externally recognized and referenced for their excellence, and have an impact on the vision/plans of other national laboratories. The Senior leadership of the laboratory may have been faced very difficult challenges and plotted, successfully, its own course through the difficulty, with minimal hand-holding by the Department. Partners in the scientific and local communities applaud the laboratory in national fora, and the Department is strengthened by this.

Letter Grade	Definition
A	The Senior Leadership of the laboratory has made significant progress over the previous year in realizing their vision for the laboratory, and has through this has had a demonstrable positive impact on the Office of Science and the Department. Strategic plans are of outstanding quality, and recognize and reflect the vision/plans of other national laboratories. Faced with difficult challenges, actions were taken by the Senior leadership of the laboratory to redirect laboratory activities to enhance the long-term future of the laboratory. Partners in the scientific and local communities applaud the laboratory in national fora, and the Department is strengthened by this.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The Senior Leadership of the laboratory has made significant progress over the previous year in realizing their vision for the laboratory. Strategic plans present long range goals that are both exciting and realistic. Decisions and actions taken by the lab leadership align work, facilities, equipment and technical capabilities with the laboratory vision and plan. The Senior leadership of the laboratory faced difficult challenges and successfully plotted its own course through the difficulty, with help from the Department. Partners in the scientific and local communities are supportive of the laboratory.
B	The Senior Leadership of the laboratory has made little progress over the previous year in realizing their vision for the laboratory. Strategic plans present long range goals that are exciting and realistic; however DOE is not fully confident that the laboratory is taking the actions necessary for the goals to be achieved. The Laboratory is not fully engaged with its partners/relationships in the scientific and local communities to maximize the potential benefits these relations have for the laboratory.
C	The Senior Leadership of the laboratory has made no progress over the previous year in realizing their vision for the laboratory or aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are either unexciting or unrealistic. Business plans exist, but they are not linked to the strategic plan and do not inspire DOE's confidence that the strategic goals will be achieved. Partnerships with the scientific and local communities with potential to advance the laboratory exist, but they may not always be consistent with the mission of or vision for the laboratory. Affected communities and stakeholders are mostly supportive of the laboratory and aligned with the management's vision for the laboratory.
D	The Senior Leadership of the laboratory has made no progress or has back-slid over the previous year in realizing their vision for the laboratory or in aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are neither exciting nor realistic. Partnerships that may advance the Laboratory towards strategic goals are inappropriate, unidentified, or unlikely. Affected communities and stakeholders are not adequately engaged with the laboratory and indicate non-alignment with DOE priorities.
F	The Senior Leadership of the laboratory has made no progress or has back-slid over the previous year in realizing their vision for the laboratory or in or aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are not aligned with DOE priorities or the mission of the laboratory. Partnerships that may advance the Laboratory towards strategic goals are inappropriate, unidentified, and unlikely, and/or the senior management team does not demonstrate a concerted effort to develop, leverage, and maintain relations with the scientific and local communities to assist the laboratory in achieving a successful future. Affected communities and stakeholders are openly non-supportive of the laboratory and DOE priorities.

4.2 Management and Operation of the Laboratory

By which we mean: The performance of the laboratory's senior management team as demonstrated by their ability to do such things as:

- Implement a robust contractor assurance system,
- Understand the costs of doing business at the laboratory and prioritize the management and allocation of these costs commensurate with their associated risks and benefits,
- Instill a culture of accountability and responsibility down and through the entire organization, and

- Ensure good and timely communication between the laboratory and SC headquarters and the Site Office so that DOE can deal effectively with both internal and external constituencies.

Letter Grade	Definition
A+	The laboratory has a nationally or internationally recognized contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk, and is working to help others internal and external to the Department establish similarly outstanding practices. The laboratory understands the drivers of cost at their lab, and are prioritizing and managing these costs commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that all the national laboratories and the Department as a whole benefits.
A	The laboratory has improved dramatically in the last year in all of the following: building a robust and transparent contractor assurance system that integrates internal and external (corporate) evaluation processes to evaluate risk; demonstrating the use of this system in making decisions that are aligned with the laboratory's vision and strategic plan; understanding the drivers of cost at their lab, and prioritizing and managing these costs consistent with their associated risks and benefits to the laboratory and the SC laboratory system; demonstrating laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization; assuring communication between the laboratory and SC headquarters that is beneficial to both the lab and SC.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory has a robust and transparent contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk. The laboratory can demonstrate use of this system in making decisions that are aligned with the laboratory's vision and strategic plan. The laboratory understands the drivers of cost at their lab, and are prioritizing and managing these costs commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that there are no surprises or embarrassments.
B	The laboratory has a contractor assurance system in place but further improvements are necessary, or the link between the CAS and the laboratory's decision-making processes are not evident. The laboratory understands the drivers of cost at their lab, but they are not prioritizing and managing these costs as well as they should to be commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is mostly evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that there are no significant surprises or embarrassments.
C	The laboratory lacks a robust and transparent contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk. The laboratory cannot demonstrate use of this system in making decisions that are aligned with the laboratory's vision and strategic plan. The laboratory does not fully understand the drivers of cost at their lab, and thus are not prioritizing and managing these costs as well as they should to be commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Communication between the laboratory and SC headquarters and the Site Office is such that there has been at least one significant surprise or embarrassment.
D	The laboratory lacks a contractor assurance system, doesn't understand the drivers of cost at their lab, and is not prioritizing and managing costs. SC HQ must intercede in management decisions. Poor communication between the laboratory and SC headquarters and the Site Office has resulted in more than one significant surprise or embarrassment.
F	Lack of management by the laboratory's senior management has put the future of the laboratory at risk, or has significantly hurt the reputation of the Office of Science.

4.3 Leadership of External Engagements and Partnerships

By which we mean: the performance of the laboratory leadership team to achieve the following:

- Establish a vision for developing and promoting technology transfer activities at the laboratory that align with the laboratory research portfolio, further DOE missions, and promote national and economic security of the United States;
- Identify potential partners, implement outreach activities, and manage external engagements to promote accomplishment of technology transfer objectives, and to develop a feedback loop with industry that both informs planned and ongoing technology transfer activities; and
- Foster a culture of entrepreneurship at the laboratory that encourages staff at all levels to consider potential technology transfer opportunities within their program work and other laboratory activities.

Letter Grade	Definition
A+	Laboratory leadership has an exemplary technology transfer vision and is a leader across the complex in engaging external partners to identify technology transfer activities that are in strategic alignment with the laboratory research portfolio and in furtherance of the DOE mission. The laboratory is recognized as a preeminent leader in the technology transfer community across the DOE complex, and has assisted other national laboratories to develop strategies for identifying and engaging external partnerships. The laboratory staff are strongly encouraged to seek out and pursue potential technology transfer activities that are clearly connected and/or complementary to their research and development work at the laboratory and the laboratory is able to demonstrate how this outreach informs their ongoing technology transfer efforts.
A	The laboratory has a strong vision for engaging strategic partners and identifying strong connections between the laboratory research portfolio and potential technology transfer activities. The laboratory is one of the leaders in the technology transfer community across the DOE complex. The laboratory staff are encouraged to pursue technology transfer activities that are connected and/or complementary to their research and development work at the laboratory.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory has a vision for engaging external partners, capturing intellectual property, and connecting laboratory research with potential technology transfer activities in furtherance of the DOE mission. Laboratory staff are encouraged to seek out and engage in opportunities for technology transfer activities.
B	The laboratory has some external engagements that support development of a vision for technology transfer activities at the laboratory; however this vision is not fully realized and requires more work to identify potential external partners or challenges in capturing intellectual property.
C	The laboratory lacks a vision and the mechanisms to implement a strategy to promote technology transfer at the laboratory.
D	Laboratory leadership lack a vision and have not supported the mechanisms/resources necessary to develop or implement an external engagement strategy to promote technology transfer activities at the laboratory. Laboratory staff are discouraged from seeking out opportunities to solicit external partner input and are also discouraged from identifying potential activities for technology transfer and from engaging in efforts to protect intellectual property.
F	Lack of vision and resources by the laboratory's senior management has hindered the ability of the laboratory to engage external partners and has hurt the laboratory's ability to identify and plan for technology activities, this failure has significantly hurt the Department's ability to achieve its missions.

4.4 Contractor Value-added

By which we mean: the additional benefits that accrue to the laboratory and the Department of Energy by virtue of having this particular M&O contractor in place. Included here, typically, are things over which the laboratory leadership does not have immediate authority, such as:

- Corporate involvement/contributions to deal with challenges at the laboratory,
- Using corporate resources to establish joint appointments or other programs/projects/activities that strengthen the lab, and
- Providing other contributions to the laboratory that enable the lab to do things that are good for the laboratory and its community and that DOE cannot supply.

Letter Grade	Definition
A+	The laboratory has been transformed as a result of the many, substantial, additional benefits that accrue to the lab as a result of this contractor's operation of the laboratory.
A	Over the past year, the laboratory has become demonstrably stronger, better and more attractive as a place of employment as a result of the many, substantial, additional benefits that accrue to the lab as a result of this contractor's operation of the laboratory.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory enjoys additional benefits above and beyond those associated with managing the laboratory's activities that accrue as a result of this contractor's operation of the laboratory.
B	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; help by the contractor is needed to strengthen the laboratory.
C	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor seems unable to help the laboratory.
D	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor's efforts are inconsistent with the interests of the laboratory and the Department.
F	The laboratory enjoys no additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor's efforts are counter-productive to the interests of the Department.

Notable Outcomes

- **BASO:** Implement an effective cradle-to-grave lifecycle **chemical management** program that clearly holds LBNL line management accountable. (Objective 4.2)
- **SC:** Develop a plan to address the findings and recommendations from the scheduled peer review of the laboratory's diversity and inclusion efforts, conducted by the SC Office of the Deputy Director for Science Programs. Brief SC on the plan by June 1, 2020. (Objective 4.2)
- **BASO/SC:** The Laboratory must keep senior SC leadership informed of key events (e.g., VIP/protocol visits, news releases, media requests) through timely population of the Science News Dashboard with all the relevant information on such activities and/or through other appropriate mechanisms. (Objective 4.2)
- **BASO/SC:** Demonstrate full implementation of program(s) that protects sensitive government information, technologies, equipment, intellectual property, and assets as reflected in applicable regulations and DOE Orders; e.g., O 142.3A Unclassified Foreign Visits and Assignments, P 485.1 Foreign Engagements with DOE National Laboratories, O 486.1 Foreign Government Talents Recruitment Programs, 550.1 Official Travel, O 481.1E, Strategic Partnership Projects, and O 483.1B, DOE Cooperative Research and Development Agreements. (Objective 4.2)

- **BASO/SC:** The Laboratory and contractor leadership must ensure that all communication with interested stakeholders on DOE/SC program priorities/objectives are aligned with DOE/SC goals, strategies and guidance. (Objective 4.4)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 4.0 – Provide Sound and Competent Leadership and Stewardship of the Laboratory				
4.1 Leadership and Stewardship of the Laboratory			30%	
4.2 Management and Operation of the Laboratory			30%	
4.3 Leadership of External Engagements and Partnerships			10%	
4.4 Contractor Value-Added			30%	
Performance Goal 4.0 Total				

Table 4.1 – Performance Goal 4.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 4.2 – Goal 4.0 Final Letter Grade

GOAL 5.0 Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection

The weight of this Goal is 25%.

This Goal evaluates the Contractor's overall success in deploying, implementing, and improving integrated ES&H systems that efficiently and effectively support the mission(s) of the Laboratory.

- 5.1 Provide an Efficient and Effective Worker Health and Safety Program
- 5.2 Provide Efficient and Effective Environmental Management System

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in protecting workers, the public, and the environment. This may include, but is not limited to, minimizing the occurrence of environment, safety and health (ESH) incidents; effectiveness of the Integrated Safety Management (ISM) system; effectiveness of work planning, feedback, and improvement processes; the strength of the safety culture throughout the Laboratory; the strength of the Nuclear/Facility Safety Programs; the effective development, implementation and maintenance of an efficient and effective Environmental Management system; and the effectiveness of responses to identified hazards and/or incidents.

Notable Outcomes

- **BASO:** Develop and execute plan to implement the **10 CFR 851 Permanent Variance** utilizing CAL OSHA as the worker health and safety standard for the Laboratory. (Objective 5.1)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 5.0 - Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection.				
5.1 Provide an Efficient and Effective Worker Health and Safety Program			75%	
5.2 Provide an Efficient and Effective Environmental Management System			25%	
Performance Goal 5.0 Total				

Table 5.1 – Performance Goal 5.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 5.2 – Goal 5.0 Final Letter Grade

GOAL 6.0 Deliver Efficient, Effective, and Responsive Business Systems and Resources that Enable the Successful Achievement of the Laboratory Mission(s)

The weight of this Goal is 25%.

This Goal evaluates the Contractor's overall success in deploying, implementing, and improving integrated business systems that efficiently and effectively support the mission(s) of the Laboratory.

- 6.1 Provide an Efficient, Effective, and Responsive Financial Management System
- 6.2 Provide an Efficient, Effective, and Responsive Acquisition Management System and Property Management System
- 6.3 Provide an Efficient, Effective, and Responsive Human Resources Management System and Diversity Program
- 6.4 Provide Efficient, Effective, and Responsive Contractor Assurance Systems, including Internal Audit and Quality
- 6.5 Demonstrate Effective Transfer of Knowledge and Technology and the Commercialization of Intellectual Assets

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in the development, deployment and integration of foundational program (e.g., Contractor Assurance, Quality, Financial Management, Acquisition Management, Property Management, and Human Resource Management) systems across the Laboratory. This may include, but is not limited to, minimizing the occurrence of management systems support issues; quality of work products; continual improvement driven by the results of audits, reviews, and other performance information; the integration of system performance metrics and trends; the degree of knowledge and appropriate utilization of established system processes/procedures by Contractor management and staff; benchmarking and performance trending analysis. The DOE evaluator(s) shall consider the Laboratory's performance in making progress toward comprehensive collection and submission to OSTI of peer-reviewed accepted manuscripts for journal articles (and associated metadata) resulting from DOE-funded research as called for in the [DOE Public Access Plan](#)⁹, and cooperation with the Department in meeting the relevant requirements to provide other forms of scientific and technical information to OSTI, per DOE O 241.1B. The DOE evaluator(s) shall also consider the stewardship of the pipeline of innovations and resulting intellectual assets at the Laboratory along with impacts and returns created/generated as a result of technology transfer, work for others and intellectual asset deployment activities.

Notable Outcomes

- **BASO:** Improve the effectiveness of the **Contractor Assurance System (CAS)** so that it identifies and mitigates critical risks to the Laboratory as measured by performance factors including: improved project management, improved chemical management, improved safeguards and security and improved line management accountability. (Objective 6.4)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 6.0 - Deliver Efficient, Effective, and Responsive Business Systems and Resources that Enable the Successful Achievement of the Laboratory Mission(s)				

⁹ <https://www.energy.gov/downloads/doe-public-access-plan>

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
6.1 Provide an Efficient, Effective, and Responsive Financial Management System(s)			25%	
6.2 Provide an Efficient, Effective, and Responsive Acquisition Management System and Property Management System			25%	
6.3 Provide an Efficient, Effective, and Responsive Human Resources Management System and Diversity Program			10%	
6.4 Provide Efficient, Effective, and Responsive Contractor Assurance Systems, including Internal Audit and Quality			20%	
6.5 Demonstrate Effective Transfer of Knowledge and Technology and the Commercialization of Intellectual Assets			20%	
Performance Goal 6.0 Total				

Table 6.1 – Performance Goal 6.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 6.2 – Goal 6.0 Final Letter Grade

GOAL 7.0 Sustain Excellence in Operating, Maintaining, and Renewing the Facility and Infrastructure Portfolio to Meet Laboratory Needs

The weight of this Goal is 30%.

This Goal evaluates the overall effectiveness and performance of the Contractor in planning for, delivering, and operations of Laboratory facilities and equipment needed to ensure required capabilities are present to meet today's and tomorrow's mission(s) and complex challenges.

- 7.1 Manage Facilities and Infrastructure in an Efficient and Effective Manner that Optimizes Usage, Minimizes Life Cycle Costs, and Ensures Site Capability to Meet Mission Needs
- 7.2 Provide Planning for and Acquire the Facilities and Infrastructure Required to Support the Continuation and Growth of Laboratory Missions and Programs

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in facility and infrastructure programs. This may include, but is not limited to, the management of real property assets to maintain effective operational safety, worker health, environmental protection and compliance, property preservation, and cost effectiveness; planning and executing strategies to promote the resilience and reliability of laboratory infrastructure; effective facility utilization, maintenance and budget execution; day-to-day management and utilization of space in the active portfolio; maintenance and renewal of building systems, structures and components associated with the Laboratory's facility and land assets; management of energy use, conservation, and sustainability practices; the integration and alignment of the Laboratory's comprehensive strategic plan with capabilities; facility planning, forecasting, and acquisition; the delivery of accurate and timely information required to carry out the critical decision and budget formulation process; quality of site and facility planning documents; and Cost and Schedule Performance Index performance for facility and infrastructure projects.

Notable Outcomes

- **BASO/SC:** Develop an integrated set of key requirements and associated milestones to support the comprehensive set of general site-wide and programmatic specific infrastructure projects to support the front end planning and prioritization of the Lab's capability gaps. (Objective 7.1)
- **BASO:** Implement a subcontract and project management strategy that keeps the Bayview demolition and remediation on a success path to accommodate the construction start of BioEPIC. (Objective 7.2)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 7.0 - Sustain Excellence in Operating, Maintaining, and Renewing the Facility and Infrastructure Portfolio to Meet Laboratory Needs.				
7.1 Manage Facilities and Infrastructure in an Efficient and Effective Manner that Optimizes Usage, Minimizes Life Cycle Costs, and Ensures Site Capability to Meet Mission Needs			30%	

7.2 Provide Planning for and Acquire the Facilities and Infrastructure Required to support the Continuation and Growth of Laboratory Missions and Programs			70%	
Performance Goal 7.0 Total				

Table 7.1 – Performance Goal 7.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 7.2 – Goal 7.0 Final Letter Grade

GOAL 8.0 Sustain and Enhance the Effectiveness of Integrated Safeguards and Security Management (ISSM) and Emergency Management Systems

The weight of this Goal is 20%.

This Goal evaluates the Contractor's overall success in safeguarding and securing Laboratory assets that supports the mission(s) of the Laboratory in an efficient and effective manner and provides an effective emergency management program.

- 8.1 Provide an Efficient and Effective Emergency Management System
- 8.2 Provide an Efficient and Effective Cyber Security System for the Protection of Classified and Unclassified Information
- 8.3 Provide an Efficient and Effective Physical Security Program for the Protection of Special Nuclear Materials, Classified Matter, Classified Information, Sensitive Information, and Property

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in the safeguards and security, cyber security and emergency management program systems. This may include, but is not limited to, the commitment of leadership to strong safeguards and security, cyber security and emergency management systems; the integration of these systems into the culture of the Laboratory; the degree of knowledge and appropriate utilization of established system processes/procedures by Contractor management and staff; maintenance and the appropriate utilization of Safeguards, Security, and Cyber risk identification, prevention, and control processes/activities; and the prevention and management controls and prompt reporting and mitigation of events as necessary.

Notable Outcomes

- **BASO/SC:** Ensure the appropriate completion of Plans of Actions and Associated Milestones (POAMs) for Email Multi-Factor Authentication. (Objective 8.2)
- **BASO:** Leverage the IGB Badge Pilot initiative as a means to increase security effectiveness and awareness site-wide by expanding 24/7 badge access to other site facilities in FY 2020. (Objective 8.3)
- **BASO/SC:** Develop and Implement a comprehensive Corrective Action Plan (CAP) with end-states and timelines to address all findings and appropriate recommendations resulting from the February 2017 DOE-HQ-SC Safeguards and Security Assessment and the October 2018 For-Cause Foreign Visits and Assignments Review. (Objective 8.3)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 8.0 - Sustain and Enhance the Effectiveness of Integrated Safeguards and Security management (ISSM) and Emergency Management Systems.				
8.1 Provide an Efficient and Effective Emergency Management System			20%	
8.2 Provide an Efficient and Effective Cyber Security System for the Protection of Classified and Unclassified Information			20%	
8.3 Provide an Efficient and Effective Physical Security Program for the Protection of Special Nuclear			60%	

Materials, Classified Matter, Classified Information, Sensitive Information, and Property				
Performance Goal 8.0 Total				

Table 8.1 – Performance Goal 8.0 Score Development

Total Score	4.3- 4.1	4.0- 3.8	3.7- 3.5	3.4- 3.1	3.0- 2.8	2.7- 2.5	2.4- 2.1	2.0- 1.8	1.7- 1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 8.2 – Goal 8.0 Final Letter Grade

ATTACHMENT J.3

APPENDIX C

**SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT FOR
USE WITH THE PAYMENTS CLEARED FINANCING ARRANGEMENT**

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National
Laboratory**

Contract No. DE-AC02-05CH11231

**SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT
FOR USE WITH THE
PAYMENTS CLEARED FINANCING ARRANGEMENT**

Agreement Number 1000001911 entered into this, 1st day of November, 2019, between the UNITED STATES OF AMERICA, represented by the Department of Energy (hereinafter referred to as "DOE" or "Government"), and the Regents of the University of California, a corporation/legal entity existing under the laws of the State of California and under contract for managing and operating the Lawrence Berkeley National Laboratory (LBNL) (hereinafter referred to as the Contractor) and Wells Fargo Bank, N.A, a financial institution corporation existing under the laws of the State Delaware (hereinafter referred to as the Financial Institution).

RECITALS

(a) On the effective date of May 2005, DOE and the Contractor entered into Contract No. DE-AC02-05CH11231 or a Supplemental Contract thereto, providing for the transfer of funds on a payments-cleared basis.

(b) DOE requires that amounts transferred to the Contractor there under be deposited in a special demand deposit account at a financial institution covered by Treasury-approved Government deposit insurance organizations that are identified in I TFM 6-9000.

These special demand deposits must be kept separate from the Contractor's general or other funds, and the parties are agreeable to so depositing said amounts with the Financial Institution.

(c) The special demand deposit account shall be designated "Lawrence Berkeley National Laboratory, Agreement No. 1000001911, DOE Special Bank Account."

COVENANTS

In consideration of the foregoing, and for other good and valuable considerations, it is agreed that—

1. The Government shall have a title to the credit balance in said account to secure the repayment of all funds transferred to the Contractor, and said title shall be superior to any lien, title, or claim of the Financial Institution or others with respect to such account.

2. The Financial Institution shall be bound by the provisions of said Agreement(s) between DOE and the Contractor relating to the transfer of funds into the and withdrawal of funds from the above special demand deposit account, which are hereby incorporated into this Agreement by reference, but the Financial Institution shall not be responsible for the application of funds withdrawn from said account. After receipt by the Financial Institution of directions from DOE, the Financial Institution shall act thereon and shall be under no liability to any party hereto for any action taken in accordance with the said written directions. Any written directions received by the Financial Institution from the Government upon DOE stationery and purporting to be signed by, or signed at the written direction of, the Government may, insofar as the rights, duties, and liabilities of the Financial Institution are concerned, be considered as having been properly issued and filed with the Financial Institution by DOE.

3. DOE, or its authorized representatives, shall have access to financial records maintained by the Financial Institution with respect to such special demand deposit account at all reasonable times and for all reasonable purposes, including, but without limitation to, the inspection or copying of such financial records and any or all memoranda, checks, payment requests, correspondence, or documents pertaining thereto. Such financial records shall be preserved by the Financial Institution for a period of 6 years after the final payment under the Agreement.

4. In the event of the service of any writ of attachment, levy of execution, or commencement of garnishment proceedings with respect to the special demand deposit account, the Financial Institution shall promptly notify both DOE and LBNL at:

Maria Robles
Contracting Officer
DOE Berkeley Site Office
One Cyclotron Road
Berkeley, CA 94720

Andrew Padilla
Pr. Subcontract Administrator
Lawrence Berkeley National Laboratory
One Cyclotron Road, Mail-Stop 971-PROC
Berkeley, CA 94720

5. DOE shall authorize funds that shall remain available to the extent that obligations have been incurred in good faith thereunder by the Contractor to the Financial Institution for the benefit of the special demand deposit account. The Financial Institution agrees to honor upon presentation for payment all payments issued by the Contractor and to restrict all withdrawals against the funds authorized to an amount sufficient to maintain the average daily balance in the special demand deposit account in a net positive and as close to zero as administratively possible.

The Financial Institution agrees to service the account in this manner based on the requirements and specifications contained in the following documents: Statement of Work for Banking Services dated October 16, 2019, Data Security, Privacy and Information Management Requirements, dated December 11, 2018, and Schedule of Services and Charges for Lawrence Berkeley National Laboratory Banking Services Agreement No. 1000001911. The Financial Institution agrees that per-item costs, detailed in the Schedule of Services and Charges for Lawrence Berkeley National Laboratory Banking Services Agreement No. 1000001911, shall remain constant or lower, during the term of this Agreement.

The Financial Institution shall calculate the fees based on services rendered, and charge basis, and invoice the Contractor. The Contractor shall issue a check or automated clearinghouse authorization transfer to the Financial Institution in payment thereof.

6. The Financial Institution shall post collateral in accordance with 31 CFR 202 with the Federal Reserve bank in an amount equal to the net balances in all of the accounts included in this Agreement (including the noninterest-bearing time deposit account), less the Treasury-approved deposit insurance.

7. This Agreement, with all its provisions and covenants, shall be in effect for a term of three (3) years, beginning on the 1st day of November, 2019, and ending on the 31st day of October, 2022. The Agreement may be extended for two additional periods of one year each, under the same pricing, terms, and conditions. Any such extension shall be by issuance of a written modification executed by all parties to the Agreement.

8. DOE, the Contractor, or the Financial Institution may terminate this Agreement at any time within the agreement period upon submitting written notification to the other parties 180 days prior to the desired termination date. The specific provisions for operating the account during this 180-day period are contained in Covenant 11.

9. DOE or the Contractor may terminate this Agreement at any time upon 30 days' written notice to the Financial Institution if DOE or the Contractor, or both parties, find that the Financial Institution has failed to substantially perform its obligations under this Agreement or that the Financial Institution is performing its obligation in a manner that precludes administering the program in an effective and efficient manner of that precludes the effective utilization of the Government's cash resources.

10. Notwithstanding the provisions of Covenants 8 and 9, in the event that the Agreement, referenced in Recital (a), between DOE and the Contractor is not renewed or is terminated, this Agreement between DOE, the Contractor, and the Financial Institution shall be terminated automatically upon the delivery of written notice to the Financial Institution.

11. In the event of termination, the Financial Institution agrees to retain the Contractor's special demand deposit account for an additional 180-day period to clear outstanding payment items.

12. Insurance

A. Types of Coverage

The Financial Institution shall obtain, keep in force, and maintain insurance to cover its performance under this Agreement of the types and in the amounts set forth below. Such insurance shall be maintained in full force and effect during the performance of work required by this Agreement. The stipulation of required coverage and limits of insurance shall not in any way limit the liability of the Financial Institution.

Commercial General Liability Insurance

Minimum Limit

• Per Occurrence	\$ 1,000,000
• Products/Completed Operations Aggregate	\$ 2,000,000
• Personal and Advertising Injury	\$ 1,000,000

- General Aggregate \$ 2,000,000

Privacy, Technology and Data Security Liability, Cyber Liability,
or Technology Professional Liability Insurance

	<u>Minimum Limit</u>
• Each Occurrence	\$ 1,000,000
• Annual Aggregate	\$ 5,000,000

The Privacy, Technology and Data Security Liability, Cyber Liability, or Technology Professional Liability insurance policy shall provide coverage for privacy and data security breaches, including coverage for reasonable costs in investigating and responding to privacy and/or data breaches.

B. Insurance Certificate Requirements

- Primary and Noncontributory Endorsement. The general liability insurance coverage, by a valid endorsement, shall be primary and noncontributory and shall not participate with or be in excess over any other valid collectible insurance or program of self-insurance of the Contractor or the U.S. Government. Statements on the certificate designating the insurance as primary and noncontributory will not suffice, an endorsement is required.

- Certificate Holder. The Certificate Holder shall be listed as follows.

The Regents of the University of California and the U.S. Government
Lawrence Berkeley National Laboratory
c/o Insurance Tracking Services, Inc. (ITS)
P.O. Box 20270
Long Beach, CA 90801

- Rating. The required insurance shall be obtained from insurance companies authorized to do business in California that have an A.M. Best rating of A-: VII or better, or an equivalent Standard & Poor's rating of AA or better or Moody's rating of Aa or better; or that are acceptable to the Contractor.
- Deductible. Subcontractor shall bear all financial responsibility for all pertinent deductibles, self-insured retentions and/or self-insurance with no contribution required from the Contractor and/or DOE.
- Self-Insurance Retention. Subcontractor shall bear all financial responsibility for all pertinent deductibles, self-insured retentions and/or self-insurance with no contribution required from the Contractor and/or DOE.
- Applicability. The insurance certificates submitted may be able to be applied to future LBNL Agreements, and it is preferred that it not be made applicable,

or reference, a specific Agreement.

C. Notification

The Financial Institution or its insurers shall provide written notification to the Contractor's Procurement Representative and Insurance Tracking Services, Inc. (ITS) at least 30 days in advance of any modification, change, or cancellation of any of the insurance coverage.

D. Certificate Submission

The Contractor has contracted with Insurance Tracking Services, Inc. (ITS), a third party responsible for verifying the Financial Institution's compliance with the insurance requirements contained in the Agreement with the Contractor.

ITS will correspond directly with the Financial Institution to convey insurance deficiencies, policy renewal requests and any other insurance documentation that may be lacking in order to establish full compliance with the Contractor's insurance requirements.

Prior to commencing any Services at a location other than the Financial Institution's or lower-tier subcontractor's facilities, the Financial Institution shall provide certificate(s) of insurance and any necessary endorsements or other documentation confirming the required insurance coverage, by submitting them to the Contractor's authorized insurance compliance monitoring representative, ITS at lbl@instracking.com or fax to (562) 435-2999, or mail to:

The Regents of the University of California and the U.S. Government
Lawrence Berkeley National Laboratory
c/o Insurance Tracking Services, Inc. (ITS)
P.O. Box 20270
Long Beach, CA 90801

E. The requirements of this Covenant shall be met by the Financial Institution at no additional cost to DOE and the Contractor.

13. This Agreement shall continue in effect for the 180-day additional period, with exception of the following:

- a. Term Agreement (Covenant 7)
- b. Termination of Agreement (Covenant 8 and 9)

All terms and conditions of the aforesaid documents listed in Covenant 5 that are not inconsistent with this 180-day additional term shall remain in effect for this period.

14. The Financial Institution has submitted the forms entitled "Technical Representations and Certifications" and "University of California Lawrence Berkeley National Laboratory Representations and Certifications." These forms, in addition to the "Offeror's Pricing" form have been accepted by the Contractor and the Government and are incorporated herein as an integral part of this Agreement.

IN WITNESS WHEREOF the parties hereto have caused this Agreement, which consists of 9 pages, including the signature pages, to be executed as of the day and year first above written.

THE UNITED STATES OF AMERICA

U.S. Department of Energy

**Maria
Robles**

Digitally signed
by Maria Robles
Date: 2019.10.29
10:50:14 -07'00'

By _____

(Name of Contracting Officer)

(Signature of Contracting Officer)

(Date of Signature)

The Regents of the University of California

By Arthur Guimaraes

(Name of Contractor's Representative)



(Signature of Contractor's Representative)

Chief Operating Officer

(Title)

1111 Broadway, Suite 2100, Oakland CA 94607

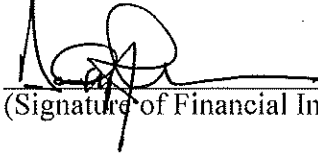
(Address)

10/25/2019

(Date of Signature)

By

(Name of Financial Institution Representative)



(Signature of Financial Institution Representative)

SENIOR VICE PRESIDENT

(Title)

1750 H ST. NW SUITE 200 WASHINGTON, DC 20007

(Address)

202-416-2618

(Telephone Number)

10/24/2019

(Date of Signature)

NOTE

The Contractor, if a corporation, shall cause the following Certificate to be executed under its corporate seal, provided that the same officer shall not execute both the Agreement and the Certificate.

CERTIFICATE

I, _____, certify that I am the _____ of the corporation named as Contractor herein; that _____, who signed this Agreement on behalf of the Contractor, was then _____ of said corporation and that said Agreement was duly signed for the and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(Corporate Seal) (Signature)


NOTE

Financial Institution, if a corporation, shall cause the following Certificate to be executed under its corporate seal, provided that the same officer shall not execute both the Agreement and the Certificate.

CERTIFICATE

I, _____, certify that I am the _____ of the corporation named as Contractor herein; that _____, who signed this Agreement on behalf of the Contractor, was then _____ of said corporation and that said Agreement was duly signed for the and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(Corporate Seal) (Signature)



SENIOR VICE PRESIDENT

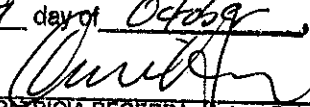
WELLS FARGO BANK, N.A.

10/24/2019

District of Columbia: SS

Subscribed and Sworn to before me

this 29 day of October, 2019



DIANA PATRICIA BECERRA, Notary Public, D.C.

My commission expires September 30, 2023



CERTIFICATE OF INCUMBENCY

I, Anne Shaw, Secretary and Chief of Staff to The Regents of The University of California, a corporation organized and existing under the laws of the State of California (the "Corporation"), hereby certify that the persons named below hold the positions set forth next to their names and the signatures provided below are genuine.

Name	Title	Signature
Janet Napolitano	President	
Jagdeep Singh Bachher	Vice President and CIO	
Arthur Guimaraes	Chief Operating Officer	
Steven Sterman	Senior Managing Director	



Anne Shaw

Secretary and Chief of Staff to

The Regents of the University of California, a Corporation

Dated: July 29, 2016

ATTACHMENT J.4

APPENDIX D

**LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS,
SPACE AND EQUIPMENT**

(Applies only if Clause H.40A is applicable)

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS,
SPACE AND EQUIPMENT

- (a) The Contractor and the Government have entered into the following lease and occupancy agreements:
- (1) Occupancy Agreement entered into on June 28, 1948; Supplement No. 1 dated May 16, 1956; Supplement No. 2 dated October 24, 1961; Supplement No. 3 dated April 30, 1963; Supplement No. 4 dated December 2, 1964; Supplement No. 5 dated June 15, 1970; Supplement No. 6 dated February 23, 1988; Supplement No. 7 dated May 24, 2011; Supplement No. 8 dated December 2, 2014; Supplement No. 9 dated April 4, 2018; Supplement No. 10 dated May 20, 2020.
 - (2) Lease Agreement entered into on September 1, 1948 (Wilson Tract); Supplement No. 1 dated January 3, 1949; Supplement No. 2 dated June 30, 1955; Supplement No. 3 dated April 17, 1962; Supplement No. 4 dated April 6, 1965; Supplement No. 5 dated December 5, 1967; Supplement No. 6 dated April 3, 1975; Supplement No. 7 dated May 24, 2011; Supplement No. 8 dated April 25, 2012; Supplement No. 9 dated June 2, 2016; Supplement No. 10 dated April 4, 2018; Supplement No. 11 dated May 20, 2020.
 - (3) Lease Agreement entered into on November 9, 1959 (State University Tract – Plot 80 & 82); Supplement No. 1 dated December 2, 1964; Supplement No. 2 dated June 9, 1986; Supplement No. 3 dated February 23, 1988; Supplement No. 4 dated May 24, 2011; Supplement No. 5 dated April 23, 2012; and Supplement No. 6 dated April 4, 2018; Supplement No. 7 dated May 20, 2020.
 - (4) Lease Agreement entered into on January 19, 1961 (East Site Development - Parcel 15); Supplement No. 1 dated May 25, 1962 (State University Tract, Simmons Plot); Supplement No. 2 dated September 21, 1962; Supplement No. 3 dated December 5, 1967; Supplement No. 4 dated October 6, 1969; Supplement No. 5 dated July 5, 1979; Supplement No. 6 dated April 1, 1985; Supplement No. 7 dated October 25, 1985; Supplement No. 8 dated October 12, 1985; Supplement No. 9 dated July 23, 1992; Supplement No. 10, dated June 2, 2003; Supplement No. 11 dated June 2, 2003; Supplement No. 12 dated May 23, 2011; Supplement No. 13 dated April 4, 2018; and Supplement No. 14 dated May 20, 2020.
 - (5) Lease Agreement entered into on May 1, 1962 (State University Campus Plot "O"); Supplement No. 1 dated September 21, 1962; Supplement No. 2 dated October 21, 1964; Supplement No. 3 dated March 23, 1965; Supplement No. 4 dated April 27, 1966; Supplement No. 5 dated February 10, 1967; Supplement No. 6 dated July 5, 1979; Supplement No. 7 dated May 23, 2011; Supplement No. 8 dated April 4, 2018; and Supplement No. 9 dated May 20, 2020.

- (6) Lease Agreement entered into on June 15, 1963 (Bailey Tract); Supplement No. 1 dated February 23, 1988; Supplement No. 2 dated May 24, 2011; Supplement No. 3 dated June 7, 2011; Supplement No. 4 dated March 10, 2020; and Supplement No. 5 dated May 20, 2020.
 - (7) Occupancy Agreement for the Computational Research and Theory (CRT) Facility, dated October 12, 2011; Amendment No. 1 dated July 6, 2016 (incorporated herein by this reference).
 - (8) Occupancy Agreement for Solar Energy Research Center (SERC) (Chu Hall), dated August 9, 2014 (incorporated herein by this reference).
 - (9) Occupancy Agreement for Oakland Scientific Facility (OSF), dated December 3, 2018 (incorporated herein by this reference).
- (b) The provisions outlined below shall apply to the lease or occupancy by the Government of the property of the Contractor:
- (1) Lease and Occupancy Agreements For Structures And Improvements On Regular University Campus. The Contractor and DOE have entered into or shall enter into occupancy or lease agreements for the use of the regular University campus upon which structures and other improvements financed by the Government have been or will be constructed. Lease agreements shall be used in the case of new Government-owned structures and to the extent mutually agreed upon for other structures. Such lease agreements shall conform to leases entered into pursuant to paragraph (b)(2) below, except for such differences as the parties have agreed upon for prior leases on the State University Tract or may hereafter mutually agree upon. Such occupancy agreements shall incorporate the following terms and conditions, and such other provisions as may be agreed to by the parties:
 - (i) DOE shall have the right to occupy and use the property in conjunction with the Contractor during the term of this contract and any successor contracts and for three years after termination of such contracts as provided below.
 - (ii) After termination of this contract or any successor contract, and by mutual agreement of the parties at any time during the course of the work, the Contractor shall have the right to purchase any such structure or improvement at a price to be agreed upon as fair and proper. DOE shall be given reasonable notice of the Contractor's election to purchase. In the event the parties cannot agree upon the price for any such structure or improvement which the Contractor elects to purchase, the value of the structure shall be determined by an appraiser mutually acceptable to the parties. In any such appraisal the original cost and appropriate depreciation of the structure or improvement shall be given full consideration in the determination of value.

- (iii) Subject to the Contractor's right to purchase, DOE shall have the right to occupy and use the structures and improvements in conjunction with the Contractor for a period of three years after termination for storage and such other purposes as may be approved by the Contractor, and to remove all or any part of any such structure or other improvements.
 - (iv) DOE shall not be obligated to restore any such property to its original condition or otherwise, except if DOE removes any substantial part of any structure or improvement the Contractor may require the restoration of the affected premises to its original condition.
 - (v) During the period of occupancy by DOE after termination, the Contractor shall continue to provide adequate maintenance, utilities and other necessary services, and shall afford DOE and its designees access to the premises at all times. DOE shall pay the Contractor for its direct expenses for maintenance and services for the structures and improvements attributable to DOE's occupancy and use during the period after termination.
 - (vi) Upon expiration of the three-year period after termination, all structures and improvements not purchased or removed shall become the property of the Contractor.
- (2) Lease Agreements For Structures And Improvements On Wilson Tract, Plot "O" And Plot "M." The Contractor and DOE have entered into or shall enter into lease agreements granting DOE rights in the property of the Contractor known as Wilson Tract, Plot "O" and "M" upon which structures and other improvements financed by the Government have been or will be constructed. Such leases shall incorporate the following terms and conditions, and such other provisions as may be agreed to by the parties:
- (i) DOE shall be granted a 50-year lease, or as otherwise stated, for the premises occupied by such structures and improvements together with a reasonable surrounding area. If the contractual relations between the Contractor and the Government are in effect at the end of the 50-year period of any lease period, or as otherwise stated the term of the lease shall extend until the termination of such relationship and three years thereafter. The term of the lease for each structure or improvement shall be effective from the date of approval of construction by DOE.
 - (ii) Under any such lease during the term of this contract and its extensions, the premises shall be used solely by the Contractor and DOE in carrying on work under this contract, unless otherwise agreed to by the parties in writing.
 - (iii) The Contractor at any time during the term of the contract may purchase any such structure or improvement where the needs of the program no

longer require their use. Such purchase shall be subject to paragraph (b)(2)(iv) below.

- (iv) After termination of this contract or any successor contract, and by mutual agreement of the parties at any time during the course of the work, the Contractor shall have the right to purchase any such structure or improvement at a price to be agreed upon as fair and proper. DOE shall be given reasonable notice of the Contractor's election to purchase. In the event the parties cannot agree upon the price for any such structure or improvement which the Contractor elects to purchase, the value of the structure shall be determined by an appraiser mutually acceptable to the parties. In any such appraisal the original cost and appropriate depreciation of the structure or improvement shall be given full consideration in the determination of value.
 - (v) After termination, subject to the Contractor's right to purchase, DOE shall have the right to (A) continue research work related to energy, (B) place and maintain equipment related to the energy program, (C) remove all or any part of any such structure or improvements, and (D) carry on such other activities as may be mutually agreed to by the parties except as may be qualified by the parties. In exercising its rights pursuant to this subparagraph, DOE shall have the right to permit other organizations and individuals to participate with DOE in carrying on such activities.
 - (vi) Under any such lease, DOE shall not be obligated to restore any property to its original condition or otherwise, except that if DOE removes any substantial part of any structure or improvement the Contractor may require the restoration of the affected premises to its original condition.
 - (vii) During the period of the lease after termination of the contract, the Contractor shall continue to provide adequate maintenance, utilities, and other necessary services (including standby services), and shall afford DOE and its designees access to the premises at all times. DOE shall pay the Contractor for its direct expenses for maintenance and services for the structures and improvements attributable to DOE's use of the property during the period after termination.
 - (viii) Upon expiration of the term of this lease and such extensions as may be mutually agreed upon, all structures and improvements not purchased or removed shall become the property of the Contractor.
- (3) Lease and Occupancy by DOE of Real Property Owned by The University - Responsibility For Environmental Restoration And Remedial Work. Upon termination or expiration of contract DE-AC02-05CH11231 or any lease or occupancy agreements providing for the Government's use of the property of the Contractor, DOE shall be responsible for complying with applicable laws, regulations, or orders requiring investigation, monitoring, cleanup, containment,

restoration, removal, or other remedial activity with respect to any hazardous substances present in the soil, ground water or buildings as a result of activities conducted during the term of this contract or any prior contract modifications or during the term of any said lease or occupancy agreements.

(4) Contractor Building Space and Equipment.

- (i) Contractor building space and equipment used directly by Laboratory personnel under Contract DE-AC02-05CH11231 (previously Contracts W-7405-ENG-48 and DE-AC03-76SF00098) shall be at least equivalent to

Berkeley campus proper buildings	Facility Usable Sq. Ft.
1 – Donner Laboratory	20,340
8 – Hearst Mining	509
11 – Hildebrand Hall	8784
18 - Gilman Hall	1108
019A – Birge Hall	3327
22 – Latimer Hall	4806
24 – Etcheverry Hall	8
38 - Lewis Hall	602
39 – Cory	21
300 – Mulford	168
301 – Hilgard	1,611
302- Li Ka Shing	172
850 - Tan Hall	3,762
922 – Stanley	145
927 - Koshland Hall	2,142
953 – McCone	370
955 - EBI (Energy Biosciences Institute)	999
966 – Sutardja Dai	20
996 – Campbell	125
Subtotal (Contractor)	48,211
LBNL site proper buildings:	
(ALS) Advanced Light Source (previously 184" Cyclotron) – B6 Dome Only (referenced in DOE FIMS B6 note section)	24,317
Total Space Used	72,528
Equipment:	
Polar Crane in B6 (ALS) from 184" Cyclotron	

*Table updated as of 01/23/20.

- (ii) The Parties agree that Contractor space furnished under subparagraph (b)(4)(i) above by the Contractor may be changed from time to time by mutual agreement of the parties, and except as otherwise agreed, the Contractor shall continue to furnish space at no less than 72,528 square feet. In the event that the space furnished varies, the Contractor shall make an appropriate adjustment for maintenance and service charges (e.g., janitorial, electricity, steam, water, EHS services, etc.) related to such variation based on the annual campus space survey.
- (iii) In addition to the direct expenses for maintenance and services, DOE authorizes reimbursement calculated in accordance with CAS 414 (Facilities Capital Cost of Money – FCCM) and FAR 31.205-11 for the following facilities:

Solar Energy Research Center (SERC) or (Chu Hall)
Computational Research and Theory Facility (CRT) or (Wang Hall)

- (c) DOE shall have the right to occupy and use the property, identified below, in conjunction with the Contractor during the term of this contract and any successor contracts and for three years after termination of such contracts. Leases and Occupancy Agreements that are expiring during this period shall be modified by supplemental agreement to the end of contract period plus three years. Supplements shall be implemented 90 days prior to their expiration.
 - (1) If DOE has no continuing need to occupy the Land a supplement will be prepared identifying the Land being returned to the University and the agreed to “clean-up standards.”
 - (2) If DOE has a continuing need to occupy the Land or construct a new facility then DOE will enter into a lease parcel agreement rather than modify the occupancy agreement.

Ground Lease Parcel Summary*				
Tract	Parcel	Assets	Parcel Start Date	Parcel End Date
Wilson	1A	Bldgs 91, 91U	6/2/2016	10/7/2066
Wilson	1B	Bldgs 51F, 56, 56A, 60, 63, 64; Trailer 56M, S56, S64	9/1/1948	5/31/2025
Wilson	2	Bldgs 46, 46A; Trailers 46B, 46D	12/15/1948	5/31/2025
Wilson	3	Bldg 50	9/14/1948	5/31/2025
Wilson	4	Bldgs 54A, 70	3/27/1953	5/31/2025
Wilson	5	Bldgs 17, 27, 47, 53, 58, 58A; Trailers 7C, S7, 17A, S27, 30U, S53, 53B, 58B	12/18/1950	5/31/2025
Wilson	6	Bldgs 55, 55A, 60	2/15/1951	5/31/2025
Wilson	7	Bldgs 71, 71A, 71B, 71T; Trailers 71C, 71D, 71F, 71J, 71K, 71P, 71Q, 71W, 71X	7/27/1955	5/31/2025
Wilson	9	Bldgs 13B, 90, 90X; Trailers 90C, 90P, S90A, S90B	5/5/1959	5/31/2025
Wilson	10	Bldgs 13A, 65, 88, 88D; Trailers 65A, 65B, 88B, 88C, 88E, 88S	8/28/1959	5/31/2025
Wilson	16	Bldgs 50A, 50B, 50C, 50E, 50F	10/31/1960	5/31/2025
Wilson	22	Bldg 82; Trailers 81A, 81B, 81C, 81D	2/13/1967	5/31/2025
Bailey	20	Bldgs 26, 33, 33U	6/15/1963	7/1/2061
Bailey	26	Bldgs 6, 7, 13H, 34, 37; Trailer 6C	2/23/1988	2/22/2037
Bailey	30	Bldg 6W	03/10/2020	03/09/2040
Bailey	31	28RT	5/20/2020	5/19/2040
State Univ. (Plots 80 & 82)	5A	Bldgs 2, 2A	3/1/1986	2/29/2036
State Univ. (Plots 80 & 82)	11	Bldgs 70A, 70B	11/9/1959	5/31/2025
State Univ. (Plots 80 & 82)	21	Bldg 54	3/1/1965	5/31/2025
State Univ. (Plots 80 & 82)	27	Bldgs 6, 15, 80; Trailer 80A	2/23/1988	2/22/2037
State Univ. (Simmons Plot)	14	Bldgs 73, 73A	10/13/1960	5/31/2025
State Univ. (Simmons Plot)	15	Bldgs 74, 74F, 84, 84B; Trailers 74A, 74B	1/19/1961	5/31/2025
State Univ. (Simmons Plot)	19	Bldgs 62, 62B, 62G; Trailers 62A, 62C, 62D, 62V	12/1/1962	5/31/2025
State Univ. (Simmons Plot)	23	Bldg 61	9/1/1969	5/31/2025
State Univ. (Simmons Plot)	25	Bldgs 83, 85B, 86; Trailer 83S	9/1/1978	8/31/2028
State Univ. (Simmons Plot)	25A	Bldg 85; Trailers 85D, 85E, 85F, 85G, 85H, 85J, 85K, S85, S85A, S85B, S85C	9/1/1991	8/31/2041
State Univ. (Simmons Plot)	28	Bldgs 31, 66, 67, 72, 72A, 72B, 72C; Trailers 30E, 30F, 30U, 30V, 31A, 31B, 31C, 31K, 67L	6/2/2003	6/1/2053
State Univ. (Plot O)	12	Bldgs 33C, 68, 69, 75, 75A, 75B, 75D; Trailers 69S, 75F, 75P, 75R, 75Z, S75	11/9/1959	5/31/2025
State Univ. (Plot O)	17	Bldgs 77, 77A, 77H, 79; Trailers 77J, 77K, 77L, 77M, 77N, 79A	3/2/1962	5/31/2025
State Univ. (Plot O)	18	Bldgs 75C, 76, 78; Trailers 76C, 76D, 76H, 76L, 76M	12/1/1962	5/31/2025
State Univ. (Plot O)	29	Bldg 36A	6/2/2003	6/1/2053

*Table updated as of 02/20/2020. The above summary table is for informational purposes and is not intended to change applicable rights or obligations; refer to original ground lease, supplements, and other provisions of the contract for terms and conditions that apply.

ATTACHMENT J.5

APPENDIX E

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.6

APPENDIX F

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.7

APPENDIX G

PURCHASING SYSTEM REQUIREMENTS

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

Appendix G

Purchasing System Requirements

This Appendix and Clause I.114, "Contractor Purchasing System," sets forth DOE requirements applicable to the Purchasing System established under the Contract for the management of Ernest Orlando Lawrence Berkeley National Laboratory.

Subcontracts Not Binding on DOE

As used herein, the term "subcontracts" includes subcontracts, purchase orders, letter agreements, basic ordering agreements, consultant agreements, micro-purchases, EDI and FACNET transactions, and lower tier subcontracts under cost-type subcontracts (in an unbroken cost-type chain) that represent costs properly chargeable to the Prime Contract.

All applicable subcontracts shall be made in the name of the Contractor, shall not bind or purport to bind the Government, shall not relieve the Contractor of any obligation under the Prime Contract (including, among other things, the obligation to properly supervise and coordinate the work of subcontractors), and shall contain such provisions as are required by this Contract or as DOE may prescribe based on Federal statutes and regulations, or DOE Orders and Policies.

DOE Approval

Prior DOE written approval is required for the following actions:

1. Advanced Acquisition Plans, Solicitations, and awards of Subcontracts valued at \$10,000,000 or greater, including any subsequent modification that increases the total estimated costs at or above \$10,000,000.
2. Except as otherwise expressly provided or directed, in writing, by DOE Patent Counsel with notification to the Contracting Officer, actions which involve any one of, or combination of, the following intellectual property matters:
 - a. Acquisition of software by negotiated lease or license;
 - b. Purchase of patents or patent license rights, including the payment of royalties and permits, or license fees;
 - c. Recognition of proprietary rights, including the recognition of technical data as trade secrets; or,
 - d. Any restriction of DOE's use of data procured under a subcontract.

3. Inter-Contractor Purchases (ICP's) with estimated costs exceeding \$1,000,000.00, including any subsequent modification that increases the total estimated costs.
4. The purchase of utilities defined as: steam, gas, electricity, telephone lines, water and sewage furnished to campus building space occupied by LBNL-funded personnel.
5. Updates to Subcontract General Provisions (GPs) or Standard Practices (SPs) as a result of changes to the federal regulations or contract DE-AC02-05CH 11231 are pre-authorized as administrative changes. Substantive changes to GPs or SPs will be submitted to the Contracting Officer (CO) for approval. All administrative changes in the SPs or GPs will be provided to the CO at least 5 business days prior to the release.
6. Intra-University Transactions (IUT) with estimated costs exceeding \$1,000,000.00 including any subsequent modification that increases the total estimated costs. Any IUT modification that extends the period of performance more than 5 years.

The above approval requirements do not eliminate any other requirement for review, concurrence, or approval of other proposed actions specified in the subject contract or DOE's right to require consent on any single or class of purchasing actions selected for special surveillance.

ATTACHMENT J.8

APPENDIX H

SMALL BUSINESS SUBCONTRACTING PLAN

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory
Contract No. DE-AC02-05CH11231**

Lawrence Berkeley National Laboratory (LBNL)
Small Business Subcontracting Plan – FY 2020

DATE: November 4, 2019

CONTRACTOR: The Regents of the University of California

ADDRESS: 1 Cyclotron Road, Berkeley, CA 94720

CONTRACT #: DE-AC02-05CH11231

ITEM/SERVICE: Management & Operation of Lawrence Berkeley National Laboratory

The following is hereby submitted as a Small Business Subcontracting Plan to satisfy the applicable requirements of Public Law 95-507 as implemented by FAR Clause 52.219-9.

1. The total estimated dollar value of all planned subcontracting (to all types of business concerns) under this contract is: \$385,000,000. The goals below are based on this projected spend. The amounts estimated to be available to small businesses are shown below.

The following percentage goals (expressed in terms of a percentage of total planned subcontracting dollars) are applicable to the contract cited above.

- (a) Small business concerns: 45.0% of total planned subcontracting dollars under this contract will go to subcontractors who are small business concerns.
- (b) Veteran-owned small business concerns (VOSB): 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are veteran-owned small business concerns. This percentage is included in the percentage shown under 2(a) above. Note: The VOSB goal will be primarily achieved by targeting opportunities towards the service-disabled veteran-owned small business (SDVOSB) concerns under the goal mentioned under 2(c) below.
- (c) Service-disabled veteran-owned small business concerns (SDVOSB): 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are service-disabled veteran-owned small business concerns. This percentage is included in the percentage shown under 2(a) and (b) above.
- (d) HUBZone small business concerns: 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are HUBZone small business concerns. This percentage is included in the percentage shown under 2(a) above.
- (e) Small disadvantaged business concerns (SDB): 5.0% of total planned subcontracting dollars under this contract will go to subcontractors who are small disadvantaged business concerns. This percentage is included in the percentage shown under 2(a) above.
- (f) Women-owned small business concerns (WOSB): 5.0% of total planned subcontracting dollars under this contract will go to subcontractors who are women-owned small business concerns. This percentage is included in the percentage shown under 2(a) above.

2. The following dollar values correspond to the percentage goals shown in 2 above.

- (a) Total dollars planned to be subcontracted to small business concerns: \$173,250,000.
- (b) Total dollars planned to be subcontracted to veteran-owned small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) above.
- (c) Total dollars planned to be subcontracted to service-disabled veteran-owned small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) and (b) above.
- (d) Total dollars planned to be subcontracted to HUBZone small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) above.
- (e) Total dollars planned to be subcontracted to small disadvantaged business concerns: \$19,250,000. This amount is included in the amount shown under 3 (a) above.
- (f) Total dollars planned to be subcontracted to women-owned small business concerns: \$19,250,000. This amount is included in the amount shown under 3 (a) above.

3. Anticipated principal products and/or services to be subcontracted under this contract to small business concerns are listed below along with the anticipated distribution to small, veteran-owned, service-disabled veteran-owned, HUBZone, small disadvantaged, and women-owned small business concerns:

CATEGORY	SB	VOSB	SDVOSB	HUB	SDB	WOSB
Architect-Engineer Services	X				X	X
Building/Construction Machinery	X					
Building/Construction Supply (eBuy Catalog)	X					
Chemicals (eBuy Catalog)	X					
Computer/Technology Services	X	X	X	X	X	X
Construction/Repair Services (DOE, MPP)	X	X	X		X	
Consultant Services	X				X	X
Design/Graphic Supply	X				X	X
Domestic Appliance	X					
Electrical Supply (eBuy Catalog)	X					
Electronic Component (eBuy Catalog)	X				X	X
Electronic Consumer Goods (eBuy Catalog)	X			X	X	X
Environmental Services	X					
Equipment Repair/Maintenance	X				X	X
Fabrication	X					
Furniture/Furnishings (eBuy Catalog)	X				X	X

CATEGORY	SB	VOSB	SDVOSB	HUB	SDB	WOSB
Gases, Bulk (eBuy Catalog)	X					
HEPA Filter (eBuy Catalog)	X					
Industrial Supply (eBuy Catalog)	X					
Isotopes (eBuy Catalog)	X					
IT Hardware (eBuy Catalog)	X			X	X	X
Laboratory Equipment (DOE Mentor Protégé Program)	X	X	X	X		
Landscaping Services	X					
Laser Equipment (DOE Mentor-Protégé Program)	X	X	X	X		
Lease, Equipment (DOE Mentor-Protégé Program)	X	X	X			
Office Equipment (eBuy Catalog)	X				X	X
Paper Material/Products (eBuy Catalog)	X				X	X
Research & Development	X					X
Respiratory Equipment (eBuy Catalog)	X					X
Safety Equipment (eBuy Catalog)	X					X
Security Equipment (eBuy Catalog)	X					X
Temporary Personnel	X			X	X	X
Tools/Machinery (eBuy Catalog)	X					X
Work Apparel Product (eBuy Catalog)	X					X

4. The following method was used in developing subcontract plan goals:

The Laboratory's FY 2020 subcontracting goals were based on subcontracting goals provided by the DOE and laboratory estimated subcontracting spend for FY 2020. The Laboratory will strive to meet or exceed these goals. The Laboratory has developed a number of initiatives for FY 2020 as explained below to meeting these goals with a focus on SDVOSB and WOSB subcontract awards.

5. The following methods were used to identify potential sources for solicitation purposes:

The Laboratory plans to utilize both outreach and in-reach activities to maximize opportunities to small businesses.

Outreach efforts to obtain sources and attract small businesses:

- Communicate with small business trade associations and related organizations, and attend small business conferences, training and trade fairs when possible. We will select from the list below:
 - DoD Western Regional Council for Small Business Education and Advocacy Training (Does not offer membership - usually 2 training events in California each year)
 - Procurement Technical Assistance Centers (PTAC) (Does not offer membership)

- Women's Business Enterprise Council-West (WBEC-West) (LBNL is a member)
- California Association of Public Procurement Officials (CAPPO) (LBNL is a member)
- National Contract Management Assn (NCMA) (LBNL is a member)
- Oakland and Berkeley Chambers of Commerce (LBNL is a member)
- DOE Annual Small Business Conference
- Sandia National Laboratories' annual small business event in Livermore
- Leverage resources such as:
 - Advertising subcontracting opportunities on FedBizOpps
 - System for Award Management (SAM)
 - SBA Dynamic Small Business Search
 - GSA, ICPT, UC Agreements with small businesses
 - DOE Mentor-Protégé Program participants, Other Than Small Business (OTSB) Supplier Diversity resources, Small Business specialists throughout the DOE complex, listings of available Small Business teaming arrangements and related resources
- Increase the size of the small business supplier pool
 - Small Business Program Officer (SBPO) to identify new potential participants for the DOE Mentor-Protégé Program targeting SDVOSB and WOSB suppliers

In-reach efforts to promote small business engagement and subcontracting:

- Enhance Small Business Directory and maintain the Small Business supplier section on the Procurement and Property Department website to allow easy access to Small Business information for procurement specialists and Laboratory end-users.
- Review and update relevant Procurement Standard Practices and provide training, as needed.
- Assist procurement specialists with developing bidders' lists for individual requirements to include small businesses.
- Assist procurement specialists, when necessary, in conducting market research for acquisitions greater than \$25,000, with increased emphasis on identifying possible SDVOSB and WOSB set-asides and non-competitive opportunities when appropriate.
- Include small business goals as an element of employee performance goals.
- Monitor small business performance against LBNL's small business goals and brief management on progress, risks to meeting goals and provide recommendations.
- To maximum extent practical, continue eCommerce (eBuy) strategy of primarily using small business suppliers. Currently 46 out of 48 eBuy catalogs are with small business suppliers.
- Promote SDVOSB and WOSB service providers to Laboratory end users, including four current Mentor-Protégé Program participants.

6. Indirect costs (check one below):

☒ have been,

☐ have not been included in the goals specified

7. The following individual will administer the subcontracting program:

Name: Roger Minami
Title: Small Business Program Officer (SBPO)
Address: 1 Cyclotron Road, MS 971-PROC, Berkeley, CA 94720
Telephone: 510-486-4883

This individual's specific duties, as they relate to the Laboratory's subcontracting program, are as follows:

- Conduct market research for requisitions over \$25,000, as needed, to maximize subcontracting opportunities for small business concerns. Market research to include advocacy for small business teaming/mentor-protégé opportunities, and noncompetitive recommendations when appropriate.
 - Identify requirements that can be set-aside for small businesses within multiple socio-economic categories.
 - Assist procurement personnel and technical end users with monitoring activities to assure compliance with subcontracting plans, including verification of supplier credentials in SAM.
 - Utilize various sources for the identification of small business concerns (see Section 6 above). This includes market introduction of potential sources to technical end users to assist them in their efforts to plan out requirements and increase small business participation at the Laboratory.
 - Attend a variety of small business events (see listing above).
 - Review new supplier capabilities and match/introduce them to procurement specialists and others where applicable.
 - Train procurement staff when needed on small business program requirements, processes and how to maximize small business opportunities.
 - Assist procurement specialists to document reasons for not selecting the lowest bids or bids within fair market value to justify small business awards.
 - Monitor team and department performance against socio-economic goals. Brief management on progress, risks to meeting goals and provide recommendations.
 - Prepare and submit required reports.
8. The following efforts will be taken by the SBPO to assure that small business, service-disabled veteran owned, HUBZone small business, small disadvantaged business and women-owned business concerns will have an equitable opportunity to compete for subcontracts:
- (a) Advocate for SB set-asides, teaming/mentor-protégé opportunities and sole-source SB awards when appropriate
 - (b) Monitor team socio-economic performance against the goals (Good Faith Effort)
 - (c) Expand the mentor-protégé pilot program to target opportunities for SDVOSB and WOSBs
9. Lawrence Berkeley National Laboratory agrees that FAR 52.219-8 (*Utilization of Small Business Concerns*) will be included in all subcontracts (except subcontracts for commercial items \$700,000 or less) and FAR 52.219-9 (*Small Business Subcontracting Plan*) in all subcontracts greater than \$700,000 (\$1,500,000 for construction), with the exception of subcontracts for commercial items, if subcontract involves any further subcontracting opportunities. Such plans will be reviewed by comparing them

with the provisions of FAR 52.219-9, and assuring that all minimum requirements of an acceptable subcontracting plan has been satisfied for maximum SB participation. The acceptability of percentage goals shall be determined on a case-by-case basis depending on the supplies/services involved and the availability of potential small business subcontractors. Once approved and implemented, plans will be monitored through the submission of periodic reports, and subcontracting program progress. We will discuss relevant goal attainment issues of SB subcontract plan holders when needed.

10. Lawrence Berkeley National Laboratory agrees to submit periodic reports and cooperate in any studies or surveys as may be required by the contracting agency or the Small Business Administration in order to determine the extent of compliance with the subcontracting plan and with the clause entitled "Utilization of Small Business Concerns" contained in the contract. We further agree to submit The Individual Subcontracting Report for Individual Contracts (ISR due at the end of April and October), and the Summary Subcontract Report (SSR due at the end of October), in accordance with the instructions outlined in the government wide eSRS Subcontracting Reporting System located at www.esrs.gov.

Additionally, we will ensure that our subcontractors will submit eSRS reports, as applicable.

11. LBNL agrees to maintain at least the following types of records to document compliance with this small business subcontracting plan:
 - (a) Small Business source lists associated with previous requirements for future market research needs. Source list to include organizations contacted during the market research (if applicable).
 - (b) Records on each subcontract solicitation resulting in an award of more than \$150,000, indicating on each solicitation
 - i. Whether small business concerns were solicited, and if not, why not;
 - ii. Whether service-disabled veterans-owned small business concerns were solicited, and if not, why not;
 - iii. Whether HUBZone small business concerns were solicited, and if not, why not;
 - iv. Whether small disadvantaged business concerns were solicited, and if not, why not;
 - v. Whether women-owned small business concerns were solicited, and if not, why not; and
 - vi. If applicable, the reason award was not made to a small or small disadvantaged business concern.
 - (c) On a subcontract-by-subcontract basis, records to support award data including the name, address and business size of each subcontractor.

12. Other Assurances:

- (a) We have not and will not prohibit any subcontractor from discussing with our Contracting Officer any material matter pertaining to payment to, or utilization of, a subcontractor.
- (b) We have and will continue to pay our small business subcontractors on time and in accordance with the terms and conditions of the underlying subcontract and notify the contracting officer when we make either a reduced or an untimely payment to a small business subcontractor in accordance with the requirements in clause I.165 (FAR 52.242-5, Payments To Small Business Subcontractors) in our DOE prime contract.

This subcontracting plan was submitted by:

Signature:	<u>Edna Annis</u>
Name:	<u>Edna P. Annis</u>
Title:	<u>Chief Procurement Officer</u>
Date:	<u>11/4/2019</u>
Phone Number:	<u>510-486-5824</u>

Approval:

Signature:	<u>Michelle N. Sheldon</u>
Name:	<u>Michelle Sheldon</u>
Title:	<u>DOE Contracting Officer</u>
Date:	<u>12/9/2019</u>
Phone Number:	<u>510-486-4298</u>

ATTACHMENT J.9

APPENDIX I

DOE DIRECTIVES/LIST B

Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory

Contract No DE-AC02-05CH11231

Number	Title	CRD Applicability	Effective Date	Implementation Plan
DOE O 130.1	Budget Formulation	All	6/1/2005	No
DOE O 142.3A Chg 2 (LtdChg)	Unclassified Foreign Visits and Assignments Program	All (Requirements for remote users will be documented in the Site Security Plan)	4/8/20	No
DOE O 150.1A	Continuity Programs	All	7/3/2014	No
DOE O 151.1D Chg 1 (MinChg)	Comprehensive Emergency Management System	All	12/16/2019	Yes Full implementation by 3/31/2018
DOE O 200.1A Chg 1 (MinChg)	Information Technology Management	All	6/29/2017	No
DOE O 205.1C	Department of Energy Cybersecurity Program	All (Revisions to the SC-CSPP that change contractor requirements will be evaluated for impact under the existing contract Management processes)	7/24/2019	No
DOE O 206.1 Chg 1 (MinChg)	Department of Energy Privacy Program	All See Appendix P for Advanced Understanding regarding Implementation.	6/20 /19	No
DOE O 206.2	Identity, Credential, and Access Management (ICAM)	All	6 /3/2013	No
DOE O 210.2A	DOE Corporate Operating Experience Program	All	12/2/2011	No
DOE O 221.1B	Reporting Fraud, Waste, and Abuse To The Office of Inspector General	All	3/16 /2017	No
DOE O 221.2A	Cooperation With The Office of Inspector General	All	3/7/2011	No
DOE O 225.1B	Accident Investigations	All (Cooperation with DOE investigation only)	12/2/2011	No
DOE O 227.1	Independent Oversight Program	All	4/20/2012	No
DOE O 231.1B Admin Chg 1	Environment, Safety and Health Reporting	All	7/3/2014	No
DOE O 232.2A Chg 1 (MinChg)	Occurrence Reporting and Processing of Operations Information	All	12/16/2019	Yes Full implementation by 6/29/2018
DOE O 241.1B Chg 1 (AdminChg)	Scientific and Technical Information Management	All	3/16/2017	No
DOE O 243.1B Admin Chg 1	Records Management Program	All	7/3/2014	No
DOE O 252.1A Admin Chg 1	Technical Standards Program	All	7/3/2014	No
DOE O 410.2 Admin Chg 1	Management of Nuclear Materials	All	10/2/2016	Yes Full implementation by 9/30/2019
DOE O 413.1B	Internal Control Program	All	10/28/2008	No
DOE O 413.2C Chg 1 (MinChg)	Laboratory Directed Research and Development	All	3/28/2019	No
DOE O 413.3B Chg 5 (MinChg)	Program and Project Management for the Acquisition of Capital Assets	All	3/28/2019	No

DOE O 414. 1D Admin Chg 1	Quality Assurance	All	6/3/2013	No
DOE O 415.1	Information Technology Project Management	All	6/29/2017	No
DOE O 420.1C Chg 3 (LtdChg)	Facility Safety	Chapter II (Fire Protection) and Chapter IV (Natural Phenomena Hazards Mitigation)	4/8/20	No
DOE O 420.2C Chg 2 (MinChg)	Safety of Accelerator Facilities	All And Paragraph 3C- Exemptions/Equivalencies	12/2/2011	No
DOE O 435.1 Chg1	Radioactive Waste Management	All	12/2/2011	No
DOE O 436.1	Departmental Sustainability	All	9/12/2012	No
DOE O 440.2C Admin Chg1	Aviation Management and Safety	All	9/1 2/2012	No
DOE O 442.1B	Department of Energy Employee Concerns Program	All	6/20/19	Yes Full implementation by 10/1/2019
DOE O 442.2 Chg 1 (PgChg)	Differing Professional Opinions for Technical Issues involving Environment, Safety, and Health Technical Concerns	All	3/16/2017	No
DOE O 443. 1C	Protection of Human Research Subjects	All	4/8/20	No
DOE O 456.1A	The Safe Handling of Unbound Engineered Nanoparticles	All	3/16/2017	No
DOE O 458.1 Admin Chg3	Radiation Protection of the Public and Environment	All	7/3/2014	No
DOE O 460.1D	Hazardous Materials Packaging and Transportation Safety	All	3/16/2017	Yes Full implementation by 4/1/2018
DOE O 470.3C	Design Basis Threat (DBT) Order	Applicable requirements will be identified once the site protection level has been determined prior to full Implementation.	6/29/2017	Yes Full implementation by 9/30/2022
DOE O 470.4B Chg 2 (MinChg)	Safeguards and Security Program, Attachment I Contractor Requirements	All	6/29/2017	Yes Full implementation by 10/1/201 7
DOE O 470.5	Insider Threat Program	All	10/2/2016	Yes
DOE O 471.3 Admin Chg 1	Identifying and Protecting Official Use Only Information	All	12/2/2014	Full implementation by 10/2/2017 No
DOE M 471.3-1 Admin Chg	Manual for Identifying and Protecting Official Use Only Information	All	12/2/2014	No
DOE O 472.2 Chg 1	Personnel Security	All	10/2/2016	Yes Full implementation by 9/30/2019
DOE O 473.3A Chg 1 (MinChg)	Protection Program Operations	All	3/28/2019	Yes Full implementation by 4/1/2018

DOE O 474.2 Chg 4 (PgChg)	Nuclear Material Control and Accountability	All	3/16/2017	Yes Full implementation by 9/15/2017
DOE O 475.1	Counterintelligence Program	Sections 3a; 3b(1), (3), (7), (8), (17-21); 3d and 4	6/1 /2005	No
DOE O 483.1B Chg 2 (LtdChg)	DOE Cooperative Research and Development Agreements	All	4/8/20	Yes Full implementation bv 7/1/2019
DOE O 484.1 Admin Chg 2	Reimbursable Work for the Department of Homeland Security	All	12/2/2014	No
DOE P 485.1A	Foreign Engagements with DOE National Laboratories	All	4/8/20	No
DOE O 486.1	Department of Energy Foreign Government Talent Recruitment Programs	All	7/24/20 19	Yes Full implementation by 1 2/31 / 2019
DOE O 522.1A	Pricing of Departmental Materials and Services	All In accordance with DOE Order 522.1A, (Contractor Requirements Document), Pricing of Departmental Materials and Services, the prohibition for depreciation and imputed interest charges to non-DOE entities is applicable to DOE owned assets and does not apply to University owned assets deployed for performance of work under this contract.	3/28/2019	No
DOE O 534.1B	Accounting	All	6/1/2005	No
DOE O 550.1 Chg 1 (LtdChg)	Official Travel	All	4/8/20	No

Environment, Safety and Health Standard Set for LBNL (reference only)
42 USC, Chapter 82, 6901 et seq., Resource Conservation and Recovery Act (RCRA), as amended
10 CFR 71, Subparts D,E,F, (71.31 - 71.77),Transportation of radioactive materials-package approval
10 CFR 20, Subpart K, Section 20, 2005, Disposal of Specific Wastes
10 CFR 20, Subpart K, Section 20, 2003, Disposal by Release into Sanitary Sewerage
10 CFR 708, DOE Contractor Employee Protection Program
10 CFR 745, DOE, Protection of Human Subjects
10 CFR 820, Procedural Rules for Department of Energy Nuclear Activities
10 CFR 830, Nuclear Safety Management
10 CFR 835, Occupational Radiation Protection
10 CFR 850, Chronic Beryllium Disease Prevention Program
10 CFR 851, Worker Safety and Health Program, including standards incorporated by reference in 10 CFR 851.23 and 10 CFR 851.27
10 CFR 1008, Records Maintained on Individuals (Privacy Act)
10 CFR 1021, National Environmental Policy Act Implementing Procedures
10 CFR 1022, Compliance with Floodplain / Wetlands Environmental Review Requirements
40 CFR 61, NESHAPs, applicable subparts
40 CFR 260 - 279, Hazardous Waste

ATTACHMENT J.10

APPENDIX J

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.11

APPENDIX K

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.12

APPENDIX L

Reserved

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.13

APPENDIX M

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.14

APPENDIX N

Reserved

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.15

APPENDIX O

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.16

APPENDIX P

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. 1105		3. EFFECTIVE DATE See Block 16C		4. REQUISITION/PURCHASE REQ. NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY SC Chicago Service Center Office of Science - Chicago U.S. Department of Energy 9800 South Cass Avenue Lemont IL 60439		CODE 892430		7. ADMINISTERED BY (If other than Item 6) Berkeley Site Office U.S. Department of Energy One Cyclotron Rd., MS90-1023 Berkeley CA 94720		CODE 06008	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) THE REGENTS OF THE UNIVERSITY OF CALIFORNIA Attn: LOURDES DEMATTOS 1111 FRANKLIN ST 11TH FL OAKLAND CA 94607				(x)			
				9B. DATED (SEE ITEM 11)			
				10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC02-05CH11231			
CODE 003985512		FACILITY CODE		10B. DATED (SEE ITEM 13) 04/19/2005			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended. <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or electronic communication which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by letter or electronic communication, provided each letter or electronic communication makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. ACCOUNTING AND APPROPRIATION DATA (If required)							
13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.						
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation data, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).						
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:						
X	D. OTHER (Specify type of modification and authority) Bilateral FAR 43.103(a) and F.2 Award Term Incentive Special						
E. IMPORTANT: Contractor <input type="checkbox"/> is not <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.							
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) DUNS Number: 003985512 The purpose of this modification is to extend the contract in accordance with Clause F.2 "Award Term Special" from May 31, 2015 to May 31, 2025, update contract terms and conditions and finally, in accordance with Clause B.3 "Performance and Other Incentives" establish the maximum performance fee for each award term earned. See attached conformed contract. All other terms and conditions remain the same. End of modification. THIS IS A PERFORMANCE-BASED MANAGEMENT CONTRACT (P BMC) IS FOR THE MANAGEMENT AND OPERATION OF THE ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY (LBNL). THE CONTRACTOR SHALL IN ACCORDANCE WITH THE PROVISIONS OF THIS CONTRACT ACCOMPLISH THE MISSIONS AND PROGRAMS ASSIGNED BY THE U.S. DEPARTMENT OF ENERGY (DOE) AND MANAGE AND OPERATE THE LABORATORY. THE Continued ... Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect.							
15A. NAME AND TITLE OF SIGNER (Type or print)				16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)			
				Maria C. Robles			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED DE-AC02-05CH11231/1105	PAGE	OF
		2	3

NAME OF OFFEROR OR CONTRACTOR
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	LABORATORY IS ONE OF THE DOE'S OFFICE OF SCIENCE (SC) MULTI-PROGRAM LABORATORIES. THE LABORATORY IS A FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTER (FFRDC) ESTABLISHED IN ACCORDANCE WITH THE FEDERAL ACQUISITION REGULATION (FAR) PART 35 AND OPERATED UNDER THIS MANAGEMENT AND OPERATING (M&O) CONTRACT AS DEFINED IN FAR 17.6 AND DEAR 917.6. Payment: Payment - Direct Payment from U.S. Dept of Treasury Period of Performance: 06/01/2005 to 05/31/2025				

PART I

SECTION B

SUPPLIES OR SERVICES AND PRICES/COSTS

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PART I

SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

B.1 - SERVICE BEING ACQUIRED

The Contractor shall provide the personnel, facilities, equipment, materials, supplies, and services, (except such facilities, equipment, materials, supplies and services as are furnished by the Government), and shall perform in a quality, timely, and cost-effective manner the requirements and work set forth in this contract.

B.2 - OBLIGATION OF FUNDS AND FINANCIAL LIMITATIONS

The amount presently obligated by the Government with respect to this contract is specified in Clause I.150 - DEAR 970.5232-4, OBLIGATION OF FUNDS (PREV. I.104). Other financial limitations are also specified in Clause I.150 - DEAR 970.5232-4, OBLIGATION OF FUNDS (PREV. I.104).

B.3 - PERFORMANCE AND OTHER INCENTIVE FEES

- (a) The transition activities shall be performed on a cost-reimbursement basis up to \$237,094.00, and no fee shall be paid for these activities.
- (b) In implementation of Clause I.126 - DEAR 970.5215-1, TOTAL AVAILABLE FEE: BASE FEE AMOUNT AND PERFORMANCE FEE AMOUNT (PREV. I.82), the Parties have agreed that the maximum available performance fees that may be earned by the Contractor in accordance with the provisions of Appendix B, Performance Evaluation and Measurement Plan, for the performance of the work under this contract.

Commencing June 1, 2005 are as follows:

June 1, 2005 through September 30, 2005	\$1,498,500
October 1, 2005 through September 30, 2006	\$4,500,000
October 1, 2006 through September 30, 2007	\$4,500,000
October 1, 2007 through September 30, 2008	\$4,500,000
October 1, 2008 through September 30, 2009	\$4,500,000
October 1, 2009 through May 31, 2010	\$3,001,500

Commencing June 1, 2010 are as follows:

June 1, 2010 through September 30, 2010	\$1,498,500
October 1, 2010 through September 30, 2011	\$4,500,000
October 1, 2011 through September 30, 2012	\$4,500,000
October 1, 2012 through September 30, 2013	\$4,500,000
October 1, 2013 through September 30, 2014	\$4,500,000
October 1, 2014 through May 31, 2015	\$3,001,500

Commencing June 1, 2015 are as follows:

June 1, 2015 through September 30, 2015	\$1,500,000
October 1, 2015 through September 30, 2016	\$6,200,000
October 1, 2016 through September 30, 2017	\$6,400,000
October 1, 2017 through September 30, 2018	\$6,600,000
October 1, 2018 through September 30, 2019	\$6,700,000
October 1, 2019 through May 31, 2020	\$4,600,000

Commencing June 1, 2020 are as follows:

June 1, 2020 through September 30, 2020	\$ 2,694,575
October 1, 2020 through September 30, 2021	\$ 7,294,575
October 1, 2021 through September 30, 2022	\$ 7,294,575
October 1, 2022 through September 30, 2023	\$ 7,294,575
October 1, 2023 through September 30, 2024	\$ 7,294,575
October 1, 2024 through May 31, 2025	\$ 4,863,050

- (c) If DOE determines that the Contractor has earned any Award Term after May 31, 2019, in accordance with the provisions of Clause F.2 - AWARD TERM INCENTIVE (SPECIAL), the Parties have agreed that the maximum available annual performance fee shall be as specified above.
- (d) The maximum available annual performance fee that may be earned by the Contractor for any additional extensions of the period of performance beyond said five years shall be subject to negotiation between the Parties consistent with the Department of Energy Acquisition Regulation (DEAR) in effect at the time the fee is negotiated.
- (e) At the end of each fiscal year, there shall be no adjustment in the amount of the maximum available performance fee based on differences between any estimate of cost for performance of the work and the actual cost for performance of the work. Fee is subject to adjustment only –
 - (1) under the provisions of Clause I.158 - DEAR 970.5243-1, CHANGES (PREV. I.113); or
 - (2) for a +/- 10 percent change in the estimated fee base.

- (f) Any adjustment in the amount of the fee under the provisions of paragraph (e) for the fees specified in paragraphs (b) and (c) above, or negotiation of fee under paragraph (d) above, shall take into consideration the ratio between the Contractor's fee specified in paragraphs (b) and (c) above of the original contract and the maximum fees specified in Section L.9(b) of the Request for Proposal No. DE-RP02-05CH11231, dated December 15, 2004.

B.4 - ALLOWABILITY OF SUBCONTRACTOR FEE

If the Contractor is part of a consortium, joint venture, and/or other teaming arrangement, the team shall share in this Contract fee structure and separate additional subcontractor fee for teaming partners shall not be considered an allowable cost under the contract. If a subcontractor, supplier, or lower-tier subcontractor is a wholly owned, majority owned, or affiliate of any team member, any fee or profit earned by such entity shall not be considered an allowable cost under this contract unless otherwise approved by the Contracting Officer.

B.5 - PROVISIONAL PAYMENT OF PERFORMANCE FEE

The Contractor may, subject to the approval of the Contracting Officer, be paid provisional performance fee payments consistent with the provisions of clause I.148 - DEAR 970.5232-2, PAYMENTS AND ADVANCES (PREV. I.102). The Contractor shall promptly refund to the Government any amount of provisional performance fee paid that exceeds the amount of performance fee earned.

PART I

SECTION C

DESCRIPTION/SPECS./WORK STATEMENT

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PART I

SECTION C - DESCRIPTION/SPECS./WORK STATEMENT

C.1 - INTRODUCTION

This Performance-Based Management Contract (PBMC) is for the management and operation of the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) (the Laboratory). The Contractor shall, in accordance with the provisions of this contract, accomplish the missions and programs assigned by the U.S. Department of Energy (DOE) and manage and operate the Laboratory. The Laboratory is one of the DOE's Office of Science (SC) multi-program laboratories. The Laboratory is a Federally Funded Research and Development Center (FFRDC) established in accordance with the Federal Acquisition Regulation (FAR) Part 35 and operated under this management and operating (M&O) contract, as defined in FAR 17.6 and DEAR 917.6.

This contract reflects the Department's effort to enable the Contractor to achieve more highly effective and efficient management of the Laboratory, outstanding science and technology results in a safe and secure environment, more cost effective operations, and enhanced Contractor accountability. Toward this end, this contract establishes a process for minimizing the use of unnecessary DOE orders by tailoring existing and new orders that will enable the Contractor to propose alternate standards, which rely primarily on state and federal laws and regulations, and management processes based on national standards, certified systems and best business practices. Contractor managers shall be held more accountable for maintaining risk mitigation as Laboratory processes and assurance models change.

This contract reflects the application of performance-based contracting approaches and techniques which emphasize results/outcomes and minimize "how to" performance descriptions. The Contractor has the responsibility for total performance under the contract, including determining the specific methods for accomplishing the work effort, performing quality control, and assuming accountability for accomplishing the work under the contract. Accordingly, this PBMC provides flexibility, within the terms and conditions of the contract, to the Contractor in managing and operating the Laboratory.

Desired results of this contract include improved Contractor operational efficiencies, allocations of Contractor oversight resources to direct mission work, and streamlined and more effective federal line management focused on a system-based approach to federal oversight with increased reliance on the results obtained from certified, nationally recognized experts and other independent reviewers.

Moreover, science and technology have improved peer review metrics, stretch goals, and incentives to achieve extraordinary results.

Under this PBMC, it is the Contractor's responsibility to develop and implement innovative approaches and adopt practices that foster continuous improvement in accomplishing the mission of the Laboratory. DOE expects the Contractor to produce effective and efficient management structures, systems, and operations that maintain high levels of quality and safety in accomplishing the work required under this contract, and that to the extent practicable and appropriate, rely on national, commercial, and industrial standards that can be verified and certified by independent, nationally recognized experts and other independent reviewers. The Contractor shall conduct all work in a manner that optimizes productivity, minimizes waste, and fully complies with all applicable laws, regulations, and terms and conditions of the contract.

To the maximum extent practical, this PBMC shall:

- (a) Describe the requirements in terms of outcome or results required rather than the methods of performance of the work;
- (b) Use a limited number of systems-based measurable performance standards (i.e., terms of quality, timeliness, quantity, etc.) to drive improved performance and increased effective and efficient management of the Laboratory;
- (c) Provide for appropriate financial incentives (e.g., fee) when performance standards and contract requirements are achieved;
- (d) Specify procedures for reduction of fee when services are not performed or do not meet contract requirements; and
- (e) Include non-financial performance incentives where appropriate.

C.2 - IMPLEMENTATION OF DOE'S MISSION FOR LBNL (2008)

The Contractor shall develop a compelling plan to implement the DOE's SC strategic mission for the Laboratory, as defined below in C.4(b)(1) "Laboratory Mission." Within this Plan, the Contractor will map the Laboratory's core competencies to this Laboratory mission. The Contractor will highlight the unique roles the Laboratory fills in SC's capability to accomplish its missions and, more broadly, that of the Department. Upon approval by the Department, the Plan shall be captured within the Annual Laboratory Plan (ALP), which shall be updated annually in accordance with instructions to be issued by the Office of Science.

The Performance Evaluation and Measurement Plan, as called for within the clause entitled, "Standards of Contractor Performance Evaluation", identifies performance outcomes and indicators, which are updated and agreed upon by the Parties annually, as standards against which the Contractor's overall performance of scientific, technical, operational, and/or managerial obligations under this contract shall be assessed.

C.3 - PERFORMANCE EXPECTATIONS, OBJECTIVES, AND MEASURES

C.3.1 - Core Expectations

C.3.1.1 - General

The relationship between DOE and its national laboratory management and operating contractors is designed to bring best practices for research and development to bear on the Department's missions. Through application of these best practices, the Department seeks to assure both outstanding programmatic and operational performance of today's research programs and leadership to assure the relevance to DOE's mission needs, the productivity and quality of its programs to lead the world in meeting tomorrow's needs. Accordingly, DOE has substantial expectations of the Contractor in the areas of: program delivery and mission accomplishment; laboratory stewardship; and excellence in laboratory operations and financial management.

C.3.1.2 - Program Development and Mission Accomplishment

The Contractor is expected to provide the highest quality of planning, management, and execution of assigned research and development programs. The Contractor is expected to execute assigned programs so as to achieve the greatest possible impact on DOE's mission objectives, to aggressively manage the Laboratory's science and technology capabilities and intellectual property to meet these objectives, and to initiate innovative concepts and research proposals that are in concert with DOE missions. The Contractor shall propose work that will advance DOE's mission objectives and that is aligned to Laboratory capabilities. The Contractor shall strive to meet the highest standards of scientific quality and productivity, "on-time, on budget, as-promised" delivery of program deliverables, and first-rate service to the research community through user facility operation.

The Contractor is expected to demonstrate benefit to the nation from R&D investments by transferring technology to the private sector and supporting excellence in science and mathematics education consistent with achieving continuous progress towards DOE's core missions.

C.3.1.3 - Laboratory Stewardship

The Contractor is expected to be an active partner with DOE in assuring that the Laboratory is renewed and enhanced to meet future mission needs. Within the constraints of available resources and other Contract requirements, the Contractor, in partnership with DOE, shall:

- (a) Maintain an understanding of DOE's evolving Laboratory vision and long-term strategic plan. Address the co-evolution of Laboratory capabilities to meet anticipated DOE and national needs.
- (b) Attract, develop, and retain an outstanding work force, with the skills and capabilities to meet DOE's evolving mission needs.
- (c) Renew and enhance research facilities and equipment so that the Laboratory remains at the state-of-the-art over time and is well-positioned to meet future DOE needs.
- (d) Build and maintain a financially viable portfolio of research programs that generates the resources required to renew and enhance Laboratory research capabilities over time.
- (e) Maintain a vibrant relationship with the broader research community, to enhance the intellectual vitality and research relevance of the Laboratory, and to bring the best possible capabilities to bear on DOE mission needs through partnerships.
- (f) Build a positive, supportive relationship founded on openness and trust with the community and region in which the Laboratory is located.

C.3.1.4 - Operational and Financial Management Excellence

The Contractor is expected to effectively and efficiently manage and operate the Laboratory through best-in-class management practices designed to foster world-class research while assuring the protection and proper maintenance of DOE research and information assets, the health and safety of Laboratory staff and the public, and the environment. The Contractor is expected to operate the Laboratory so as to meet all applicable laws, regulations, and requirements. The Contractor is expected to

manage the Laboratory cost-effectively, while providing the greatest possible research output per dollar of research investment, and, accordingly, to develop and deploy management systems and practices that are designed to enhance research quality, productivity, and mission accomplishment consistent with meeting operational requirements.

C.3.2 - Performance Evaluation Expectations

The performance expectations of this contract are broadly set forth in this Section and reflect the DOE's minimum needs and expectations for Contractor performance. Specific performance work statements, performance standards (measures applied to results/outputs), acceptable performance levels (performance expectations), acceptable quality levels (permissible deviations from performance expectations), and related incentives shall be established annually, or at other such intervals determined by the DOE to be appropriate. The related incentives may be monetary, or where monetary incentives are not desirable or considered effective, the Contractor's performance may be used as a factor which directly affects the past performance report card, or a factor in a decision to reduce or increase DOE oversight or Contractor reporting, as appropriate.

In performance under this contract, the Contractor shall be evaluated within the following general performance goals and expectations:

- (a) Science and Technology (S&T) - The Contractor will deliver innovative, forefront science and technology aligned with DOE strategic goals in a safe, environmentally sound, and efficient manner, and will conceive, design, construct, and operate world-class user facilities.
 - (1) Quality of S&T: Produce original, creative scientific output that advances science and technology while achieving sustained scientific progress and impact that is clearly recognized by the technical community.
 - (2) Relevance to DOE Missions and National Needs: Conduct the highest quality scientific research to advance the missions of DOE and other national

programs and contributes to U.S. leadership in international scientific and technical communities.

- (3) Success in Constructing and Operating Research Facilities & Equipment: Provide quality strategic planning for facilities/equipment needed to insure the Laboratory can meet its S&T missions today and in the future, while effectively and efficiently maintaining current S&T facilities and equipment and providing effective, efficient operation of user facilities.
 - (4) Effectiveness and Efficiency of Research Program Management: Provide for effective stewardship of capabilities, expert delivery, and success in relationship and risk management.
- (b) Laboratory Leadership, Management and Operations - The Contractor will provide leadership to assure mission accomplishment and will manage and enhance operations and management processes to provide an effective and efficient work environment that enables the execution of the LBNL mission in a manner responsive to customer and stakeholder expectations.

C.3.3 - Performance Objectives and Measures

The results-oriented performance objectives of this contract are stated in the Performance Evaluation and Measurement Plan (Appendix B), and/or in the Work Authorization Directives issued annually in accordance with the special clause entitled, "Long-Range Planning, Program Development and Budgetary Administration". The Contractor shall develop a five-year Institutional Plan for the overall direction of the Laboratory and for the accomplishment of these objectives. The Plan shall be actively maintained and annually updated in accordance with Institutional Planning instructions issued by the DOE Site Manager. The objectives shall be accomplished within an overall framework of management and operational performance requirements and standards contained elsewhere in this contract. To the maximum extent practicable, these requirements and standards have also been structured to reflect performance-based contracting concepts, including the clause entitled, "Application of DOE Contractor Requirement Documents", which permits the Contractor to propose to the Contracting Officer alternative and/or

tailored approaches based on national, commercial or industrial standards and best business practices to meet the outcomes desired by the Government.

DOE's Quality Assurance/Surveillance Plan (QASP) for evaluating the Contractor's performance under the contract shall consist primarily of the Performance Evaluation and Measurement Plan (PEMP) as called for within the Part II, Section I contract clause entitled, "Total Available Fee: Base Fee Amount and Performance Fee Amount". The QASP establishes the process DOE shall use to ensure that the Contractor has performed in accordance with the performance standards and expectations. The QASP shall summarize the performance standards, expectations and acceptable quality levels for each task; describe how performance will be monitored and measured; describe how the results will be evaluated; and state how the results will affect contract payment.

The Contractor shall develop and implement a Laboratory assurance process, acceptable to the Contracting Officer, which provides reasonable assurance that the objectives of the Contractor's management systems are being accomplished and that the systems and controls will be effective and efficient. The Contractor's assurance process shall reflect an understanding of the risks, maintain mechanisms for eliminating or mitigating the risks, and maintain a process to ensure that the management systems and their attendant assurance process(es) meet contract requirements.

C.4 - STATEMENT OF WORK

(a) General.

The Contractor shall, in accordance with the provisions of this contract, provide the intellectual leadership and management expertise necessary and appropriate to manage, operate, and staff the Lawrence Berkeley National Laboratory (the Laboratory); to accomplish the research mission and roles assigned by the Department of Energy (DOE) to the Laboratory; and to perform the work described in this Statement of Work (SOW). The DOE research activities are assigned through strategic planning, program coordination, and cooperation between the Laboratory and DOE.

Because the research activities of the Laboratory are dynamic, this SOW is not intended to be all inclusive or restrictive, but is intended to provide a broad

framework and general scope of the work to be performed at the Laboratory during the term of the contract. This SOW does not represent a commitment to, or imply funding for, specific projects or programs. All projects and programs will be authorized individually by DOE and/or other work sponsors in accordance with the provisions of this contract.

All work under this contract shall be conducted in a manner that will protect the environment and assure the safety and health of employees and the public. This objective is to be accomplished by the Laboratory implementing an Integrated Safety Management System that includes an Environmental Management System. In performing the contract work, the Laboratory shall implement appropriate program and project management systems to track progress and pursue cost effectiveness in work activities; develop integrated plans and schedules to achieve program objectives, incorporating input from DOE and stakeholders; maintain sufficient technical expertise to manage activities and projects throughout the life of a program; maintain Laboratory facilities and infrastructure as necessary to accomplish assigned missions; and utilize appropriate technologies and management systems to improve cost efficiency and performance.

(b) Mission and Major Programs

(1) Laboratory Mission. In support of major DOE sponsor organizations (see C.4(b)(2)) that evaluate the Laboratory's program performance, the central mission of the Laboratory is to provide scientific leadership needed to carry out the world class science and technological innovation to support the programs and missions of SC and DOE. The Laboratory's mission addresses four distinct goals:

- To perform the highest quality multi-disciplinary research in the energy sciences, general sciences, physical sciences, biosciences and computational sciences in a manner that ensures employee and public safety and protection of the environment;
- To develop, maintain, and operate unique national experimental facilities that are available to qualified investigators;
- To educate and train future generations of scientists and engineers to promote the Department's national science and education goals; and
- To transfer knowledge and technological innovations and foster productive relationships among Laboratory research programs,

universities, and industry in order to promote national economic competitiveness.

- (2) Primary Program Sponsors. Work under this contract includes scientific and technical programs sponsored by major DOE organizations. Primary DOE sponsors include:

- Office of Science,
- Energy Efficiency and Renewable Energy,
- Civilian Radioactive Waste Management,
- Fossil Energy, and
- Environmental Management.

Additionally, with prior permission of the Department, the Laboratory will perform other DOE, non-DOE federal government, and other sponsored research that supports the Laboratory's missions (notably those of the National Institutes of Health, the National Aeronautics and Space Administration, the Environmental Protection Agency, and Department of Defense, state government and industry). The DOE derives the benefits from the Laboratory's mission accomplishments and the development and utilization of the Laboratory's core competencies which are supported by this work.

A summary of current Laboratory programs follows. Descriptions of major programs are updated annually in the Institutional Plan.

(c) Science Programs.

- (1) Basic Energy Sciences. The Laboratory shall conduct research in materials sciences and the chemistry and physics of materials, in geosciences, in biological energy research, in applied mathematics and in other areas of chemical sciences. Programs in materials sciences emphasize new and forefront research projects for the synthesis, processing, and characterization of nanomaterials and other advanced materials. Programs in chemical sciences emphasize chemical physics, dynamics and mechanisms of chemical reactions, catalysis, electron spectroscopy, atomic physics, photochemistry, theoretical chemistry, chemistry of the actinide elements, and combustion modeling mechanisms and processes. In geosciences, a multi-disciplinary program supports the scientific basis for development of hydrocarbon and strategic-mineral resources, remediation of toxic waste sites, safe

disposal of radioactive and toxic chemical wastes, and exploitation of geothermal energy. A program in energy biosciences studies the unique features of photosynthetic organisms for collecting light energy and storing it as chemical energy. The Laboratory shall conduct research and development on advanced instrumentation and scientific user facilities improvements, such as those for synchrotron radiation studies, nuclear magnetic resonance, ultra-fast science, electron beam micro-characterization, neutron science and other scientific tools.

- (2) **Scientific Computing Research.** The Laboratory shall conduct computational research including the management and operation of the National Energy Research Scientific Computing (NERSC) Center; the Energy Sciences Network (ESnet); and other computational science and mathematics research units. The NERSC Center provides high-performance computing, information, and communications services for researchers. ESnet supports national and international access to the NERSC Center and, more generally, the needs of DOE scientists and collaborators for access to other DOE scientific facilities, information dissemination among scientific collaborators and widespread access to existing supercomputer facilities. Computational research at the Laboratory advances DOE's programs for Scientific Discovery Through Advanced Computing, architectures for scientific computing, and includes studies into new techniques and adaptive numerical methods and many other approaches. Other programs include the development of advanced numerical and analytical methods and their application to the most challenging problems in physics and engineering, high-speed networks and grids and related collaborative efforts to monitor complex experimental devices by electronic means, and an effort to combine state-of-the art computer equipment and scientific visualization software to provide research scientists with tools for exploring their data in new and innovative ways. In technology research, the Laboratory supports focused research projects between industry and the national laboratories.
- (3) **Nuclear Physics.** The Laboratory shall conduct experimental and theoretical investigations of the structure and properties of nuclei, emphasizing studies of nuclei under extreme conditions (temperature, isospin, angular momentum, and energy density) as well as studies of neutrinos and double beta decay. Research collaborations involve studies of the quark-gluon plasma at the Relativistic Heavy Ion Collider. The Laboratory shall conduct programs to educate and train young scientists, to develop technology in advanced nuclear instrumentation and to define the challenges of relativistic heavy-ion physics. The research includes the development of advanced detectors and systems to deliver high intensity beams for nuclear physics.

- (4) **High-Energy Physics.** The Laboratory shall conduct a program of experimental and theoretical research, including the development and operation of innovative detectors and research on advanced accelerator components and concepts. Experimental programs in high-energy physics focus on the discovery of the Higgs particle, and the properties of quarks and leptons and their interactions. The astrophysics effort at the Laboratory includes several components: understanding the dark energy in the universe through the study of distant supernovas, the study of cosmic microwave background measurements to examine the properties of the universe, studies of neutrinos and investigations, including the search for dark matter. The Laboratory shall also conduct studies on highly theoretical topics of interest; data compilation of high-energy physics particle properties; advanced detector development for use in proposed hadron colliders; and accelerator physics and engineering for the application of particle beams for high-energy physics facilities.
- (5) **Biological and Environmental Research.** The Laboratory shall conduct life sciences research in three program areas life sciences, medical sciences and environmental sciences. In the life sciences, this research includes genome sequencing and gene expression research, microbial genomics and Genomes to Life research, low dose radiation studies, DNA repair, and other biological studies. In the medical sciences, the research includes, nuclear medicine, functional imaging, radiopharmaceutical development and measurement technology. In environmental research studies include global change research, ocean, terrestrial and geological sequestration studies, and natural and accelerated bioremediation studies. Studies on genome structure include comparative sequencing to understand the human genome gene regulatory networks and development of instrumentation and bioinformatic tools for and comprehensive understanding of comparative genomics.
- (6) **Fusion Energy.** The Laboratory shall conduct research on accelerator systems and experimental components supporting the nation's inertial-confinement fusion energy programs. Heavy-ion fusion accelerator research focuses on the physics and technology of induction acceleration as the means for producing high-current, heavy-ion beams as drivers for inertial-confinement systems. The laboratory also has important capabilities in ion beam systems that have been applied to magnetic fusion research.
- (7) **Spallation Neutron Source (SNS) project.** The Laboratory shall be accountable for assigned project deliverables, as derived from the project technical, cost, and schedule baseline documents, and shall make

available the resources necessary to execute the approved work plans for the SNS. The Laboratory shall perform the tasks agreed to in a safe, environmentally benign, high-quality, timely, responsible, and cost-effective manner. The SNS Project Office will provide overall coordination and direction to the partner Laboratories, as described in the "Memorandum of Agreement (MOA) revision 3, dated October 5, 1999, between the SNS Project and Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory, Los Alamos National Laboratory, and Oak Ridge National Laboratory."

- (8) **Energy Efficiency and Renewable Energy Programs.** The Laboratory shall conduct research and technology development in the furtherance of national goals to reduce energy demand and cost to consumers, balance environmental concerns with economic development, and enhance energy security. The Laboratory's programs are principally in advanced buildings technology, industry energy efficiency, electrical-energy storage and distribution, transportation, utility systems and electricity systems reliability, and geothermal systems.
- (9) **Civilian Radioactive Waste Management Programs.** The Laboratory shall conduct a program of interrelated geoscience and geological engineering research supporting the underground storage of high-level nuclear wastes; including characterization of deep geologic formations, determination of the physical and chemical processes occurring in the repository rocks, analysis of hydrologic and chemical transport mechanisms, development of predictive techniques for repository performance, and technical support for a DOE licensing application to the Nuclear Regulatory Commission.
- (10) **Fossil Energy Programs.** The Laboratory shall conduct research directed toward making coal more usable, including studies on conversion to gaseous and liquid fuels and reduction of emissions and carbon sequestration. The Laboratory shall also develop advanced characterization methods for oil and gas reservoirs and for improving oil discovery and recovery. The contractor shall also conduct research on refinery activities related to efficiency and the environment. The Laboratory's research capabilities are available to the Department for research germane to a hydrogen economy.
- (11) **Environmental Management Programs.** The Laboratory shall be responsible for investigations, monitoring, clean-up, containment, restoration, removal, decommissioning and other remedial activity (including any costs for defense of litigation related thereto), for the management and/or clean-up of oil spills, contamination or releases of

any solid wastes, hazardous wastes and constituents, hazardous or radioactive substances, wastes or materials present in soil, groundwater, air, surface water, facilities and structures (whether subsurface or above ground), as a result of research or other work conducted by the laboratory during the term of the contract.

The Laboratory shall execute pollution prevention efforts to advance cost-effective waste reduction, environmental release reduction, environmentally preferable purchasing, and environmental sustainability in facility construction and operation, in all site operations and facilities covered by this contract.

- (12) Policy, Planning, and Analysis Support. The Laboratory shall conduct analysis activities in support of energy policy issues of concern to DOE, data and model development for projecting energy demand and evaluation of policy impacts as input to DOE's assessment of United States energy strategies.
- (13) Laboratory-Directed Research and Development (LDRD). The Laboratory shall conduct a LDRD program that leverages the Laboratory's scientific expertise and key technologies toward innovations that are applicable to DOE's, and other sponsor's missions. LDRD contributes to the development of scientific staff capability and vitality through the support of new research programs of great merit and potential, bringing important capabilities to serve DOE and other related national needs.
- (14) University and Science Education Programs. The Contractor shall develop and implement programs that utilize Laboratory resources, staff, technological expertise, collaborative and cooperative relationships with other academic and research institutions in order to advance science education opportunities and to improve the quality of science, mathematics, computing, and technology education in the United States.
- (15) User Facilities Operations. The Laboratory shall manage and operate major DOE user facilities: Advanced Light Source, Biomedical Isotope Facility, National Energy Research Scientific Computing Center and Energy Sciences Network, and National Center for Electron Microscopy and develop other user facilities important to DOE missions.
- (16) Engineering. The Laboratory shall maintain an engineering and machine shop fabrication capability that supports the focus on state-of-the-art research and development to enhance Laboratory technical strengths and to meet the needs of current and future Laboratory programs.

(d) Administration and Operation of the Laboratory.

The Contractor shall manage, operate, protect, maintain and enhance the Laboratory's ability to function as a DOE multi-program laboratory, provide the infrastructure and support activities, support the accomplishment of the Laboratory's missions, and assure the accountability to the DOE under the results-oriented, performance-based provisions of this contract. The Contractor shall implement a broad scope continual self-assessment process to assess the overall performance in, and drive continuous improvement of, Laboratory operations and administration.

- (1) Strategic and Institutional Planning. The Contractor shall conduct a strategic planning process and develop Institutional Plans and Strategic Facility Plans in consideration of DOE provided planning guidance and strategic planning material to assure consistency with DOE missions and goals and with due regard for Environment, Safety, and Health (ES&H) issues.
- (2) Protection of Workers, the Public and the Environment. The safety and health of workers and the public and the protection and restoration of the environment are fundamental responsibilities of the Contractor. Accordingly, the Contractor shall implement a Laboratory Integrated Safety Management (ISM) system which establishes the environmental, safety, and health processes that support the safe performance of all Laboratory work. The ISM system shall incorporate Environmental Management Systems, in cooperation with regulatory agencies. The ISM system shall be applied to all Contractor activities conducted by or for the Laboratory, through subcontractors or other entities, and shall provide for ES&H oversight of Laboratory and subcontractor operations. The work shall include environmental and cultural resource protection, pollution prevention, the safety management system, risk based worker health program, environmental restoration and waste management, environmental management system, and emergency management programs.
- (3) Integrated Safeguards and Security (ISSM). The Contractor shall protect Laboratory assets, personnel, property, and information, to sustain the science mission in a manner commensurate with risks. The Contractor shall conduct a Laboratory Integrated Safeguards and Security Management program to include physical site security, protection of Government property, cyber security protections, protection of information, personnel security, and access control for Laboratory staff and visitors, export controls, and a counterintelligence program.
- (4) Laboratory Facility Operations and Infrastructure.

- a. The Contractor shall manage and maintain Government-owned facilities, both provided and acquired, to further national interests and to perform DOE statutory missions. Recognizing that these facilities are a national resource, these facilities may also be made available, with appropriate agreements, to private and public sector entities including universities, industry, and local, state, and other government agencies. The Contractor shall perform overall integrated planning, acquisition, upgrades, and management of Government-owned, leased or controlled facilities and real property accountable to the Laboratory. The Contractor shall employ facilities management practices that are best-in-class and integrated with mission assignments and business operations. The maintenance management program shall maintain Government property in a manner that (1) promotes and continuously improves operational safety, environmental protection and compliance, property preservation and cost effectiveness, (2) ensures continuity and reliability of operations, fulfillment of program requirements and protection of life and property from potential hazards, and (3) ensures the condition of the assets will be maintained or improved.
 - b. Commencing February 15, 2008, the Contractor shall assist DOE through direct participation and other support in achieving DOE's energy efficiency goals and objectives in electricity, water, and thermal consumption, conservation, and savings, including goals and objectives contained in Executive Order 13423, "Strengthening Federal Environmental, Energy, and Transportation Management." The Contractor shall maintain and update, as appropriate, its Site Plan (as required elsewhere in the contract) to include detailed plans and milestones for achieving site-specific energy efficiency goals and objectives. With respect to this paragraph, the Plan shall consider all potential sources of funds, in the following order: 1) the maximum use of private sector, third-party financing applied on a life-cycle cost effective basis, particularly from Energy Savings Performance Contracts and Utility Energy Services Contracts awarded by DOE; and 2) only after third-party financing options are evaluated, in the event that energy efficiency and water conservation improvements cannot be effectively incorporated into a private sector financing arrangement that is in the best interests of the Government, then DOE funding and funding from overhead accounts can be utilized.
- (5) Business Management. The Contractor shall manage an effective integrated system of internal controls for all business and administrative operations of the Laboratory.

- (i) Human Resources Management. The Contractor shall establish and maintain human resource systems which attract and retain outstanding employees, and continually motivate them to achieve high productivity in scientific research and Laboratory operations.

The Contractor also shall create and maintain at the Laboratory an environment that promotes diversity and fully utilizes the talents and capabilities of a diverse workforce. The Contractor shall seek to recruit a diverse workforce by promoting and implementing DOE and Laboratory goals. Special consideration will be given to Historically Black Colleges and Universities/Minority Institutions as potential resource pools. The Contractor shall also strive to promote diversity in all of the Laboratory's subcontracting efforts with emphasis on the use of the types of businesses identified in the Small Business Subcontracting Plan clause of this contract.

- (ii) Financial Management. The Contractor shall maintain a financial management system responsive to the obligations of sound financial stewardship and public accountability. The overall system shall include an integrated accounting system suitable to collect, record, and report all financial activities; a budgeting system which includes the formulation and executions of all resource requirements needed to accomplish projected missions and formulate short- and long-range budgets; an internal control system for all financial and other business management processes; and a disbursements system for both employee payroll and supplier payments.
- (iii) Purchasing Management. The Contractor shall have a DOE-approved purchasing system to provide purchasing support and subcontract administration. The Contractor shall, when directed by DOE and may, but only when authorized by DOE, enter into subcontracts for the performance of any part of the research work under this contract.
- (iv) Property Management. The Contractor shall have a DOE approved property management system that provides assurance that the Government owned, contractor held property is accounted for, safeguarded and disposed of in accordance with DOE's expectations and policies. The Contractor shall perform overall integrated planning, acquisition, maintenance, operation, management and disposition of Government-owned personal and real property, and Contractor-leased facilities and infrastructure used by the Laboratory. Real property management shall include

providing office space for the DOE Bay Area Site Office as directed by the DOE Bay Area Site Office Manager.

- (6) Legal Services. The Contractor shall maintain legal support for all contract activities including, but not limited to, those related to patents, licenses, and other intellectual property rights; subcontracts; technology transfer; environmental compliance and protection; labor relations; and litigation and claims.
- (7) Information Resources Management. The Contractor shall maintain information systems for organizational operations and for activities involving general purpose programming, data collection, data processing, report generation, software, electronic and telephone communications, and computer security. Contractor shall provide computer resource capacity and capability sufficient to support Laboratory-wide information management requirements. The Contractor also shall conduct a records management program.
- (8) Other Support. The Contractor shall provide other administrative services necessary for Laboratory operations and logistics support to the DOE Bay Area Site Office as requested by the Contracting Officer.

C.5 - PLANS AND REPORTS

The Contractor shall submit periodic plans and reports, in such form and substance as required by the Contracting Officer. These periodic plans and reports shall be submitted at the intervals, and to the addresses and in the quantities as specified by the Contracting Officer. Where specific forms are required for individual plans and reports, the Contracting Officer shall provide such forms to the Contractor. The Contractor shall require subcontractors to provide reports that correspond to data requirements the Contractor is responsible for submitting to DOE. Plans and reports which may be submitted in compliance with this provision are in addition to any other reporting requirements found elsewhere in other clauses of this contract. It is the intention of DOE to consult with the Contractor in determining the necessity, form and frequency of any reports required to be submitted by the Contractor to DOE under this contract.

PART I

SECTION D

PACKAGING AND MARKING

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SECTION D - PACKAGING AND MARKING

D.1 - PACKAGING

Preservation, packaging, and packing for shipment or mailing of all work delivered hereunder shall be in accordance with good commercial practice and adequate to insure acceptance by common carrier and safe transportation at the most economical rates.

D.2 - MARKING

Each package, report or other deliverable shall be accompanied by a letter or other document which:

- (a) Identifies the contract number under which the item is being delivered.
- (b) Identifies the contract requirement or other instruction which requires the delivered item(s).

PART I

SECTION E

INSPECTION AND ACCEPTANCE

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PART I

SECTION E - INSPECTION AND ACCEPTANCE

E.1 - FAR 52.246-9 - INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM) (APR 1984)

The Government has the right to inspect and evaluate the work performed or being performed under the contract, and the premises where the work is being performed, at all reasonable times and in a manner that will not unduly delay the work. If the Government performs inspection or evaluation on the premises of the Contractor or a subcontractor, the Contractor shall furnish and shall require subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

PART I

SECTION F

DELIVERIES OR PERFORMANCE

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PART I

SECTION F - DELIVERIES OR PERFORMANCE

F.1 - PERIOD OF PERFORMANCE

- (a) This contract shall be effective as specified in Block No. 28 - Award Date, of Standard Form 33, and shall continue up to and including May 31, 2025, unless sooner terminated according to its terms. The contract may be extended in accordance with Clause F.2 - AWARD TERM INCENTIVE (SPECIAL).
- (b) The contract transition period is from award date through May 31, 2005.

F.2 - AWARD TERM INCENTIVE (SPECIAL)

- (a) Definitions. For purposes of this clause:
 - (1) Reserved.
 - (2) The performance measures for the "Contractor Performance Ratings" are defined in Section J, Appendix B entitled, "Performance Evaluation and Measurement Plan."
 - (3) "Award Term Determination Official (ATDO)" means the Department of Energy official designated to determine whether the contractor has met the contractual requirements in order to earn any award term extension during an evaluation period. The ATDO and the Fee Determination Official (FDO) may be the same person.
 - (4) "Initial contract term" for purposes of this clause only, means the period of performance commencing on the date the contractor assumes full responsibility for the Laboratory from June 1, 2005, through May 31, 2010.
- (b) Eligibility for Award Term Extensions. In order for the contractor to earn a contract term extension pursuant to the award term incentive, the contractor must:
 - (1) Have been assessed by the FDO to have achieved an annual rating in both the Science & Technology and Management and Operations components for each performance evaluation period (except as provided in (2) below) that meets or exceeds the scores identified in the

Performance Evaluation and Measurement Plan (or equivalent document) as establishing eligibility for the award term incentive, and, meet the contract performance objectives, standards, or criteria and other contract requirements applicable to earning additional award term, defined in the Performance Evaluation and Measurement Plan (or equivalent document), as determined by the ATDO.

- (2) With respect to the evaluation period for the first award term extension, the Contractor must achieve an overall rating of at least satisfactory for the first performance evaluation period and an overall rating meeting the criteria in paragraph (1) above for each of the next two performance evaluation periods.

(c) Award Term Evaluation and Determination

- (1) The Government may extend the contract term up to a total of twenty years through operation of this award term incentive clause. The evaluation period for the first award term extension will be the first three performance evaluation periods of the initial contract term. Evaluations for subsequent award term extensions will be conducted annually.
- (2) The ATDO will unilaterally determine if the contractor: (i) meets eligibility requirements to earn an award term extension; and (ii) has earned additional contract term.
- (3) The amount of award term that may be earned by the contractor for the first award term extension is thirty-six (36) months. The amount of award term that may be earned by the contractor for each subsequent award term extension is twelve (12) months.
- (4) If the ATDO determines that the contractor has earned additional award term, the Contracting Officer will unilaterally modify the contract to extend the term of the contract.
- (5) If the Contractor fails either (i) to earn the first award term extension, or (ii) to earn the award term 3 times, the contractor becomes ineligible to earn any additional award term extension(s) under the contract.

(d) Conditions.

- (1) This clause does not confer any other rights to the Contractor other than the right to earn additional contract term as specified herein. Any additional contract term awarded to the Contractor under this clause is

subject to all of the other terms and conditions of this Contract. Should the terms of this clause conflict with the terms of any other clause under this Contract, then this clause shall be subordinate.

- (2) The contractor's earning of an award term extension and the contractor's right to perform an earned award term extension are subject to:
 - (i) The Government's continuing need for the contract's work;
 - (ii) The availability of funds; and
 - (iii) Mutual agreement by the parties to contract modifications that incorporate changes to, or new, DOE policy or contract clauses;
- (3) The Government may make unilateral changes to the Performance Evaluation and Measurement Plan (or equivalent document) prior to the start of an award term evaluation period.
- (4) The contractor is not entitled to any cancellation charges, termination costs, equitable adjustments, or any other compensation due to the contractor failing to earn or forfeiting award term.
- (5) A significant failure of Contractor's management controls as defined in Clause I.120 - DEAR 970.5203-1, MANAGEMENT CONTROLS (PREV. I.76), or a first degree performance failure as defined in Clause I.127 - DEAR 970.5215-3, CONDITIONAL PAYMENT OF FEE, PROFIT, AND OTHER INCENTIVES – FACILITY MANAGEMENT CONTRACTS (PREV. I.83), may result in the forfeiture of up to 3 years of earned award term. This potential forfeiture is in addition to other remedies provided for in the contract.

F.3 - FAR 52.242-15 - STOP WORK ORDER (AUG 1989) ALTERNATE I (APR 1984)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop work is delivered to the Contractor, or within any extension of that period to which the parties shall have agreed, the Contracting Officer shall either --

- (1) Cancel the stop-work order; or
 - (2) Terminate the work covered by the order as provided in the Termination clause of this contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected, and the contract shall be modified, in writing, accordingly, if --
- (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
 - (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided, that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

F.4 - STOP WORK AND SHUTDOWN AUTHORITY (SEP 2017)

FAR 52.242-15 – Stop Work Order, Alternate I, allows only the Contracting Officer to stop work or shutdown facilities for reasons other than harm or imminent danger to the environment or health and safety of employees and the public.

Due to the immediate need to stop work due to situations where the Contractor's acts or failures to act cause substantial harm or present an imminent danger to the environment or health and safety of employees or the public, any DOE employee may exercise the stop work authority contemplated in Clause I.131 - DEAR 970.5223-1, INTEGRATION OF ENVIRONMENT, SAFETY, AND HEALTH INTO WORK PLANNING AND EXECUTION (PREV. I.86).

F.5 - PRINCIPAL PLACE OF PERFORMANCE

The principal place of contract performance is at the site of the Ernest Orlando Lawrence Berkeley National Laboratory, Berkeley, Alameda County, California.

PART I

SECTION G

CONTRACT ADMINISTRATION DATA

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PART I

SECTION G - CONTRACT ADMINISTRATION DATA

G.1 - DOE CONTRACTING OFFICER

For the definition of Contracting Officer see Clause I.1 - FAR 52.202-1, DEFINITIONS, of this contract. The Contracting Officer is the only individual who has the authority on behalf of DOE to take the following actions under the contract:

- (1) assign additional work within the general scope of the Statement of Work of the contract;
- (2) issue a change as defined in the "Changes" clause of the contract;
- (3) change any of the expressed terms, conditions or specifications of the contract;
- (4) accept non-conforming work; or
- (5) waive any requirement of this contract.

G.2 - DOE CONTRACTING OFFICER'S REPRESENTATIVE(S) (COR)

Performance of the work under this contract shall be subject to the technical direction of DOE Contracting Officer's Representative(s) in accordance with Clause I.116- DEAR 952.242-70, TECHNICAL DIRECTION (PREV. I.73A). Any change in any DOE COR may be made administratively by letter from the Contracting Officer consistent with Clause I.116- DEAR 952.242-70, TECHNICAL DIRECTION (PREV. I.73A).

G.3 - CONTRACT ADMINISTRATION

The contract will be administered by:

Maria C. Robles
Office of Science Contracting Officer
U.S. Department of Energy, Bay Area Site Office
Ernest Orlando Lawrence Berkeley National Laboratory
1 Cyclotron Road, MS 90-1023
Berkeley, CA 94720
maria.robles@science.doe.gov

Written communications regarding the contract shall be mailed (or electronically sent) to the above address except for correspondence regarding intellectual property (other than invention disclosures, which are reported to the Consolidated Service Center via iEdison) related matters which should be addressed to:

U.S. Department of Energy
Office of Chief Counsel - Intellectual Property Law Division
ATTN: Gary Drew
Bay Area Site Office
Ernest Orlando Lawrence Berkeley National Laboratory
1 Cyclotron Road, MS 90-1023
Berkeley, CA 94720
gary.drew@science.doe.gov

PART II

SECTION H

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PART I

SECTION H - SPECIAL CONTRACT REQUIREMENTS

H.1 - LABORATORY FACILITIES

DOE agrees to furnish and make available to the Contractor, for its use in performing the work under this contract, the Laboratory facilities designated as follows:

- (a) The Government-owned or leased land, buildings, utilities, equipment and other facilities situated at the Ernest Orlando Lawrence Berkeley National Laboratory Site at Berkeley, Alameda County, California;
- (b) Government-owned or leased facilities at such other locations as may be approved by DOE for use under this contract; and
- (c) Subject to mutual agreement, other facilities may be used in the performance of the work under this contract.

DOE reserves the right to make part of the above-mentioned land or facilities available to other Government agencies or other users on the basis that the responsibilities and undertakings of the Contractor will not be unreasonably interfered with. Before exercising its right to make any part of the land or facilities available to another agency or user, DOE will confer with the Contractor.

H.2 - LONG-RANGE PLANNING, PROGRAM DEVELOPMENT AND BUDGETARY ADMINISTRATION (SEPT 2017)

- (a) Basic Considerations. Throughout the process of planning, and budget development and approval, the Parties recognize the desirability for close consultation, for advising each other of plans or developments on which subsequent action will be required, and for attempting to reach mutual understanding in advance of the time that action needs to be taken.
- (b) Long Range Planning. It is the intent of the Parties to develop a five-year strategic outlook for Ernest Orlando Lawrence Berkeley National Laboratory. Development of this document is the strategic planning process by which the Parties, through mutual consultation, reach agreement on the general types and levels of activity which will be conducted at the Laboratory for the designated period. It also serves as a baseline for placement of work at the Laboratory. The contents of the plan should include: Mission Overview, Funding by Source, Human Resources, Core Capabilities, Science Strategies for the Future, Major

Initiatives, Infrastructure Plans, Mission Readiness and Strategic Partnership Projects (SPP). The Contractor shall submit an annual Laboratory Plan which provides insight into accomplishments against this strategic document. The Contractor is expected to contribute to long range planning conducted by the Office of Science.

- (c) Budgetary Administration. DOE approval of program proposals and budget estimates will be reflected in work authorizations and financial plans developed and issued to the Contractor.

H.3 - RESERVED

H.4 - ADVANCE UNDERSTANDINGS REGARDING ADDITIONAL ITEMS OF ALLOWABLE AND UNALLOWABLE COSTS AND OTHER MATTERS

Allowable costs under this Contract shall be determined according to the requirements of Clause I.148 - DEAR 970.5232-2, PAYMENTS AND ADVANCES (PREV. I.102). For purposes of effective Contract implementation, certain items of cost are being specifically identified below as allowable and/or unallowable under this Contract to the extent indicated:

I. ITEMS OF ALLOWABLE COSTS:

- (a) Personnel costs in accordance with Section J, Appendix A - ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES, attached to this contract.
- (b) Rentals and leases of land, buildings, and equipment owned by third parties, allowances in lieu of rental, charges associated therewith and costs of alteration, remodeling and restorations where such items are used in the performance of the contract, except that such rentals and leases directly chargeable to the contract shall be subject to such approval by the Contracting Officer as set forth in Section J, Appendix G - PURCHASING SYSTEM REQUIREMENTS.
- (c) Notwithstanding the provisions of FAR cost principle 31.205-44 (e), stipends and payments made to reimburse travel or other expenses of researchers and students who are not employed under this contract but are participating in research, educational or training activities under this contract to the extent such costs are incurred in connection with fellowship, international agreements, or other research, educational or training programs approved by the Contracting Officer.
- (d) Notwithstanding the provisions of FAR cost principle 31.205-44 (e), payments to educational institutions for tuition and fees, or institutional allowances, in connection with fellowship or other research, educational or training programs for researchers and students who are not employed under this contract.

- (e) Expenditures by the Contractor to reimburse other employers for payments (including, but not limited to, salaries) to or for the benefit of their employees loaned to the Contractor for and engaged in the performance of the Contractor's undertaking hereunder.
- (f) Costs incurred or expenditures made by the Contractor, as directed, approved or ratified by the Contracting Officer and not unallowable under any other provisions of this contract.

II. ITEMS OF UNALLOWABLE COSTS:

- (a) Premium Pay for wearing radiation-measuring devices for Laboratory and all-tier cost-type subcontract employees.
- (b) In accordance with DEAR 970 home office expenses are unallowable, unless approved by the Contracting Officer (CO). The contractor is allowed to submit a home office expense proposal in accordance with DEAR 970.3102-3-70. Said proposal cannot exceed \$2,500,000 in any fiscal year. Upon Head of Contracting Activity (HCA) and CO approval home office expenses will be allowable.
- (c) Home office expenses are not included in fee.

H.4A - FACILITIES CAPITAL COST OF MONEY

The request for proposal for this contract did not require a cost proposal in which facilities capital cost of money would apply. Therefore, the Clause I.31, FAR 52.215-17, WAIVER OF FACILITIES CAPITAL COST OF MONEY (PREV. I.116) is included in the contract. However, if during the performance of the contract the Contractor elects to claim facilities capital cost of money as an allowable cost, the Contractor shall submit to the Contracting Officer for approval a proposal for each specific project, including Form CASB-CMF which shows the calculation of the proposed amount (see FAR 31.205-10).

H.5 - ADMINISTRATION OF SUBCONTRACTS

- (a) The administration of all subcontracts entered into and/or managed by the Contractor, including responsibility for payment hereunder, shall remain with the Contractor unless assigned at the direction of DOE.
- (b) The DOE reserves the right to direct the Contractor to assign to the DOE, or another Contractor, any subcontract awarded under this contract.
- (c) The DOE reserves the right to identify specific work activities in Section C "Description/Specifications/Work Statement" to be removed (de-scoped) from the contract in order to contract directly for the specific work activities. The

Department will work with the Contractor to identify the areas of work that can be performed by small businesses in order to maximize direct federal contracts with small businesses. The Contractor agrees to facilitate these actions. This facilitation will include identifying direct contracting opportunities valued at \$5 million or above for small businesses for work presently performed under subcontracts, as well as work performed by Contractor employees. The Contractor shall notify the DOE one-year in advance of the expiration of any of its subcontracts valued at \$5 million or above, or if applicable, one-year prior to the exercise of an option and/or the option notification requirement, if any, contained in the subcontracts. The DOE will review this information and the requirements of the Contractor to determine the appropriateness for small business opportunities. This review may result in the DOE electing to enter in contracts directly with small businesses for these areas of work. The Contracting Officer will give notice to the Contractor not less than 120 calendar days prior to the date for exercising the option and/or the expiration of the subcontract and/or prior to entering into contract for work being performed by Contractor employees. Following award of these direct federal contracts, DOE may assign administration of these contracts to the Contractor. The Contractor agrees to accept assignments from the DOE for the administration of these contracts. The parameters of the Contractor's responsibilities for the small business contracts and/or changes, if any, to this contract will be incorporated via a modification to the contract. The Contractor will accept management and administration responsibilities, if so determined.

- (d) To the extent that DOE removes (de-scopes) work from this contract, any such removed or withdrawn work shall be treated as a change in accordance with the clause of this contract entitled, "Changes". A material change for the purpose of this clause is defined as cumulative changes during a fiscal year that result in a plus or minus 10% change to the Laboratory's budget. To the extent that DOE assigns the administration of a contract to the Contractor, or removes (de- scopes) work, the Parties reserve the right to negotiate an equitable adjustment in the Contractor's annual available performance fee. The negotiation of fee will be in accordance with the contract clause entitled, "Determining Total Available Performance Fee and Fee Earned". The Parties will also negotiate appropriate adjustments to the Contractor's Subcontracting Plan or any other applicable contract terms and conditions impacted by such withdrawal or addition of work scope to recognize the changes to the Contractor's subcontracting base and goals.

H.6 - CARE OF LABORATORY ANIMALS (SEP 2017)

- (a) Before undertaking performance of any contract involving the use of laboratory animals, the Contractor shall register with the Secretary of

Agriculture of the United States in accordance with Section 6, Public Law 89-544, Laboratory Animal Welfare Act, August 24, 1966, as amended. The Contractor shall furnish evidence of such registration to the Contracting Officer.

- (b) The Contractor shall acquire animals used in research and development programs from a dealer licensed by the Secretary of Agriculture, or from exempted sources in accordance with the Public Law enumerated in paragraph (a) above.
- (c) In the care of any animals used or intended for use in the performance of this contract, the Contractor shall comply with USDA regulations governing animal care and usage, as well as all other relevant local, State, and Federal regulations concerning animal care and usage. In addition, the Contractor will ensure that research will be conducted in a facility that either: (i) has a current National Institutes of Health (NIH) assurance number for animal care and usage, or (ii) is currently accredited for animal care and usage by an appropriate organization such as the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International, or (iii) has a DOE Assurance Plan Number.

H.7 - PRIVACY ACT RECORDS

In accordance with the Privacy Act of 1974, 5 U.S.C. 552a (Public Law 93-579) and implementing DOE Regulations (10 CFR 1008), the Contractor shall maintain the following "Systems of Records" on individuals in order to accomplish the United States Department of Energy functions:

- Personnel Medical Records (DOE-33) (excepting Contractor employees)
- Personnel Radiation Exposure Records (DOE-35)
- Occupational and Industrial Accident Records (DOE-38)
- Employee and Visitor Access Control Records (DOE-51)
- Access Control Records of International Visits, Assignments, and Employment at DOE Facilities and Contractor Sites (DOE-52)

The system of Records DOE-5, Personnel Records of Former Contractor Employees, is not included in the contract because, the Government relies on the protocol in place for Energy Employees Illness Compensation Program Act (EEIOCPA), per Modification 868.

The parenthetical Department of Energy number designations for each system of records refers to the official "System of Records" number published by the United States Department of Energy in the Federal Register pursuant to the Privacy Act.

If DOE requires the Contractor to design, develop, or maintain additional systems of Government-owned records on individuals to accomplish an agency function in accordance with the Privacy Act of 1974 and 10 CFR 1008, the Contracting Officer, or designee, shall so notify the Contractor, in writing, and such Privacy Act system shall be deemed added to the above list whether incorporated by formal contract modification or not. The Parties shall mutually agree to a schedule for implementation of the Privacy Act with respect to each such system.

H.8 - ADDITIONAL DEFINITIONS

- (a) CSC means the DOE Office of Science, Consolidated Service Center.
- (b) Contractor means the Offeror as specified in Block 15A of Standard Form 33 for Contract No. DE-AC02-05CH11231.
- (c) The term DOE means the Department of Energy, FERC means the Federal Energy Regulatory Commission, and NNSA means the National Nuclear Security Administration.
- (d) The term DOE Directive means DOE Policies, Orders, Notices, Manuals, Regulations, Technical Standards and related documents, and Guides, including for purposes of this contract those portions of DOE's Accounting and Procedures Handbook applicable to integrated Contractors, issued by DOE. The term does not include temporary written instructions by the Contracting Officer for the purpose of addressing short-term or urgent DOE concerns relating to health, safety, or the environment.
- (e) Head of Agency means: (i) The Secretary; (ii) Deputy Secretary; (iii) Under Secretaries of the Department of Energy and (iv) the Chairman, Federal Energy Regulatory Commission.
- (f) Head of Contracting Activity for the Ernest Orlando Lawrence Berkeley National Laboratory means the Deputy Director of Field Operations.
- (g) Laboratory means the Ernest Orlando Lawrence Berkeley National Laboratory (LBNL) composed of Government-owned buildings and facilities together with the necessary utilities, now existing or hereafter to be acquired, constructed and equipped, most of which are or will be situated on the Government-leased plot or plots of land (hereinafter referred to as the "Laboratory Site") at Berkeley, Alameda County, California.
- (h) The term "someone acting as the Laboratory Director" means the person appointed as Laboratory Director; Deputy Laboratory Director(s) acting in the

absence of the Laboratory Director; or a person specified, in writing, to have authority to act in the absence of the Laboratory Director and Deputy Laboratory Director(s).

- (i) With respect to Clause I.143 - DEAR 970.5227-10, PATENT RIGHTS – MANAGEMENT AND OPERATING CONTRACTS, NONPROFIT ORGANIZATION OR SMALL BUSINESS FIRM CONTRACTOR (PREV. I.97), the term nonprofit organization means –
 - (1) a university or other institution of higher education,
 - (2) an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 as amended and exempt from taxation under section 501(a) and the Internal Revenue Code,
 - (3) any nonprofit scientific or educational organization qualified as a nonprofit by the laws of the State of its organization or incorporation, or
 - (4) a combination of qualifying entities organized for a nonprofit purpose (e.g., partnership, joint venture or limited liability company) each member of which meets the requirements of (1), (2), or (3) above.
- (j) The term Senior Procurement Executive means, for DOE: Department of Energy – Director, Office of Acquisition and Project Management; National Nuclear Security Administration – Administrator for Nuclear Security, NNSA; and Federal Energy Regulatory Commission – Chairman, FERC.
- (k) Successor Plan means any pension or other benefit plan established or maintained pursuant to Clause H.41, PENSION PLAN, paragraph (f) and covering Contractor employees performing work on this Contract.
- (l) The UCRP means the University of California Retirement Plan.
- (m) With respect to Clause H.30, CONTRACTOR ASSURANCE SYSTEM, the following definitions apply:
 - (1) In paragraph (a) the term “Board of Directors” shall mean the “LBNL Contract Assurance Council”.
 - (2) In paragraph (a) the term “throughout the Contractor’s organization” shall mean those portions of the University operations that are subject to contract DE- AC02-05CH11231, alternatively - “the Laboratory”.

H.9 - SERVICE CONTRACT ACT OF 1965 (41 U.S.C. 351)

The Service Contract Act of 1965 is not applicable to this contract. However, in accordance with Clause I.159 – DEAR 970.5244-1, CONTRACTOR PURCHASING SYSTEM (PREV. I.114), subcontracts awarded by the Contractor are subject to the Act to the same extent and under the same conditions as contracts awarded by DOE. The Contractor and the Contracting Officer shall develop a procedure whereby DOE will determine if the Service Contract Act is applicable to particular subcontracts.

H.10 - WALSH-HEALEY PUBLIC CONTRACTS ACT (41 U.S.C 35)

Except as otherwise may be approved, in writing, by the Contracting Officer, the Contractor agrees to insert the following provision in noncommercial Purchase Orders and subcontracts under this contract. "If this contract is for the manufacture or furnishing of materials, supplies, articles, or equipment in an amount which exceeds or may exceed \$15,000.00 and is otherwise subject to the Walsh-Healey Public Contracts Act, as amended (41 U.S.C. 35), there are hereby incorporated by reference all representations and stipulations required by said Act and regulations issued thereunder by the Secretary of Labor, such representations and stipulations being subject to all applicable rulings and interpretations of the Secretary of Labor which are now or may hereafter be in effect."

H.11 - PROTECTION OF HUMAN SUBJECTS

Before undertaking the performance of any research involving the use of human subjects, the provisions of 10 CFR 745 and the applicable DOE Order regarding Protection of Human Subjects, must be complied with. This requirement applies to research undertaken with DOE support, strategic partnership projects, and collaborations with other institutions.

H.12 - IMPLEMENTATION OF CLAUSE DEAR 952.204-2 – SECURITY

- a) All applicable parts of clause I.104 - DEAR 952.204-2 SECURITY (PREV. I.159) apply to the contract. The parties acknowledge the following circumstances with respect to DEAR 952.204-2:
 - 1) Lawrence Berkeley National Laboratory (LBNL) holds no classified materials or information and does no classified work at any LBNL location.
 - 2) LBNL does possess a minimal amount of Special Nuclear Material (SNM) that is designated Category IV (per DOE O 474.2) and access to this SNM

currently does not require an access authorization (Per DOE Order 472.2 Personnel Security).

- 3) LBNL's SNM is used only in support of unclassified, non-weapons-related research (e.g. nuclear chemistry, radiobiology, nuclear physics, instrument calibration, system performance verification).

If the above circumstances change or new information regarding these circumstances comes to light, then the Contractor must notify the Contracting Officer so that appropriate action can be taken to reserve or include relevant DEAR Clauses as applicable.

H.13 - IMPLEMENTATION OF CLAUSE FAR 52.204-9 – PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL

As an unclassified facility, the Laboratory Director and certain staff members each have a personal security clearance to receive information and participate in classified meetings at other facilities. Clause I.15 - FAR 52.204-9, PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (PREV. I.141) will apply only to those LBNL personnel who do hold a personal security clearance and receive the federal credential referenced in this clause.

H.14 - STANDARDS OF CONTRACTOR PERFORMANCE EVALUATION

- (a) Use of objective standards of performance, self-assessment and performance evaluation:
 - (1) The Parties agree that the Contractor will utilize a comprehensive performance-based management approach for overall Laboratory management. The performance-based management approach will include the use of objective performance goals and indicators, agreed to in advance of each performance evaluation period, as standards against which the Contractor's overall performance of the scientific and technical mission obligations under this Contract will be assessed. The performance criteria will be limited in number and focus on results to drive improved performance and increased effective and efficient management of the Laboratory.
 - (2) The Parties agree to utilize the process described within Section J, Appendix B - PERFORMANCE EVALUATION AND MEASUREMENT PLAN (PEMP) to evaluate the performance of the Laboratory. The Parties further agree that the evaluation process described in Section J, Appendix B, will be reviewed annually and modified, if necessary, by agreement of

the Parties. If agreement of the Parties cannot be reached, the Contracting Officer has the unilateral right to establish the evaluation process.

- (3) The Parties agree that the Contractor will conduct an ongoing self-assessment process as the principal means of determining its compliance with the Contract Statement of Work and performance indicators identified within Section J, Appendix B. To assist the DOE in accomplishing the appropriate level of oversight, the Contractor shall work in partnership and cooperation with DOE and other external organization, as appropriate, in the self-assessment process. This work includes, but is not limited to, the development and execution of self-assessments and the utilization of the results for continuous improvement.
- (4) The Contractor shall provide periodic updates, as requested by the DOE, on the performance against Section J, Appendix B. The Contractor shall provide a formal status briefing at mid-year and year-end. Specific due dates and formats for the above-mentioned briefings shall be agreed to by the Laboratory Director and the DOE Bay Area Site Office Manager.
- (5) DOE, as a part of its responsibility for oversight, evaluation, and information exchange, shall provide an annual programmatic appraisal and other appraisals, and reviews of the Contractor's performance of authorized work in accordance with the terms and conditions of this Contract. The Office of Science, through the Bay Area Site Office Manager, has the lead responsibility for oversight of the programs and activities conducted by the Contractor.
- (6) The Contracting Officer shall annually provide a written assessment of the Laboratory's performance to the Contractor, which shall be based upon the process described in Section J, Appendix B. The Parties acknowledge that the performance levels achieved against the specific performance objectives and measures shall be the primary, but not sole, criteria for determining the Contractor's final performance evaluation and rating. The Contractor's self-assessment results, to include results of any third party reviews which may have been conducted during the evaluation period, will be considered at all levels to assess and evaluate the Contractor's performance. The Contracting Officer may also consider other relevant information not specifically measured by the objectives and measures established within Section J, Appendix B, that is deemed to have an impact (either positive or negative) on the Contractor's performance. Other relevant information that may be used by the Contracting Officer may include, but is not limited to, information gained from peer reviews, operational awareness, outside agency reviews (i.e., Office of Inspector

General (OIG), Government Accountability Office (GAO), Defense Contract Audit Agency (DCAA), etc.) conducted throughout the year, annual reviews (if needed), and DOE "for cause" reviews. Contractor success or failure in meeting performance expectations in a management or operating area may affect the level and/or mix of oversight attributed to a particular functional element.

(b) Standards of performance measure review:

- (1) The Parties agree to review the PEMP elements (goals, objectives, performance indicators, and expected levels of performance) contained in Section J, Appendix B, annually and to modify them upon the agreement of the Parties; provided, however, that if the Parties cannot reach agreement on all the goals, objectives, performance indicators, and expected levels of performance for the next period, the Contracting Officer shall have the unilateral right to establish reasonable new goals, objectives, performance indicators and expected levels of performance and/or to modify and/or delete existing goals, objectives, performance indicators, and expected levels of performance. It is expected that the goals, objectives, performance indicators, and expected levels of performance will be modified by the Contractor and the DOE as new areas of emphasis or priorities emerge which the Parties may agree warrant recognition in the performance-based integrated management approach.
- (2) Failure to include an objective or performance indicator in the contract does not eliminate the Contractor's obligation to comply with all applicable terms and conditions as set forth elsewhere within the contract.
- (3) In the event the Contracting Officer decides to exercise the rights set forth in paragraphs (a)(6) or (b)(1) above, he/she will notify the Contractor, in writing, of the intended decision ten days prior to issuance.

H.15 - CAP ON LIABILITY (SEPT 2017)

- (a) The Parties have agreed that the Contractor's liability, for certain obligations it has assumed under this contract, shall be limited as set forth in paragraph (b) below. These limitations or caps shall only apply to obligations the Contractor has assumed pursuant to the following clauses:
 - (1) The Section I Clause I.160 entitled "DEAR 970.5245-1 - Property" (PREV. I.115), paragraph (f)(1)(i)(C);
 - (2) The Section I Clause I.144 entitled "DEAR 970.5228-1 - Insurance-- Litigation and Claims" (PREV. I.98), paragraph (f); with respect to prudent business judgment only; and

- (3) The Section I Clause I.144 entitled "DEAR 970.5228-1 - Insurance-- Litigation and Claims" (PREV. I.98), paragraph (g)(2); except for punitive damages resulting from the willful misconduct or lack of good faith on the part of the Contractor's managerial personnel as defined in the Section I Clause I.160 entitled "DEAR 970.5245-1 - Property" (PREV. I.115).
- (b) Unless otherwise prohibited by law or regulation, the Contractor shall be liable each fiscal year for an amount not-to-exceed 1.25 times the maximum performance fee available for that fiscal year. The annual cap which will apply shall be based on the fiscal year in which the Contractor's act or failure to act was the proximate cause of the liability assumed by the Contractor. In the event the Contractor's act or failure to act overlaps more than one (1) fiscal year, the limitation will be the annual limitation for the last fiscal year in which the Contractor's act or failure to act occurred. If the Contractor's cumulative obligations for a fiscal year equal the amount of the annual limitation of liability, the Contractor shall have no further responsibility for the costs of the liabilities it has assumed for that fiscal year pursuant to (a)(1) through (3) above.

H.16 - INTELLECTUAL AND SCIENTIFIC FREEDOM

- (a) The Parties recognize the importance of fostering an atmosphere at the Laboratory conducive to scientific inquiry and the development of new knowledge and creative and innovative ideas related to important national interests.
- (b) The Parties further recognize that the free exchange of ideas among scientists and engineers at the Laboratory and colleagues at universities, colleges, and other laboratories or scientific facilities is vital to the success of the scientific, engineering, and technical work performed by Laboratory personnel.
- (c) In order to further the goals of the Laboratory and the national interest, it is agreed by the Parties that the scientific and engineering personnel at the Laboratory shall be accorded the rights of publication or other dissemination of research, and participation in open debate and in scientific, educational, or professional meetings or conferences, subject to the limitations included in technology transfer agreements and such other limitations as may be required by the terms of this Contract. Nothing in this clause is intended to alter the obligations of the Parties to protect classified or unclassified controlled nuclear information as provided by law.
- (d) Nothing in Clause I.107 - DEAR 952.204-75, PUBLIC AFFAIRS, or in Clause H.32, LOBBYING RESTRICTION (CONSOLIDATED APPROPRIATIONS ACT

SECTION 501) (PREV. I.64) is intended to limit the rights of the Contractor or its employees to publicize and to accurately state the results of its scientific research.

H.17 - NOTICE REGARDING THE PURCHASE OF AMERICAN-MADE EQUIPMENT AND PRODUCTS - SENSE OF CONGRESS (SEP 2017)

It is the sense of the Congress that, to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-made.

H.18 - APPLICATION OF DOE CONTRACTOR REQUIREMENTS DOCUMENTS (SEPT 2017)

- (a) Performance. The Contractor will perform the work of this contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this contract as Section J, Appendix I entitled "DOE Directives/List B," until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described below.
- (b) Laws and Regulations Excepted. The process described in this clause shall not affect the application of otherwise applicable laws and regulations of the United States, including regulations of the Department of Energy.
- (c) Deviation Processes in Existing Orders. This clause does not preclude the use of deviation processes provided for in existing DOE directives.
- (d) Proposal of Alternative. The Laboratory Director may, at any time during performance of this contract, propose an alternative procedure, standard, system of oversight, or assessment mechanism to the requirements in a listed CRD by submitting to the Contracting Officer a signed proposal describing the nature and scope of the alternative procedure, standard, system of oversight, or assessment mechanism (alternative), the anticipated benefits, including any cost benefits, to be realized by the Contractor in performance under the contract, and a schedule for implementation of the alternate. In addition, the Contractor shall include an assurance signed by the Laboratory Director that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Upon request, the Contractor shall promptly provide the Contracting Officer any additional information that will aid in evaluating the Contractor's proposal.
- (e) Action of the Contracting Officer. The Contracting Officer shall within 60 days:
 - (1) deny application of the proposed alternative;

- (2) approve the proposed alternative, with conditions or revisions;
 - (3) approve the proposed alternative; or
 - (4) provide a date by which a decision will be made (not to exceed an additional 60 days).
- (f) Implementation and Evaluation of Performance. Upon approval in accordance with (e)(2) or (e)(3) above, the Contractor shall implement the alternative. In the case of a conditional approval under (e)(2) above, the Contractor shall provide the Contracting Officer with an assurance statement, signed by the Laboratory Director, that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Additionally, the statement shall describe any changes to the schedule for implementation. The Contractor shall then implement the revised alternative. DOE will evaluate performance of the approved alternative from the date scheduled by the Contractor for implementation.
- (g) Application of Additional or Modified CRDs. During performance of the contract, the Contracting Officer may notify the Contractor that he or she intends to unilaterally add CRDs not then listed in Section J, Appendix I entitled "DOE Directives/List B" or modifications to listed CRDs. Upon receipt of that notice, the Contractor, within 30 calendar days, may, in accordance with paragraph (d) of this clause, propose an alternative procedure, standard, system of oversight, or assessment mechanism. The resolution of such a proposal shall be in accordance with the process set out in paragraphs (e) and (f) of this clause. If an alternative proposal is not submitted by the Contractor within the 30 calendar day period, or, if made, is denied by the Contracting Officer under paragraph (e), the Contracting Officer may unilaterally add the CRD or modification to Section J, Appendix I entitled "DOE Directives/List B". The Contractor and the Contractor Officer shall identify and, if appropriate, agree to any changes to other contract terms and conditions, including cost and schedule, resulting from the addition of the CRD or modification.
- (h) Deficiency and Remedial Action. If, during performance of this contract, the Contracting Officer determines that an alternative procedure, standard, system of oversight, or assessment mechanism adopted through the operation of this clause is not satisfactory, the Contracting Officer may, in his or her sole discretion, determine that corrective action is necessary and require the Contractor to prepare a corrective action plan for the Contracting Officer's approval. If the Contracting Officer is not satisfied with the corrective action taken, the Contracting Officer may direct corrective action to remedy the deficiency, including, if appropriate, the reinstatement of the CRD.

H.19 - EXTERNAL REGULATION

The Parties commit to full cooperation with regard to complying with any statutory mandate regarding external regulation of Laboratory facilities, whether by the Nuclear Regulatory Commission, the Occupational Safety and Health Administration, the Environmental Protection Agency, and/or State and local entities with regulatory oversight authority, and including but not limited to the conduct of pilot programs simulating external regulation, and the application for materials, facilities, or other licenses by or on behalf of the DOE.

H.20 - PAID LEAVE UNDER SECTION 3610 OF THE CORONAVIRUS AID, RELIEF, AND ECONOMIC SECURITY ACT (CARES ACT) TO MAINTAIN EMPLOYEES AND SUBCONTRACTORS IN A READY STATE

- (a) The Contractor may submit for reimbursement and the Government (without requiring consideration but precluding additional fee) will treat as allowable (if otherwise allowable per federal regulations) the costs of paid leave (including sick leave) the Contractor or its subcontractors provide to keep employees in a ready state if—
 - (1) The employees: cannot perform work on a site approved by the Federal Government (including a federally-owned or leased facility or site) due to facilities closures or other restrictions; and cannot telework because their job duties cannot be performed remotely during the public health emergency declared on January 31, 2020 for COVID-19.
 - (2) The costs are incurred from January 31, 2020 through September 30, 2020.
 - (3) The costs do not reflect any amount exceeding an average of 40 hours per week for paid leave.
- (b) Where other relief provided for by the CARES Act or any other Act would benefit the contractor or the contractor's subcontractors, including, but not limited to, funds available under sections 1102 and 1106 of the CARES Act, the contractor should evaluate the applicability of such benefits in seeking reimbursement under the contract.
- (c) The Contractor must represent in any request for reimbursement—
 - (1) Either it: has not received, has not claimed, and will not claim any other reimbursement, including claims for reimbursement via letter of credit, for federal funds available under the CARES Act for the same purpose, including, but not limited to, funds available under sections 1102 and 1106

of the CARES Act; or if it has received, claimed, or will claim other reimbursement, that reimbursement has been reflected, or will be reflected when known, in requests for reimbursement but in no case reflected later than in its final proposal to determine allowable incurred costs.

- (2) Its request reflects or will reflect as soon as known, all applicable credits, including
 - (i) Tax credits, including credits allowed pursuant to division G of Public Law 116-127; and
 - (ii) Applicable credits allowed under the CARES Act, including applicable credits for loan guarantees.

H.21 - EMPLOYEE COMPENSATION: PAY AND BENEFITS

(a) Total Compensation System

The Contractor shall develop, implement and maintain formal policies, practices and procedures to be used in the administration of its compensation system consistent with FAR 31.205-6 and DEAR 970.3102-05-6; "Compensation for Personal Services" ("Total Compensation System"). DOE-approved standards, if any, shall be applied to the Total Compensation System. The Contractor's Total Compensation System shall be fully documented, consistently applied, and acceptable to the Contracting Officer. Periodic appraisals of contractor performance with respect to the Contractors' Total Compensation System will be conducted.

- (1) The description of the Contractor Employee Compensation Program should include the following components:
 - a. Philosophy and strategy for all pay delivery programs.
 - b. System for establishing a job worth hierarchy.
 - c. Method for relating internal job worth hierarchy to external market.
 - d. System that links individual and/or group performance to compensation decisions.
 - e. Method for planning and monitoring the expenditure of funds.
 - f. Method for ensuring compliance with applicable laws and regulations.
 - g. System for communicating the programs to employees.

- h. System for internal controls and self-assessment.
- i. System to ensure that reimbursement of compensation, including stipends, for employees who are on joint appointments with a parent or other organization shall be on a pro-rated basis.

(b) Reports and Information

The Contractor shall provide the Contracting Officer with the following reports and information with respect to pay and benefits provided under this Contract:

- (1) An Annual Contractor Salary-Wage Increase Expenditure Report to include, at a minimum, breakouts for merit, promotion, variable pay, special adjustments, and structure movements for each pay structure showing actual against approved amounts.
- (2) A list of the top five most highly compensated executives as defined in FAR 31.205-6(p)(2)(ii) and their total cash compensation at the time of Contract award, and annually by January 15th.
- (3) The Compensation and Benefits Report no later than March 1 of each year.

(c) Pay and Benefit Programs

The Contractor shall maintain pay and benefit programs for its employees; provided, however, that employees scheduled to work fewer than 20 hours per week receive only those benefits allowed by UC corporate benefits program. Employees are eligible for benefits, subject to the terms, conditions, and limitations of each benefit program. UC corporate benefit program costs are allowable provided such benefits are granted in accordance with established University policies, and are distributed to all University departments on an equitable basis. UC's historic and current methods for distributing such costs are considered to be equitable. The Contractor shall notify DOE prospectively of each new or changed UC corporate benefit plan that could have a significant impact on costs (i.e., increased costs or savings) under this Contract. Reimbursement for individual compensation is subject to the limits established by 41 U.S.C. 4304(a)(16).

(1) Cash Compensation

- (A) The Contractor shall submit the following, as applicable, to the Contracting Officer for a determination of cost allowability for reimbursement under the Contract:

- (i) Any proposed major compensation program design changes specific to LBNL prior to implementation.
- (ii) Variable pay programs/incentives. If not already authorized under Section J, Appendix A - ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES of the contract, a justification shall be provided with proposed costs and impacts to budget, if any.
- (iii) In the absence of Departmental policy to the contrary (e.g., Secretarial pay freeze) a Contractor that meets the criteria, as set forth below, is not required to submit a Compensation Increase Plan (CIP) request to the Contracting Officer for an advance determination of cost allowability for a Merit Increase fund or Promotion/Adjustment fund:
 - The Merit Increase fund does not exceed the mean percent increase included in the annual Departmental guidance providing the WorldatWork Salary Budget Survey's salary increase projected for the CIP year. The Promotion/Adjustment fund does not exceed 1% percent in total.
 - The budget used for both Merit Increase funds and Promotion/Adjustment funds shall be based on the payroll for the end of the previous CIP year.
 - Salary structure adjustments do not exceed the mean WorldatWork structure adjustments projected for the CIP year and communicated through the annual Department CIP guidance.
 - Please note: No later than the first day of the CIP cycle, Contractors must provide notification to the Contracting Officer of planned increases and position to market data by mutually agreed-upon employment categories.
- (iv) If a Contractor does not meet the criteria included in (iii) above, a CIP must be submitted to the Contracting Officer for an advance determination of cost allowability. The Compensation Increase Plan (CIP) for a Contractor that has received Contracting Officer approval for having an Employee Compensation Program with the components identified under (a)(1) above should include the following components and data:

- (1) Market analysis summary, including a comparison of average pay to market average pay.
- (2) Merit Fund requests for each Employee Group (i.e., S&E, Administrative, Technical, Exempt/Non-Exempt)
- (3) Aging factors used for escalating survey data
- (4) Projection of escalation in the market
- (5) Information to support proposed structure adjustments, if any.
- (6) Analysis to support special adjustments or promotions that exceed the 1% Promotion/ Adjustment fund authorized under Section III of Section J, Appendix A.
- (7) Discussion of recruitment/retention issues (e.g., turnover and hiring) relevant to the proposed increase amounts
- (8) A discussion of the impact of budget and business constraints on the CIP amount.
- (9) Information to support a request for variable pay authorization.
- (10)
 - (a) Reimbursed salary levels are used to establish the annual CIP fund.
 - (b) All pay actions granted under the compensation increase plan are fully charged when they occur regardless of time of year in which the action transpires and whether the employee terminates before year-end.
 - (c) Specific Employee or Payroll groups (e.g., exempt, nonexempt) for which CIP amounts are intended shall be defined by mutual agreement between the contractor and the Contracting Officer.
 - (d) The Contracting Officer may adjust the CIP amount after approval based on major changes in factors that significantly affect the plan amount (for example, in the event of a major reduction in force or significant ramp-up).

- (e) The Contractor may make minor shifts of merit funds between employment groups (e.g., Scientist/Engineer, Admin, Exempt, Non-Exempt) after approval of the CIP in order to meet the compensation requirements of its organization, subject to the following guidelines:
 - Minor shift is defined as up to 10% of the approved merit funds from one employment group to another (e.g., 10% of Professional, Administrative & Technical merit funds shifted to Scientists & Engineers employment group)
 - Total merit increase expenditures will be limited to the total merit fund approved.
 - Contractors will notify the Contracting Officer that funds have been shifted.
- (v) Individual compensation actions for the top contractor official (e.g., laboratory director/plant manager or equivalent) and key personnel not included in the CIP. For those key personnel included in the CIP, DOE will approve salaries upon the initial contract award and when key personnel are replaced during the life of the contract. DOE will have access to all individual salary reimbursements. This access is provided for transparency; DOE will not approve individual salary actions (except as previously indicated).
- (B) The Contracting Officer's approval of individual compensation actions will be required only for the top contractor official (e.g., laboratory director/plant manager or equivalent) and key personnel as indicated in (c)(1)(A)(iii) above. The Contractor shall not be reimbursed for the top contractor official's incentive compensation. The base salary reimbursement level for the top contractor official establishes the maximum allowable salary reimbursement under the contract when compared to subordinate compensation, which would include base salary and any potential incentive compensation under an incentive compensation agreement. Unusual circumstances may require a deviation for an individual on a case-by-case basis. Any such deviations must be approved by the Contracting Officer.

- (C) Severance Pay is not payable to an employee under this Contract if the employee:
 - (i) Voluntarily separates, resigns or retires from employment, (unless associated with a workforce restructuring action in accordance with Section XIII of Section J, Appendix A),
 - (ii) Is offered employment with a successor/replacement contractor,
 - (iii) Is offered employment with a parent or affiliated company, or
 - (iv) Is discharged for cause.
- (D) Service Credit for purposes of determining severance pay does not include any period of prior service for which severance pay has been previously paid through a DOE cost-reimbursement contract.

(d) Pension and Other Benefit Programs

- (1) The program of employee pensions and other benefits employed by the Contractor shall support at a reasonable cost the effective recruitment and retention of a highly skilled workforce at LBNL. No presumption of allowability will exist when the Contractor implements a new LBNL-specific benefits plan or makes changes to existing employee benefits plans that increase costs until the Contracting Officer makes a determination of cost reimbursement for reasonable changes to the program. Changes shall be in accordance with terms and conditions of the contract. Advance notification, rather than approval, is required for LBNL-specific changes that do not increase costs and are not contrary to Departmental policy or written instruction.
- (2) The Contractor shall provide a justification to the Contracting Officer for approval of new or revised LBNL-specific benefit plan changes that addresses:
 - (A) the effect of the plan changes on the Contract net benefit value or per capita benefit costs,
 - (B) provides the dollar estimate of savings or costs, and
 - (C) provides the basis of determining the estimated savings or cost.
- (3)
 - (A) Unless required by State or Federal statute, funding in advance for post-retirement benefits other than pensions (PRB) is not allowable.
 - (B) PRBs will be reimbursed for retiring LBNL employees having

worked not less than 5 years under a DOE cost reimbursement contract with the Contractor, and for The Regents of the University of California (UC) campus/medical center/UCOP retirees having worked less than 5 years at a UC campus/medical center/UCOP whose vesting service credit is based on service at LBNL or other DOE cost reimbursement contract with UC. This subparagraph (B) is effective June 1, 2018.

- (4) Each contractor sponsoring a Defined Benefit pension plan and/or postretirement benefit plan will participate in the annual plan management process, which includes written responses to a questionnaire regarding plan management, providing forecasted estimates of future reimbursements in connection with the plan and participating in a conference call to discuss the contractor submission.
- (5) Each contractor will respond to quarterly data calls issued through ibenefits, or its successor system.
- (6) Following notification from the Contracting Officer that the prime contract is to be competed, the Contractor shall submit an evaluation of the costs of benefits and an actuarial analysis of relative benefit value. The evaluation shall consist of an Employee Benefits Value Study for each benefit tier using no less than 15 comparators, and an Employee Benefits Cost Study Comparison for each benefit tier that analyzes benefit costs for employees on a per capita basis per full time equivalent employee and as a percent of payroll and compares it with the cost reported by the U.S. Department of Labor's Bureau of Labor Statistics or other Contracting Officer approved broad based national survey.

H.22 - CONTRACTOR ACCEPTANCE OF NOTICES OF VIOLATIONS OR ALLEGED VIOLATIONS, FINES, AND PENALTIES

- (a) The Contractor shall accept, in its own name, service of notices of violations or alleged violations (NOVs/NOAVs) issued by Federal or State regulators to the Contractor resulting from the Contractor's performance of work under this contract, without regard to liability. The allowability of the costs associated with fines and penalties shall be subject to the other provisions of this contract.
- (b) The Contractor shall notify DOE promptly when it receives service from the regulators of NOVs/NOAVs and fines and penalties.

H.23 - ALLOCATION OF RESPONSIBILITIES FOR CONTRACTOR ENVIRONMENTAL COMPLIANCE ACTIVITIES

- (a) The Parties commit to full cooperation with regard to acquiring any necessary permits or licenses required by environmental, safety and health (ES&H) laws, codes, ordinances, and regulations of the United States, states or territories, municipalities or other political subdivisions, and which are applicable to the performance of work under this contract. It is recognized that certain ES&H permits will be obtained jointly as co-permittees, and other permits will be obtained by either party as the sole permittee. The Contractor, unless otherwise directed by the Contracting Officer, shall procure all necessary non-ES&H permits or licenses.
- (b) This clause allocates the responsibilities of DOE and the Contractor, referred to collectively as the "Parties", for implementing the environmental requirements at facilities within the scope of the contract. In this Clause, the term environmental requirements means requirements imposed by applicable Federal, State, and local environmental laws and regulations, including, without limitation, statutes, ordinances, regulations, court orders, consent decrees, administrative orders, compliance agreements, permits, and licenses.
- (c)
 - (i) Liability and responsibility for civil fines or penalties arising from or related to violations of environmental requirements shall be borne by the party causing the violation irrespective of the fact that the cognizant regulatory authority may assess any such fine or penalty upon either party or both Parties without regard to the allocation of responsibility or liability under this contract. This contractual allocation of liability for any such fine or penalty is effective regardless of which party signs permit applications, manifests, reports, or other required documents, is a permittee, or is the named subject of an enforcement action or assessment of a fine or penalty. The allowability of the costs associated with fines and penalties assessed against the Contractor shall be subject to the other provisions of this contract.
 - (ii) In the event that the Contractor is deemed to be the primary party causing the violation, and the costs of fines and penalties proposed by the regulatory agency to be assessed against the Government (or the Government and Contractor jointly) are determined by the Government to be presumptively unallowable if allocated against the Contractor, then the Contractor shall be afforded the opportunity to participate in negotiations to settle or mitigate the penalties with the regulatory authority. If the Contractor is the sole party of the enforcement action, the Contractor shall take the lead role in the negotiations and the Government shall participate and have final authority to approve or reject any settlement involving costs charged to the contract.

- (d) DOE agrees that if bonds, insurance, or administrative fees are required as a condition for permits obtained by the Contractor under this contract, and the Contractor has been directed by the Contracting Officer to obtain such permits after the Contractor has notified the Contracting Officer of the costs of complying with such conditions, such costs shall be allowable. In the event such costs are determined by DOE to be excessive or unreasonable, DOE shall provide the regulatory agency with the acceptable form of financial responsibility. Under no circumstances shall the Contractor be required to provide any corporate resources or corporate guarantees to satisfy such regulatory requirements.

H.24 - WORKERS' COMPENSATION INSURANCE

- (a) Workers compensation loss income benefit payments, when supplemented by other programs (such as salary continuation, short-term disability) are to be administered according to UC Policy.
- (b) Contractors approve all workers compensation settlement claims up to \$100,000. Settlement claims above the \$100,000 require Contracting Officer approval.
- (c) Contractors shall provide copies to the Contracting Officer of all renewal policies for workers compensation. The Contractor shall furnish reports as may be required from time to time by the CO.

H.25 - LABOR RELATIONS

- (a) The Contractor shall respect the right of employees to organize and to form, join, or assist labor organizations, to bargain collectively through their chosen labor representatives, to engage in other concerted activities for the purpose of collective bargaining or other mutual aid or protection, and to refrain from any or all of these activities.
- (b) The Contractor shall meet with the Contracting Officer or designee(s) for the purpose of reviewing the Contractor's bargaining objectives that impact LBNL prior to negotiations of any collective bargaining agreement or revision thereto. For LBNL-specific collective bargaining process, the contractor shall consult with and obtain the approval of the Contracting Officer regarding appropriate economic bargaining parameters prior to the Contractor entering into the LBNL-specific collective bargaining process. During the LBNL-specific collective bargaining process, the Contractor shall notify the Contracting Officer before submitting or agreeing to any collective bargaining proposal which can be calculated to affect allowable costs under this contract or which could involve other items of special interest to the Government. During the collective bargaining process, the Contractor shall obtain the approval of the Contracting Officer before proposing or agreeing to changes in any LBNL-specific pension or

other benefit plans. For the purposes of this paragraph, "LBNL-specific collective bargaining process" shall refer to any bargaining process LBNL may undertake separate from the University of California as a whole.

- (c) The Contractor will seek to maintain harmonious bargaining relationships that reflect a judicious expenditure of public funds, equitable resolution of disputes and effective and efficient bargaining relationships consistent with the requirements of FAR, Subpart 22.1 and DEAR, Subpart 970.2201 and all applicable Federal and State Labor Relations laws.
- (d) The Contractor will notify the Contracting Officer or designee in a timely fashion of all labor relations issues and matters of local interest including organizing initiatives, unfair labor practice, work stoppages, picketing and labor arbitrations and settlement agreements and will furnish such additional information as may be required from time to time by the Contracting Officer.
- (e) The Contractor shall provide electronic access to copies of collective bargaining agreements to the Contracting Officer as they are ratified or modified.

H.26 - ADDITIONAL LABOR REQUIREMENTS

The Contractor shall conduct payroll and job-site audits and conduct investigations of complaints as authorized by DOE on all Davis Bacon Act activity, including any subcontracts, as may be necessary to determine compliance with the Davis-Bacon Act. Where violations are found, the Contractor shall report them to the DOE Contracting Officer. The Contracting Officer may require that the Contractor assist in the determination of the amount of restitution and withholding of funds from a subcontractor so that sufficient funds are withheld to provide restitution for back wages due for workers inappropriately classified and paid, fringe benefits owed, overtime payments due, and liquidated damages assessed.

The Contractor shall notify the Contracting Officer of any complaints and significant labor standards violations whether caused by the Contractor or subcontractors. The Contractor shall assist DOE and or/the Department of Labor in the investigation of any alleged violations or disputes involving labor standards. The Contractor shall furnish a Davis-Bacon Semi-Annual Enforcement Report to DOE by April 21 and October 21 each year.

H.27 - CONTRACTOR-FUNDED INSTITUTIONAL SUPPORTING RESEARCH AND DEVELOPMENT

Contractor Supported Research (CSR) is research and development work conducted at Lawrence Berkeley National Laboratory supported with funding from the Contractor intended to assist the Laboratory in performing its mission for DOE or to create new

capabilities at the Laboratory consistent with the overall needs of DOE. CSR may include, but is not limited to, funds from the Berkeley Lab Foundation (BLF), the UC Fee, or other sources of UC funding.

In addition to and separate from the Parties' rights and obligations under Clause I.128, DEAR 970.5217-1, Strategic Partnership Projects Program (Non-DOE Funded Work) (PREV. I.134), the Contractor may, with the approval of the Contracting Officer, conduct CSR at the Laboratory at an annual amount of not more than 2 percent of the total DOE funds received or such higher level as determined by mutual agreement between the Laboratory Director and the Head of Field Element. All proposed CSR will be reviewed and approved by the DOE Contracting Officer based on the following criteria:

- (a) all funds received pursuant to this Clause will comply with applicable safeguards and procedural requirements issued by the DOE Site Office Contracting Officer,
- (b) such research is conducted on a non-interference basis with any DOE-directed and funded work of the Laboratory,
- (c) the research is intended to enhance the capabilities of the Laboratory to continue to perform its mission or to create new capabilities at the Laboratory consistent with the overall needs of DOE,
- (d) the funds are expended under the same terms and conditions that apply to government funds provided under this contract,
- (e) the Laboratory will not use its access to the Laboratory facilities under this program to compete with the private sector,
- (f) the Laboratory will not use any funds pursuant to this program to augment any federally funded research,
- (g) the Laboratory will not pursue any projects under this program that include facilities or equipment that would create more than a nominal future burden on DOE resources to maintain and/or operate, and
- (h) the Laboratory will ensure that the projects under this program are not Strategic Partnership Projects subject to clause I.128 (PREV. I.134).

The Contractor will report annually on the breakdown of sources of funding provided for these CSR activities. The report will be due to the DOE Contracting Officer 60 days after completion of the Fiscal Year. For cost accounting standards purposes such approved research shall be treated as institutional research and development of the Laboratory.

H.28 - RESERVED

H.29 - PERFORMANCE BASED MANAGEMENT AND OVERSIGHT

- (a) Performance-based management shall be the key enabling mechanism for establishing the DOE-Contractor expectations on oversight and accountability. DOE expectations (outside of individual program performance and requirements of laws and regulations) and performance targets shall be established through the Performance Evaluation and Measurement Plan (PEMP) pursuant to the clause entitled "Standards of Contractor Performance Evaluation". This PEMP shall establish the expected strategic results in the areas of mission accomplishment, stewardship and operational excellence. Mission performance goals shall be established by agreement with each major customer of the Laboratory, and customer evaluation will be the primary means of evaluating mission performance. Stewardship and operational goals shall be established by agreement with DOE. Contractor self-assessment, third party certification, and Contractor and DOE independent oversight, as appropriate, shall be the primary means for assessing stewardship and operational performance. Routine DOE oversight of Contractor performance will be conducted at the systems level.
- (b) The performance-based management system shall be the primary vehicle for addressing issues associated with performance expectations. In the event of a substantive performance shortfall in any area, the appropriate improvement expectations and targets will be incorporated into the PEMP and tracked through self-assessment and independent oversight, as appropriate.
- (c) Compliance with applicable Federal, State and local laws and regulations, and permits and licenses, shall be primarily determined by the cognizant regulatory agency and DOE will primarily rely upon the determination of the external regulators in assessing Contract compliance. DOE oversight will be achieved through periodic assessments at the management system level, including review of Contractor self-assessments and assessments by independent third parties.

H.30 - CONTRACTOR ASSURANCE SYSTEM (SEP 2017)

- (a) The Contractor shall develop a contractor assurance system that is executed by the Contractor's Board of Directors (or equivalent corporate oversight entity) and implemented throughout the Contractor's organization. This system provides reasonable assurance that the objectives of the contractor management systems are being accomplished and that the systems and controls will be effective and efficient. The contractor assurance system, at a minimum, shall include the following key attributes:
 - (1) A comprehensive description of the assurance system with processes, key activities, and accountabilities clearly identified.

- (2) A method for verifying/ensuring effective assurance system processes. Third party audits, peer reviews, independent assessments, and external certification (such as VPP and ISO 9001 or ISO 14001) may be used.
- (3) Timely notification to the Contracting Officer of significant assurance system changes prior to the changes.
- (4) Rigorous, risk-based, credible self-assessments, and feedback and improvement activities, including utilization of nationally recognized experts, and other independent reviews to assess and improve the Contractor's work process and to carry out independent risk and vulnerability studies.
- (5) Identification and correction of negative performance/compliance trends before they become significant issues.
- (6) Integration of the assurance system with other management systems including Integrated Safety Management.
- (7) Metrics and targets to assess performance, including benchmarking of key functional areas with other DOE contractors, industry and research institutions. Assure development of metrics and targets that result in efficient and cost effective performance.
- (8) Continuous feedback and performance improvement.
- (9) An implementation plan (if needed) that considers and mitigates risks.
- (10) Timely and appropriate communication to the Contracting Officer, including electronic access, of assurance related information.

The initial contractor assurance system description shall be approved by the Contracting Officer.

- (b) The Government may revise its level and/or mix of oversight of this contract when the Contracting Officer determines that the assurance system is or is not operating effectively.

H.31 - RESERVED

H.32 - LOBBYING RESTRICTION (CONSOLIDATED APPROPRIATIONS ACT SECTION 501) (AL-2019-02)

The Contractor agrees that none of the funds obligated on this award shall be expended, directly or indirectly, to influence congressional action on any legislation or appropriation matters pending before Congress, other than to communicate to Members of Congress as described in 18 U.S.C. § 1913. This restriction is in addition to those prescribed elsewhere in statute and regulation.

H.33 - DEFINITION OF UNUSUALLY HAZARDOUS OR NUCLEAR RISK FOR FAR CLAUSE 52.250-1 INDEMNIFICATION UNDER PUBLIC LAW 85-804

- (a) The term "a risk defined in this contract as unusually hazardous or nuclear" as used in FAR Clause 52.250-1 means the risk of legal liability to third parties (including legal costs as defined in paragraph jj. of Section 11 of the Atomic Energy Act of 1954, as amended, 42 U.S.C. Section 2014jj., notwithstanding the fact that the claim or suit may not arise under section 170 of said Act) arising from actions or inactions in the course of the following performed by the Contractor under this contract:
 - (1) Participation in tasks or activities by the Contractor or its subcontractors on or after March 13, 2020 through June 30, 2020 that is directed or authorized by the U.S. Department of Energy or the U.S. Department of Energy National Nuclear Security Administration, including work for others, as an element of activities taken now and through June 30, 2020 in response to COVID-19, including but not limited to efforts to test for the presence of COVID-19, to provide equipment and resources to address COVID-19, and to develop treatments and vaccines for COVID-19, to the extent the task or activity is not exempt from liability under the Public Readiness and Emergency Preparedness Act (PREP Act) or other law, or the exemption under the PREP Act or other law is limited in scope or amount which is not sufficient to provide complete protection against the liability to which the contractor is exposed.
- (b) The unusually hazardous or nuclear risks described above are indemnified only to the extent that they are not covered by the Price-Anderson Act (section 170d. of the Atomic Energy Act of 1954, as amended, (42 U.S.C. Section 2210d.) or where the indemnification provided by the Price-Anderson Act is limited by the restriction on public liability imposed by section 170e. of the Atomic Energy Act of 1954, as amended, (42 U.S.C. Section 2210e.) to an amount which is not sufficient to provide complete indemnification for the legal liability to which the contractor is exposed.

H.34 - EPIDEMIOLOGICAL STUDIES OF WORKERS AT THE SITE

- (a) The Contractor shall cooperate in the conduct of epidemiological studies of workers at the contract site to include health related programs and projects, or public health activities required by law, performed by personnel, Contractor personnel, grantees and cooperative agreement participants of the Department of Health and Human Services (HHS), pursuant to a Memorandum of Understanding between DOE and HHS, or those performed by the DOE Office of Environment, Safety and Health, its Contractors, grantees, participants in cooperative agreements, and collaborating researchers. The conduct of these studies requires access by researchers to personal information about workers including historical and current data on work assignments and duties, medical history, and exposure to radiation, toxins, and other occupational hazards.

Access to Contractor-owned records containing personal information is governed by the Section I clause entitled, "Access to and Ownership of Records". The studies may also require access by researchers to workers for personal interviews during normal work hours. The Contractor understands that its cooperation in such studies is an integral part of addressing the health and safety of workers at the site and that it may be reimbursed for reasonable costs associated with assisting the various agencies. The Contractor shall identify a point of contact for coordinating this work and for assuring that responses are timely, and shall submit to the Contracting Officer for approval procedures for liaison with external researchers carrying out such work.

- (b) Nothing in this clause shall relieve personnel performing epidemiological studies at the site from observing applicable federal and state laws, regulations and directives governing the conduct of human subjects research, access to classified information, and the privacy of personal information; and it is acknowledged that the Contractor, as the custodian and/or owner of records maintained at the site, has certain contractual and other legal obligations to ensure compliance with such laws, regulations and directives.

H.35 - WORKER HEALTH AND SAFETY

The Contractor must follow the variance to 10 CFR part 851, Worker Safety and Health Program, approved by DOE in August of 2019. The approved variance allows the Contractor to follow applicable California Department of Labor Codes such as California Occupational Safety and Health Administration's (Cal-OSHA) safety and health regulations in Title 8, including an Injury and Illness Prevention Program (IIPP), in lieu of specified provisions in 10 CFR part 851, Subparts B and C, and Appendix A. DOE retains enforcement authority per 10 CFR part 851, subpart A. The contractor shall incorporate the substance of this clause in subcontracts, at any tier, that have responsibilities for performing on-site work.

H.36 - SPECIAL HAZARDS

- (a) The performance of the Contractor's operations hereunder may, in extraordinary circumstances, subject workers to special hazards for which workers' compensation laws, other statutes, the Contractor's welfare plan and policies, or the worker's private insurance may not provide adequate financial protection to the worker in the event of disability, or to the worker's estate in the event of death.
- (b) Definitions.
 - (1) Worker as used in this clause shall mean any person who is or has been employed by the Contractor or any subcontractor, or who is or has been engaged as a consultant or borrowed personnel by the Contractor or any subcontractor.
 - (2) Within the course and scope of employment as used in this clause shall mean that the worker was performing duties as assigned, in conformance with the direction of the Contractor or a subcontractor or an agreement with the Contractor, and in furtherance of the work under this contract.
- (c) The Contractor is authorized to pay to a worker, or in the event of the worker's death, the worker's estate, a sum in an amount which the Contractor determines appropriate, not to exceed the worker's annual salary, whenever—
 - (1) The Contractor believes that a worker has become disabled or has died as a result of any special hazard listed in paragraph (d) below to which the worker has been exposed within the course and scope of employment;
 - (2) The Contractor believes that Workers' compensation laws, other statutes, the Contractor's welfare plan and policies, or the worker's private insurance does not provide adequate financial protection under the particular circumstances of the worker's disability or death; and
 - (3) The Contracting Officer approves the payment.
- (d) The special hazards referred to in paragraphs (a) and (c) above are:
 - (1) Exposure to radiant energy or emitted particles from radioactive materials or from high voltage sources or machines, including ingestion, inhalation or other bodily uptake of radioactive materials.
 - (2) Exposure to toxic materials comprising polonium, uranium, plutonium, fluorine, barium, cadmium, beryllium, any compounds of these, phosgene,

or any other material in use in the course of authorized work which may be shown to have toxic effects.

- (3) Work assignments not specifically covered in this clause and of such a nature as will invalidate the worker's personal insurance otherwise applicable to the injury or death and in effect at the time of performance of the assigned duties.
 - (4) Exposure to hazards incident to flights in military aircraft in the course of which necessary experimental work is conducted. Where a release of liability has been signed, such release will in no way bar the worker from receiving any payment under this clause.
 - (5) Exposure in the course of employment incident to flights in chartered or military aircraft or transportation on military vessels. Where a release of liability has been signed, such release will in no way bar the worker from receiving any payment under this clause.
 - (6) Exposure peculiar to and as the result of work assignment required to be conducted outside the continental United States.
 - (7) Such other exposures not now known but which may later be discovered and which by the nature thereof are similar to the exposure or hazards set forth above. Such other exposures as may from time to time be agreed upon in writing by the Contractor and the Contracting Officer as a basis for payment.
- (e) The total sum authorized to be paid under this clause to a worker or a worker's estate shall not exceed the worker's annual salary even where (1) a payment has been made to a worker on account of a disability and who thereafter dies as a result of the disabling injury or (2) a worker is disabled by one injury compensable under this clause and dies of a separate injury compensable under this clause. The Contractor assumes no obligation hereunder to make any payment from the Contractor's own funds. A release may be required from the payee if the Contracting Officer and the Contractor deem it necessary or appropriate.
- (f) Whenever there is an injury or death which is compensable in accordance with paragraph (c) above, the Contractor may also, with Contracting Officer approval, pay for the cost of transportation (including hotel, subsistence and other incidental expenses) of the spouse and one or more of next of kin of such injured or dead worker from their respective homes to the place where such injured or dead worker shall be situated and their return.

H.37 - DEFENSE AND INDEMNIFICATION OF EMPLOYEES

- (a) The Parties recognize that, under applicable State law, the Contractor could be required to defend and indemnify its officers and employees from and against civil actions and other claims which arise out of the performance of work under this Contract. Except for defense costs made unallowable by Section I clause entitled Payments and Advances, or the Major Fraud Act (41 U.S.C. §256(k)), the costs and expenses, including judgments, resulting from the defense and indemnification of employees from and against such civil actions and claims shall be allowable costs under this contract if incurred pursuant to the terms of Section I clause entitled Insurance—Litigation and Claims.
- (b) Costs and expenses, including judgments, resulting from the defense and indemnification of employees from civil fraud actions filed in federal court by the Government will be unallowable where the employee pleads nolo contendere or the action results in a judgment against the defendant.
- (c) Where in accordance with applicable State law, the Contractor determines it must defend an employee in a criminal action, DOE will consider in good faith, on a case-by-case basis, whether the Contractor has such an obligation. If DOE concurs, the costs and expenses, including judgments, resulting from the defense and indemnification of employees shall be allowable.
- (d) The Contractor shall immediately furnish the Contracting Officer written notice of any such claim or civil action filed against any employee of the Contractor arising out of the work under this contract together with copies of all pleadings filed. The Contractor shall furnish to the Contracting Officer a written determination by the Contractor's counsel that the defense or indemnity of the employee is required by the provisions of applicable State law, that the employee was acting within the course and scope of employment at the time of the acts or omissions which gave rise to the claim or civil action, and that any exclusions set forth under applicable State law for fraud, corruption, or malice on the part of the employee does not apply. A copy of any letter asserting a reservation of rights under applicable State law with respect to the defense or indemnification of such employee shall also be provided to the Contracting Officer. The costs associated with the settlement of any such claim or civil action shall not be treated as an allowable cost unless approved in writing by the Contracting Officer.

H.38 - REAL PROPERTY ASSET MANAGEMENT

- (a) The Contractor shall comply with Departmental requirements and guidance involving the acquisition, management, maintenance, disposition, or disposal of real property assets to ensure that real property assets are available, utilized, and in a suitable condition to accomplish DOE's missions in a safe, secure, sustainable, and cost-effective manner. Contractors shall meet these functional

requirements through tailoring of their business processes and management practices, and use of standard industry practices and standards as applicable. The contractor shall flow down these requirements to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

(b) Contractor shall:

- (1) Submit all real estate actions to acquire, utilize, and dispose of real property assets to DOE for review and approval and maintain complete and current real estate records.
- (2) Perform physical condition and functional utilization assessments on each real property assets at least once every five-year period or at another risk-based interval as approved by SC-1 based on industry leading practices, voluntary consensus standards, and customary commercial practices.
- (3) Establish a maintenance management program including: a computerized maintenance management system (CMMS); a condition assessment system; a master equipment list; maintenance service levels; a method to determine for each asset the minimum acceptable level of condition; methods for categorizing deficiencies as either deferred maintenance and repair (DM) or repair needs; management of the DM backlog; a method to prioritize maintenance work; and a mechanism to track direct and indirect funded expenditures for maintenance, repair, and renovation at the asset level.
- (4) Maintain Facilities Information Management System (FIMS) data and records for all lands, buildings, trailers, and other structures and facilities. FIMS data must be current and verified annually.

H.39 - RESERVED

H.40 - RESERVED

H.40A - LEASE AND OCCUPANCY BY DOE OF REAL PROPERTY OR FACILITIES OWNED BY THE CONTRACTOR

- (a) Campus building space and equipment. The Contractor shall provide building space and equipment as set forth in Section J, Appendix D - LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS, SPACE AND EQUIPMENT.

- (b) Disposition of premises altered or constructed.
- (1) The Contractor and DOE have developed mutually satisfactory arrangements for the lease and occupancy of real property of the Contractor upon which structures and other improvements financed by the Government may be constructed or altered. These lease and occupancy agreements are identified in Section J, Appendix D to this contract. These arrangements also cover the disposition of such structures and improvements. The basic terms and conditions applicable to arrangements for property of the Contractor known as the Wilson Tract, Plots "O" and "M" and the regular Contractor campus (herein deemed to include the Bailey Tract and two sections of state Contractor Tract) are set forth in Section J, Appendix D. It is understood that, except as provided in Section J, Appendix D, DOE shall have no obligation to restore the premises with respect to such structures and improvements.
- (2) It is understood that with respect to construction and alterations financed by the Government to Contractor owned buildings and structures under this contract, the Contractor, after termination or by mutual agreement at any time prior thereto, shall elect whether (i) to retain the benefit of such construction or alteration, in which case the Contractor shall return to or credit the Government with the portion of the reimbursement by the Government for its expenditures therefore determined by negotiation between the Contractor and DOE to be fair and proper, or (ii) to have such premises restored to substantially the same condition as prior to such alteration or construction, in which case the Contractor shall retain all such reimbursement and the Government shall pay the net cost of such restoration; provided that as to any such alteration or construction commenced after October 1, 1962, the Government shall be under no obligation to restore or bear costs of restoration except as otherwise agreed upon.
- (c) Responsibility for environmental restoration and remedial work. Upon termination or expiration of this contract or any lease or occupancy agreements identified in Section J, Appendix D, DOE shall be responsible for complying with applicable laws, regulations, and DOE directives requiring investigation, monitoring, cleanup, containment, restoration, removal, or other remedial activity with respect to any hazardous substances present in the soil, ground water, or buildings as a result of activities conducted during the term of this contract or any prior contract modifications or during the term of any said lease or occupancy agreements.

H.41 - PENSION PLAN

- (a) The following stipulations apply, as appropriate, only to the University of California Retirement Plan (UCRP), "DC Supplemental Benefit" and "DC Plan

Benefit” (as such DC plans are defined in the minutes of the Board of Regents, dated March 24, 2016), which covers University of California employees working under contracts at DOE-owned and Contractor-operated facilities. UC offers its employees three plans as follows: UCRP and DC Supplemental and DC Plan Benefit plans, collectively referred to as the “Pension Plans.”

(b) Basic requirements.

- (1) DOE shall be notified prospectively of each change to the Pension Plans that could have a significant impact on current or future Departmental funding or liabilities; including either:
 - (i) Any change to a benefit, right or feature of a Pension Plan or any change to a funding method or assumption, or
 - (ii) Any change that requires the approval of the Regents of the University of California.
- (2) Prospective notice will be provided to the DOE for each newly adopted Pension Plan change requiring prospective notice as described in subparagraph (b)(1)(i) or (ii) above, including any changes to non-DOE-reimbursed segments of commingled pension plans.
- (3) For purposes of this clause, prospective notice shall mean written notice, including a copy of the proposed change, at least thirty (30) days in advance of approval of each change to the Pension Plans by the Regents of the University as trustees of the Pension Plan.
- (4) The Pension Plans shall be subjected to a limited-scope audit annually that is no less comprehensive than the limited scope audit set forth in ERISA Section 103. The UCRP shall be submitted to a full-scope audit by an outside independent auditor every three years. The Contractor shall provide audit reports to DOE within nine months after the last day of the current plan year to which the audit applies.
- (5) The Contractor shall maintain a separate annual accounting of UCRP liabilities and assets attributable to the Laboratory. Market value of assets on an accrual basis at the beginning of a plan year shall equal the assets at market value on an accrual basis at the end of the prior year based on the separate annual accounting of the prior plan year. The procedures for annual accounting of contributions for each plan year (July 1 through June 30) are that the Contractor will provide an annual accounting of assets associated with DOE-funded employer contributions and employee contributions under Contract No. DE-AC02-05CH11231, as follows:
 - (i) Market value of assets at the beginning of a plan year for UCRP;

- (ii) (A) Employer contributions made during a plan year, less the employer contributions transferred to the Social Security Administration on behalf of contract employee members of UCRP who elected Social Security coverage in 1976 or 1977 with any employer contribution toward the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit separately identified; and
 - (B) Employee contributions made during a plan year, less the employee contributions transferred to the Social Security Administration on behalf of contract employee members of UCRP who elected Social Security coverage in 1976 or 1977.
- (iii) The dollar amount of investment income from applying the rate of return on the accrual-basis market value of UCRP assets to subparagraphs (b)(5)(i), (ii), (iv) and (v);
- (iv) Benefits disbursed on account of Contract employees during the UCRP plan year, including return of accumulated employee contributions;
- (v) UCRP administrative expenses paid from the trust shall be allocated to the Laboratory in the same proportion that the market value of assets assigned to the Laboratory segment bears to the market value of the total asset fund as of the beginning of the plan year. However, there may be situations agreed to by the DOE where specific expenses would directly be charged to the Laboratory in addition to the proportionate share of expenses; and
- (vi) $\text{UCRP market value of assets at the end of the plan year} = (b)(5)(i) + (ii) + (iii) - (iv) - (v)$. The annual accounting shall include the market value of such assets as of June 30, 1991, and as of the end of each plan year thereafter.
- (vii) The annual accounting shall include the following for the DC Supplemental Benefit and the DC Plan Benefit:
 - (A) Employer contributions made to fund the DC Supplemental Benefit.
 - (B) Employer contribution made to fund the DC Plan Benefit.

- (C) Dollar amount of investment income/earnings from the DC Supplemental Benefit and dollar amount of investment income/earnings from the DC Plan Benefit.
 - (D) Administrative expenses, if any.
- (6) Contract Service means work performed within the scope of work under this contract or predecessor contract.
- (7) Contract service assets means the accrual basis market value given by the accounting which is referred to in subparagraph (b)(5).
- (8) Disaffiliation means the cessation of the contractual relationship between the Contractor and the Department of Energy with respect to LBNL.
- (9) All plan provisions of the Pension Plans are applicable to all eligible employees of the Contractor, including those employed at the Laboratory, except as noted below. For partial Plan Years 2016 (10/1/2015-6/30/2016) and full Plan Years 2017 through 2020 (7/1/2016-6/30/2020), the employer contribution rate for the LBNL Segment of UCRP (also referenced in this Clause as the "DOE Segment" or the "Laboratory Segment"), which forms the basis (as described below) for the additional employer contributions toward the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit, is calculated as set forth in the minutes of the Board of Regents, dated September 17, 2015. If the funded ratio of the LBNL Segment for any Plan Year during this five-year period does not exceed the corresponding funded ratio of the Campus and Medical Centers of UCRP, the LBNL Segment employer contribution rate, including the additional employer contributions to the UCRP unfunded liability attributable to employees who elect the DC Plan Benefit, will revert to the respective Campus and Medical Centers Segment employer contribution rates applicable to that Plan Year. For purposes of assessing the liabilities of the DOE Segment of the UCRP as described in paragraphs (e), (f), and (g), the DOE will have no liabilities to the Plan beyond that associated with Laboratory employees who are members of the Plan for work under this contract.
- (10) The additional employer contribution associated with the DC Plan Benefit is the rate that is determined by subtracting the employer contribution rate for the "DC Plan Benefit" (which is the same for all employees) from the LBNL employer contribution rate for the DOE or Laboratory Segment as calculated above. This additional employer contribution goes toward the DOE/Laboratory segment's UCRP unfunded liability and only applies if the segment has such an unfunded actuarial accrued liability, based on actuarial value of assets as of the valuation date in which the segment UCRP employer contribution rate was determined.

- (11) Employer contributions on behalf of members in the UCRP 2016 Tier are subject to a Covered Compensation limit consistent with the limit established annually in accordance with the Public Employees' Pension Reform Act of 2013 (PEPRA), as referenced in the minutes of the Board of Regents, dated March 24, 2016 <http://regents.universityofcalifornia.edu/minutes-index/index.html>.
 - (12) The DOE will be given prospective notice of any changes in administration costs of five percent or more, and the reason for any such changes. Changes in administration costs resulting directly from normal inflation in administration costs or per specific DOE requests do not require notice.
 - (13) If and when the UCRP funded status (measured by dividing the actuarial value of assets by the entry age liability of UCRP), reaches 150 percent, the President of the University will initiate a review of the surplus situation and provide to DOE a copy of the Contractor's recommendations to bring the fund into conformity with the long-term needs of the Plan. Any recommendations by the Contractor for the disposition of the Plan assets in connection with a Plan termination or spin-off will be consistent with the then applicable federal and state laws relating to qualified pension plans and ensure equitable distribution of excess Plan assets to DOE and the University-reimbursed Plan segments as provided in this clause.
 - (14) The DOE will pay costs for any special retirement and/or actuarial analysis that it requests during the period of the contract.
 - (15) DOE has the right to take any action it deems appropriate and consistent with applicable law with reference to the pension plan.
 - (16) The Contractor shall provide notice to the Contracting Officer of UCRP participants transferring from non-LBNL operations to LBNL operations, and vice-versa, on a quarterly basis with such information and as directed by the Contracting Officer.
- (c) Funding requirements.
- (1) Contributions to the UCRP will be based on the actuarial valuation for the Plan and will be approved by the Contractor's Plan Trustees (The Regents of the University of California).
 - (2) DOE agrees to continue to fund for the Contract term(s), as extended, the employer cost of the Pension Plans for Contract employees at contribution rates established from time to time by the Contractor in accordance with (b)(9), above, subject to the following restriction: The DOE funded

contribution to UCRP shall not exceed the full funding limit as defined in the Internal Revenue Code, Section 431.

- (3) The DOE funding policy is intended to be congruent with the basic objectives of the cost accounting standards (CAS) and will generally result in funding consistent with the CAS. If this policy causes a temporary, technical inconsistency with the CAS, the Contractor shall immediately notify the cognizant Contracting Officer and CH's Chief Financial Officer.

Contractors have recourse to the cost principles found at FAR 31.203, 31.205-6, and 31.205-10 and shall avoid penalties on that basis.

- (4) If members of the Laboratory managed by the Contractor for DOE transfer from the Contractor's private operations to the Laboratory, or vice versa, appropriate annual adjustments shall be made to the UCRP pension fund or segments' assets and liabilities.
- (d) Reporting requirements for designated contracts. The following reports shall be submitted within nine months of the last day of the current plan year to DOE for the Laboratory.

- (1) Any annual actuarial valuation report which includes information in the annual separate actuarial valuations for the Laboratory managed by the Contractor for DOE which DOE may reasonably request. DOE shall pay the cost of all separate valuations. At a minimum, these reports for UCRP shall include: an itemized cashflow; the aggregate covered compensation; a distribution of active members by age, service, and salary; separate amount, and time expired since retirement or separation; a brief description of each amortization base, if any, and its date, original amount, and annual payment; an itemization of the changes in the numbers of actives, retirees and terminated vested members during the plan year; the rate of interest currently credited to employee contributions; a statement of the Accounting Standard Codification (ASC) 960 liabilities; a statement of the current liability under Internal Revenue Code Section 431; a development of the total actuarial gain or loss; a statement of actuarial assumptions and methods; calculation of the assets of each Laboratory; calculation of the actuarial asset value; calculation of contribution requirements; and a statement of the changes, if any, in benefits, assumptions or methods since the last report.
- (2) A copy of the Financial Accounting Standards Board Statement ASC 715 report prepared each year for the UCRP to satisfy the expense-reporting requirement of the Office of Management and Budget.
- (3) In order to report the funded status (surplus or deficit) of the Laboratory's portion of UCRP to the DOE, the Contractor will measure the liabilities

using the Entry Age Normal actuarial method and the Actuarial Value of Assets as defined in the valuation report indicated in subparagraph (d)(1) above.

- (4) Forms 5300. Copies of all forms in the 5300 series submitted to the IRS that document the establishment, amendment, termination, spin-off, or merger of a plan submitted to the IRS.
 - (5) Copy of Private Letter Ruling, if any, related to permission for a participant with a DC Plan Benefit to elect to change to the UCRP 2016 Tier at a later date.
- (e) Terminating operations. When operations at a DOE Laboratory are terminated and no further work is to occur under this contract, the following rules shall apply:
- (1) No further benefits for service shall accrue after the Contract termination date, or such earlier date as agreed to by the DOE and the Contractor.
 - (2) The Contractor shall return the DOE portion of the UCRP assets [as defined herein below] by means of a (1) spin-off and termination of the spun-off plan and reversion pursuant to IRC Section 414(l) and ERISA Section 4044, (2) spin off and plan merger pursuant to IRC 414(l), or (3) otherwise transferred at DOE's direction at DOE's sole discretion subject to applicable law. In the case of (2) above, the merger shall be a merger of all DOE assets and all DOE liabilities with another DOE Contractor's DOE-site pension plan.
 - (3) Procedures with respect to the spin-off and reversion.
 - (i) For purposes of spin-off, all Contract Service active liabilities for the Laboratory's UCRP members and all Contract Service inactive liabilities for the Laboratory's UCRP members shall be valued using the UCRP plan provisions, actuarial assumptions, and actuarial cost methods that were used to prepare that UCRP actuarial off and Contract Service to date of spin-off. For purposes of this subparagraph (e)(3), the aforementioned valuation of the Contract Service inactive liabilities shall be known as "B". The UCRP shall retain full and exclusive responsibility for the Contract Service inactive liabilities. For this purpose, "inactive" shall refer to those vested UCRP members who have earned Contract Service and who do not become participants in the spun-off plan.
 - (ii) Assets transferring to the plan that is spun off shall equal A-B for which A is the value of assets on the effective date of spin-off that is provided by the formula in subparagraph (b)(5) and B is as defined in subparagraph (e)(3)(i), above. Any delay in transfer of assets

shall augment the amount A-B by interest on that amount in accordance with the clause of this contract entitled "Interest", as of the effective date of spin-off. The sponsor of the spun-off plan shall have full and exclusive responsibility for the Contract Service active liabilities.

- (iii) The Parties agree that any disposition of Contract Service assets or transfer of liabilities upon a spin-off shall be consistent with the then applicable federal and state laws relating to qualified pension plans and shall be subject to obtaining such rulings and/or approvals from cognizant federal and state agencies as may be required by law or deemed prudent by the Contractor or DOE.
 - (A) When a Spin-off Plan has been established, UCRP shall retain the liabilities associated with pensioners, members receiving UCRP disability income, terminated vested participants, survivors, contract employees who are retained by the Contractor, and anyone else who is not an active employee under the Spin-off Plan.
 - (B) Under a Spin-off Plan acceptable to the DOE in its sole discretion and which fulfills all of the Contractor's fiduciary responsibilities under applicable law, and which further assumes UCRP liabilities for transferred contract employees, the Contractor agrees to transfer to the trustees of the Spin-off Plan an amount equal to the Contract service assets to be transferred as determined above. Such amount shall be transferred as investment holdings of the UCRP, plus any necessary United States Currency, or, by mutual agreement of the Parties, the total amount may be transferred as United States Currency. Agreement by the DOE and Contractor will not be unreasonably withheld.
 - 1. If the asset transfer to the Spin-off Plan is made in the form of investment holdings, such holdings shall include cash, equity securities, and fixed income securities, but shall exclude any investment holding (and earnings thereon) acquired from the effective date of the spin-off. Such assets shall be allocated on a pro-rated basis, with proration for fixed income assets based on rating and sector classification. The pro-rata allocation shall be the ratio of (A) to (B) where, (A) is the Contract service assets referred to in subparagraph (e)(3)(ii) above; and (B) is the total assets of the Retirement Fund of UCRP at market value as of the effective date of disaffiliation. If

transfer of assets cannot be accomplished on the effective date of disaffiliation, assets shall be converted on that date to U.S. Currency and interest shall be credited on those assets as provided in subparagraph (e)(3)(ii) above.

2. The Contractor will transfer assets at a rate at least sufficient to meet the cashflow requirement of transferred employees who go into benefit status under the Spin-off Plan.
- (iv) Subsequent to a termination of the Spin-off Plan, the Contractor shall return the remaining assets (less any tax or other liabilities imposed upon the Contractor because of the receipt of such assets) to DOE.

The Contractor shall not terminate any DOE-reimbursed benefit plan without the DOE's approval. It is the intention of the DOE not to entertain any enhancements in these programs after the Contractor announces the intention not to renew the contract.

- (v) If operations at the DOE Laboratory are terminated and no further work is to occur under the Contract, similar rules will apply to the DC Plan Benefit and DC Supplemental Benefit of the affected employees and assets associated with such benefits, including any associated employee contributions will be transferred to a qualified plan of a successor contractor.
- (f) Contract termination and selection of a successor contractor. Should another contractor, including any contractual entity that includes the University of California, replace the Contractor, the following become requirements for UCRP:
 - (1) Liabilities for present and future benefits of Contract employees in the event there is a successor plan. The liabilities as of the effective date of disaffiliation for members shall be calculated by using the UCRP provisions, actuarial assumptions, and actuarial cost methods as then in effect. Only persons employed by the successor contractor shall be covered by the successor pension plan.
 - (2) Contract service assets in the event there is a successor pension plan.
 - (i) For purposes of disaffiliation as used in subparagraphs (e) and (f) herein, all Contract Service active liabilities for the Laboratory's UCRP members and all Contract Service inactive liabilities for the Laboratory's UCRP members shall be valued using the UCRP plan provisions, actuarial assumptions, and actuarial cost methods that were used to prepare that UCRP actuarial valuation which is most

recent as of the effective date of disaffiliation and Contract Service to date of disaffiliation. For purposes of subparagraph (f)(2), the aforementioned valuation of the Contract Service inactive liabilities shall be known as B. The UCRP shall retain full and exclusive responsibility for the Contract Service inactive liabilities. For purposes of subparagraph (f)(2), "inactive" shall refer to those vested UCRP members who have earned Contract Service and who do not become participants in a plan sponsored by the successor Contractor.

- (ii) Assets transferring to the plan that is spun off shall equal $A-B$ for which A is the value of assets on the date of disaffiliation that is provided by the formula in subparagraph (b)(5) and B is as defined in subparagraph (f)(2)(i), above. Any delay in transfer of assets shall augment the amount $A-B$ by interest on that amount in accordance with the clause of this contract entitled "Interest", as of the effective date of disaffiliation. The successor Contractor shall have full and exclusive responsibility for the Contract Service active liabilities.
 - (iii) Notwithstanding the provisions of this paragraph (f), the Parties further agree to consider the desirability of covering pensioners, survivors, UCRP disability recipients, and terminated vested and nonvested members under a successor plan.
 - (iv) The DC Plan Benefit and DC Supplemental Benefit including any associated employee contributions will be transferred to a qualified plan of the successor contractor at the same time in order to maintain continuity of benefit structures.
- (3) Disposition of contract service assets and liabilities. The Parties agree that any disposition of contract service assets or transfer of liabilities upon Contract termination shall be consistent with the then applicable federal and state laws relating to qualified pension plans and shall be subject to obtaining such rulings and/or approvals from cognizant Federal and State agencies as may be required by law or deemed prudent by the Contractor or DOE.
 - (i) Retention of assets and liabilities. When a successor pension plan has been established by a successor Contractor, UCRP shall retain the liabilities associated with pensioners, survivors, UCRP disability recipients, and terminated vested and nonvested members and active members who are retained by the Contractor as determined in subparagraph (f)(1) above.

(ii) Transfer of assets and liabilities to successor pension plan. Under a successor pension plan acceptable to the DOE and which fulfills all of the Contractor's fiduciary responsibilities under applicable law, and which further assumes UCRP liabilities for transferred Contract employees, the Contractor agrees to transfer to the trustees of such successor plan an amount equal to the contract service assets as determined in subparagraph (f)(2) above. Such amount shall be transferred as investment holdings of the UCRP, plus any necessary United States Currency, or, by mutual agreement of the Parties, the total amount may be transferred as United States Currency. Agreement by the DOE and Contractor will not be unreasonably withheld.

(A) If the asset transfer to the successor Contractor's trust is made in the form of investment holdings, such holdings shall include cash, equity securities and fixed income securities, but shall exclude investment holdings (and earnings thereon) acquired after the effective date of disaffiliation. Such assets shall be allocated on a pro-rated basis, with proration for fixed income assets based on rating and sector classification. The pro-rata allocation shall be the ratio of (A) to (B) where, (A) is the contract service assets referred to in subparagraph (f)(2) above and (B) is the total assets of the Retirement Fund of UCRP at market value as of the effective date of disaffiliation. If transfer of assets cannot be accomplished on the effective date of disaffiliation, assets shall be converted on that date to U.S. Currency and interest then shall be credited on those assets as provided in (f)(2)(ii).

(B) The Contractor will transfer assets at a rate at least sufficient to meet the cashflow requirement of transferred employees who go into benefit status under the successor plan.

(C) If the transfer is made as United States Currency, the transfer shall be increased to include interest on the amount at the rate specified in the clause of this contract entitled "Interest".

(g) UCRP plan termination.

(1) In the unlikely event of termination of the entire UCRP, the Contractor shall not terminate any pension plan (commingled or site-specific) without notifying the Department at least 60 days prior to the scheduled date of plan termination, or if earlier, 60 days before plan members are notified of the plan termination.

- (2) The Contractor may satisfy plan liabilities to all plan members by the purchase of annuities through competitive bidding on the open annuity market or through the payment of lump sums. Any competitive annuity bid process must include at least five bidders, if possible, who satisfy the criteria listed in the United States Department of Labor Interpretive Bulletin 95-1. The final selection of insurance company(ies) shall be based upon a review of the bids of the qualifying companies, along with a prudent assessment of the quality of the annuity providers. The Contractor may also satisfy plan liabilities to plan members through lump sum distributions. Lump sum distributions shall be calculated in accordance with the terms of the UCRP.
- (3) Notwithstanding the provisions in subparagraph (g)(2), if the DOE has a dispute with the Contractor's selection of an annuity provider(s) or the assumptions or methods for determining the lump sum distributions, the DOE may negotiate with the Contractor an alternative that would resolve its concerns.
- (4) DOE-reimbursed assets which are in excess of the DOE liability shall revert to DOE with interest. Interest shall accrue from the effective date of plan termination at the rate specified in the clause of this contract entitled "Interest".

(h) Financial requirement.

- (1) Funds to be paid or transferred to any party as a result of settlements relating to pension plan termination under paragraph (g) above shall accrue interest from the effective date of termination until the date of payment or transfer.
- (2) Special programs. The Contractor shall advise DOE in advance of each early-out program, window benefit, disability program, plan-loan feature, employee contribution refund, asset reversion, or incidental benefit. Any UCRP retirement system programs proposal that is Laboratory specific and that would increase the cost of the Contract beyond that approved by the Contractor for Contractor employees, reduce plan surplus, or increase plan liabilities shall require advance approval by the Contracting Officer and the Contractor.

(i) Post-Contract Responsibilities for Pension and Benefit Plans.

If this contract expires or terminates without a follow-on contract, notwithstanding any other obligations and requirements concerning expiration or termination under any other clause of this contract, including but not limited to the clause of the contract entitled "Termination", the following actions shall occur:

- (1) The Contractor shall continue as plan sponsor of all existing and follow-on pension and welfare benefit plans covering site personnel with responsibility for management and administration of the plans, as directed by DOE, at DOE's sole discretion.
- (2) During the final 12 months of this contract if the parties have not reached agreement on these matters, the Contracting Officer shall provide written direction regarding the provision of post-contract pension and welfare benefits.
- (3) Notwithstanding termination for convenience or default, the contract may be extended as appropriate for purposes deemed necessary by the Contracting Officer, including, but not limited to, obligating funds to pay the Contractor for costs incurred for the Contractor's existing and, if applicable, follow-on, site pension and welfare benefit plans. Such costs shall continue to be allowable in accordance with applicable laws and regulations
- (4) DOE-approved pension and welfare plan contributions and plan administration costs, and pension plan asset management costs, will continue to be allowable and fully reimbursed under this contract, unless other arrangements have been approved by the Contracting Officer.

H.42 - RESERVED

H.43 - SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT

DOE shall make arrangements with the Contractor to execute a Special Financial Institution Account Agreement (Section J, Appendix C - SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT FOR USE WITH THE PAYMENTS CLEARED FINANCING ARRANGEMENT, to the Contract), in accordance with DOE requirements and provide said Agreement to the Contractor for its execution. Upon execution by the Contractor, said Agreement shall supersede the existing Section J, Appendix C attached to this Contract and shall be substituted therefore without any further action of the Parties.

H.44 - AGREEMENTS AND COMMITMENTS

- (a) The resources proposed by the Contractor and accepted by the Government are incorporated into the contract as set forth below:

None

The Contractor shall provide the above described resources in the amount, manner, and schedule as specified in Contractor's response to Provision L.8(d) of RFP No. DE-RP02-04CH11231. If the Contractor fails to provide any or all of these resources or to make progress toward providing these resources, the Government may exercise any of its rights and remedies under the contract, including those contained in the provision of the Section I clause entitled, "Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts, Alternate I."

- (b) Any costs incurred by the Contractor in providing any of these resources are expressly unallowable under the contract.

H.45 - RESERVED

H.46 - RESERVED

H.47 - RESERVED

H.48 - INFORMATION TECHNOLOGY ACQUISITIONS

Prior to use under this contract, all information technology acquisitions shall include the appropriate information technology security policies and requirements, including use of common security configurations available from the National Institute of Standards and Technology's website at <http://checklists.nist.gov> commensurate with the mission of the contract and conducive to the research and development efforts of the laboratory. This requirement shall be included in all subcontracts which are for information technology acquisitions; and the Laboratory CIO shall annually certify to the Contracting Officer that this requirement is being incorporated into information technology acquisitions.

H.49 - CONFERENCE MANAGEMENT

The Contractor agrees that:

- (a) The Contractor shall ensure that Contractor-sponsored conferences reflect the DOE's commitment to fiscal responsibility, appropriate stewardship of taxpayer funds and support the mission of DOE as well as other sponsors of work. In addition, the contractor will ensure conferences do not include any activities that create the appearance of taxpayer funds being used in a questionable manner.

(b) Determination of a Conference.

- 1) Definition. "Conference" is defined in the Federal Travel Regulation as, "[a] meeting, retreat, seminar, symposium, or event that involves attendee travel." The term 'conference' also applies to training activities that are considered to be conferences under 5 C.F.R 410.404. However, this definition is only a starting point.
- 2) Additional Indicia of Conferences. Conferences subject to this guidance are also often referred to by names other than "conference." Other common terms used include conventions, expositions, symposiums, seminars, workshops, or exhibitions. They typically involve topical matters of interest to, and the participation of, multiple agencies and/or nongovernmental participations. Indications of a formal conference often include but are not limited to registration, registration fees, a published substantive agenda, and scheduled speakers, or discussion panels. Individual events may qualify as conferences without meeting all of the indicia listed above, but will generally meet some of them. Please note that some training events may qualify as conferences for the purposes of this guidance, particularly if they take place in a hotel or conference center.
- 3) Local Conferences. Events within the local duty location that do not require advance travel authorization may also qualify as a conference for the purposes of this guidance if the event exhibits other key indicia of a conference, especially the payment of a registration, exhibitor, sponsor, or conference fee.
- 4) Exemptions. For the purposes of this guidance, the exemptions below apply and these types of activities should not be considered to be conferences even if the event meets the general definition of conference in section 1 above. Even where an event is considered exempt for this guidance, organizations are expected to continue to apply strict scrutiny to DOE's participation to ensure the best use of government funds and adherence with not only all applicable laws and policy, but the underlying spirit or principles, include ensuring that only personnel attend events that have a mission-essential need to do so, that expenses be kept to a minimum, and that participation in any associated social events be limited and restrained to the greatest degree practicable to avoid the appearance of impropriety. Exemptions from this guidance should be granted sparingly and only when events fully meet the definition and intent of the criteria below:
 - i) Meetings necessary to carry out statutory oversight functions. This exemption would include activities such as investigations, inspections, audits, or non-conference planning site visits.

- ii) Meetings to consider internal agency business matters held in Federal facilities. This exemption would include activities such as meetings that take place as part of an organization's regular course of business, do not exhibit indicia of a formal conference as outlined above, and take place in a Federal facility.
 - iii) Bi-lateral and multi-lateral international cooperation engagements that do not exhibit indicia of a formal conference as outlined above that are focused on diplomatic relations.
 - iv) Formal classroom training which does not exhibit indicia of a formal conference as outlined above.
 - v) Meetings such as Advisory Committee and Federal Advisory Committee meetings, Solicitation/Funding Opportunity Announcement Review Board meetings, peer review/objective review panel meetings, evaluation panel/board meetings, and program kick-off and review meetings (including those for grants and contracts).
- (c) Contractor-sponsored conferences include those events that meet the conference definition and either or both of the following:
- 1) The Contractor provides funding to plan, promote, or implement an event, except in instances where the Contractor:
 - i) covers participation costs in a conference for specified individuals (e.g., students, retirees, speakers, etc.) in a total amount not to exceed \$10,000 (by individual contractor for a specific conference); or
 - ii) purchases goods or services from the conference planners (e.g., attendee registration fees, renting booth space).
 - 2) The Contractor authorizes use of the official seal, or other seals/logos/ trademarks to promote a conference. Exceptions include non-M&O contractors who use their seal to promote a conference that is unrelated to their DOE contract(s) (e.g., if a DOE IT contractor were to host a general conference on cyber security).
- (d) Attending a conference, giving a speech or serving as an honorary chairperson does not connote sponsorship.
- (e) The Contractor will provide information on conferences they plan to sponsor with expected costs exceeding \$100,000 in the Department's Conference Management Tool, including:

- 1) Conference title, description, and date;
 - 2) Location and venue;
 - 3) Description of any unusual expenses (e.g., promotional items);
 - 4) Description of contracting procedures used (e.g., competition for space/support);
 - 5) Costs for space, food/beverages, audio visual, travel/per diem, registration costs, recovered costs (e.g., through exhibit fees); and
 - 6) Number of attendees.
- (f) The Contractor will not expend funds on the proposed Contractor-sponsored conferences with expenditures estimated to exceed \$100,000 until notified of approval by the Contracting Officer.
- (g) For DOE-sponsored conferences, the Contractor will not expend funds on the proposed conference until notified by the Contracting Officer.
- 1) DOE-sponsored conferences include events that meet the definition of a conference and where the Department provides funding to plan, promote, or implement the conference and/or authorizes use of the official DOE seal, or other seals/logos/ trademarks to promote a conference. Exceptions include instances where DOE:
 - i) covers participation costs in a conference for specified individuals (e.g., students, retirees, speakers, etc.) in a total amount not to exceed \$10,000 (by individual contractor for a specific conference); or
 - ii) purchases goods or services from the conference planners (e.g., attendee registration fees, renting booth space); or providing funding to the conference planners through Federal grants.
 - 2) Attending a conference, giving a speech, or serving as an honorary chairperson does not connote sponsorship.
 - 3) The Contractor will provide cost and attendance information on their participation in all DOE-sponsored conference in the DOE Conference Management Tool.
- h) For non-Contractor sponsored conferences, the Contractor shall develop and implement a process to ensure costs related to conferences are allowable,

allocable, reasonable, and further the mission of DOE. This process must at a minimum:

- 1) Track all conference expenses; and
 - 2) Require the Laboratory Director (or equivalent) or Chief Operating Officer approve a single conference with net costs to the contractor of \$100,000 or greater.
- i) Contractors are not required to enter information on non-sponsored conferences in DOE's Conference Management Tool.
 - j) Once funds have been expended on a non-sponsored conference, contractors may not authorize the use of their trademarks/logos for the conference, provide the conference planners with more than \$10,000 for specified individuals to participate in the conference, or provide any other sponsorship funding for the conference. If the Contractor does so, its expenditures for the conference may be deemed unallowable.

H.50 - RISK MANAGEMENT AND INSURANCE PROGRAMS (DEC 2014)

Contractor officials shall ensure that the requirements set forth below are applied in the establishment and administration of DOE-funded prime cost reimbursement contracts for management and operation of DOE facilities and other designated long-lived onsite contracts for which the contractor has established separate operating business units.

1. BASIC REQUIREMENTS

- a. Maintain commercial insurance or a self-insured program, (i.e., any insurance policy or coverage that protects the contractor from the risk of legal liability for adverse actions associated with its operation, including malpractice, injury, or negligence) as required by the terms of the contract. Types of insurance include automobile, general liability, and other third party liability insurance. Other forms of coverage must be justified as necessary in the operation of the Department facility and/or the performance of the contract, and approved by the DOE.
- b. Contractors shall not purchase insurance to cover public liability for nuclear incidents without DOE authorization (See DEAR 970.5070, INDEMNIFICATION, and DEAR 950.70, NUCLEAR INDEMNIFICATION OF DOE CONTRACTORS).
- c. Demonstrate that insurance programs and costs comply with the cost limitations and exclusions at FAR 28.307, INSURANCE UNDER COST REIMBURSEMENT CONTRACTS, FAR 31.205-19, INSURANCE AND

INDEMNIFICATION, DEAR 952.231-71 INSURANCE-LITIGATION AND CLAIMS, and Clause I.144 – DEAR 970.5228-1, INSURANCE-LITIGATION AND CLAIMS (PREV. I.98).

- d. Demonstrate that the insurance program is being conducted in the government's best interest and at reasonable cost.
- e. The contractor shall submit copies of all insurance policies or insurance arrangements to the Contracting Officer no later than 30 days after the purchase date.
- f. When purchasing commercial insurance, the contractor shall use a competitive process to ensure costs are reasonable.
- g. Ensure self-insurance programs include the following elements:
 - (1) Compliance with criteria set forth in FAR 28.308, Self-Insurance. Approval of self-insurance is predicated upon submission of verifiable proof that the self-insurance charge does not exceed the cost of purchased insurance. This includes hybrid plans (i.e., commercially purchased insurance with self-insured retention (SIR) such as large deductible, matching deductible, retrospective rating cash flow plans, and other plans where insurance reserves are under the control of the insured). The SIR components of such plans are self-insurance and are subject to the approval and submission requirements of FAR 28.308, as applicable.
 - (2) Demonstration of full compliance with applicable state and federal regulations and related professional administration necessary for participation in alternative insurance programs.
 - (3) Safeguards to ensure third party claims and claims settlements are processed in accordance with approved procedures.
 - (4) Accounting of self-insurance charges.
 - (5) Accrual of self-insurance reserve. The Contracting Officer's approval is required and predicated upon the following:
 - (a) The claims reserve shall be held in a special fund or interest bearing account.
 - (b) Submission of a formal written statement to the Contracting Officer stating that use of the reserve is exclusively for the payment of insurance claims and losses, and that DOE shall receive its equitable share of any excess funds or reserve.

- (c) Annual accounting and justification as to the reasonableness of the claims reserve submitted for Contracting Officer's review.
 - (d) Claim reserves, not payable within the year the loss occurred, are discounted to present value based on the prevailing Treasury rate.
 - h. Separately identify and account for interest cost on a Letter of Credit used to guarantee self-insured retention, as an unallowable cost and omitted from charges to the DOE contract.
 - i. Comply with the Contracting Officer's written direction for ensuring the continuation of insurance coverage and settlement of incurred and/or open claims and payments of premiums owed or owing to the insurer for prior DOE contractors.
2. PLAN EXPERIENCE REPORTING. The Contractor shall:
- a. provide the Contracting Officer with annual experience reports for each type of insurance (e.g., automobile and general liability), listing the following for each category:
 - (1) The amount paid for each claim.
 - (2) The amount reserved for each claim.
 - (3) The direct expenses related to each claim.
 - (4) A summary for the year showing total number of claims.
 - (5) A total amount for claims paid.
 - (6) A total amount reserved for claims.
 - (7) The total amount of direct expenses.
 - b. provide the Contracting Officer with an annual report of insurance costs and/or self-insurance charges. When applicable, separately identify total policy expenses (e.g., commissions, premiums, and costs for claims servicing) and major claims during the year, including those expected to become major claims (e.g., those claims valued at \$100,000 or greater).
 - c. provide additional claim financial experience data as may be requested on a case-by-case basis.

3. TERMINATING OPERATIONS. The Contractor shall:
 - a. ensure protection of the government's interest through proper recording of cancellation credits due to policy terminations and/or experience rating.
 - b. identify and provide continuing insurance policy administration and management requirements to a successor, other DOE contractor, or as specified by the Contracting Officer.
 - c. reach agreement with DOE on the handling and settlement of self insurance claims incurred but not reported at the time of contract termination; otherwise, the contractor shall retain this liability.
4. SUCCESSOR CONTRACTOR OR INSURANCE POLICY CANCELLATION. The Contractor shall:
 - a. obtain the written approval of the Contracting Officer for any change in program direction; and
 - b. ensure insurance coverage replacement is maintained as required and/or approved by the Contracting Officer.

H.51 - MANAGEMENT AND OPERATING CONTRACTOR (M&O) SUBCONTRACT REPORTING (NOV 2017)

- (a) Definitions. As used in this clause-

"First-tier subcontract" means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor's supplier agreements with vendors, such as long-term arrangements for materials or supplies that would benefit multiple contracts and/or the costs of which are normally applied to a Contractor's general and administrative expenses or indirect costs.

"Management and Operating Contractor Subcontract Reporting Capability (MOSRC)" means a DOE system and associated processes to collect key information about Management and Operating Contractor first-tier subcontracts for reporting to the Small Business Administration.

"Transaction" means any contract, order, other agreement or modification thereof (other than one involving an employer-employee relationship) entered into by the Contractor acquiring supplies or services (including construction) required solely for performance of the prime contract.

- (b) Reporting. The Contractor shall collect and report data via MOSRC necessary for DOE to meet its agency reporting requirements, as determined by the Small Business Administration, in accordance with the most recent reporting instructions at <https://energy.gov/management/downloads/mosrc-reporting-instructions>. The Contractor shall report first-tier subcontract data in MOSRC. Classified subcontracts shall not be reported. Subcontracts with Controlled Unclassified Information marking shall not be reported if restricted by its category. Contact your Contracting Officer if uncertain of information reporting requirements. The MOSRC reporting requirement does not replace any other reporting requirements (e.g. the Electronic Subcontracting Reporting System or the FFATA Subcontracting Reporting System).

H.52 - MULTIFACTOR AUTHENTICATION FOR CONTRACTOR INFORMATION SYSTEMS (JUN 2016)

The Contractor shall take actions to achieve multifactor authentication (MFA) for standard and privileged user accounts of all classified and unclassified networks by September 30, 2016. Any delays that are due to DOE's failure to provide adequate Government Furnished Equipment in a timely manner will be taken into account in assessing the accomplishment of this requirements.

H.53 - AGREEMENTS FOR COMMERCIALIZING TECHNOLOGY (APR 2018)

This H-clause authorizes the use of the mechanism: Agreements for Commercializing Technology (ACT). In accordance with the requirements specified in this H-clause, the M&O Contractor may conduct third party-sponsored research at the M&O Contractor's risk. While the Department believes ACT has the potential to greatly assist in the commercialization of technologies, it also specifically recognizes that ACT can be used for other engagements with outside entities that are not necessary aimed at commercialization (e.g., technical assistance, training, studies), but which facilitate access to DOE facilities. In performing ACT work, the M&O Contractor may use staff and other resources associated with this M&O contract for the purposes of conducting technical services¹, training, studies, performing research and development, and/or furthering the technology transfer mission of the Department, only when such work does not interfere with DOE-funded activities conducted as authorized by other parts of this M&O contract. The resources that may be used include Government- owned or leased facilities, equipment, or other property that is either in the M&O Contractor's custody or available to the M&O Contractor under this M&O contract (unless specifically excluded by the Contracting Officer). For M&O Contractor activities conducted under authority of

¹ Services that are routinely performed for DOE and multiple sponsors with little to no variance in the scope of work e.g., calibration services.

this H-clause, the M&O Contractor shall provide full-cost recovery, assume indemnification and liability as provided in paragraph 9 below, and may assume other risks normally borne by private parties sponsoring research at the DOE national laboratories and production plants. In exchange for accepting such risks, or for other private consideration provided by the M&O Contractor, the M&O Contractor is authorized to negotiate separate ACT agreements with the sponsoring third parties. Under ACT agreements, the M&O Contractor may charge those parties additional compensation beyond the full costs of the work at the facility.

The following applies to all work conducted under the ACT mechanism regardless of the source of funding:

1. Authority to Perform work under this H-clause. Pursuant to the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.) and other applicable authorities, the M&O Contractor may perform work for non-Federal entities, in accordance with the requirements of this H-clause.
2. M&O Contractor's Implementation. For ACT work conducted under the contract, the M&O Contractor must draft, implement, and maintain formal policies, practices, and procedures in accordance with this H-clause, which must be approved by the Contracting Officer, and such approval shall not be unreasonably withheld.
3. Conditions for Participation in ACT. The M&O Contractor:
 - a. Must not perform ACT activities that would place it in direct competition with the private sector;
 - b. May only conduct work under this H-clause if the work does not interfere with or adversely affect projects and programs the M&O Contractor conducts on behalf of the DOE under this contract, and complies with the terms and conditions of the prime contract. If the Government determines that an activity conducted under this H-clause interferes with the Department's work under the M&O contract, or that termination/stay/suspension of work under an ACT agreement is in the best interest of the Government, the M&O Contractor must stop the interfering ACT work immediately to the extent necessary to resolve the interference. At any time, the Contracting Officer may require the use of specified Government-owned or leased property and facilities for the exclusive use of the DOE mission by providing a written notice excluding said property from the M&O Contractor's activities under this H-clause. Any cost incurred as a result of Contracting Officer decisions identified in this subparagraph shall be borne by the M&O Contractor. The Contracting Officer shall provide to the M&O Contractor in writing its decision, identifying the issues and reasons for the decisions. The M&O Contractor

shall be provided with a reasonable opportunity to address and resolve the issues identified by the Contracting Officer;

- c. Except as otherwise excluded in this H-clause, must perform all ACT activities in accordance with the standards, policies, and procedures that apply to performance under this M&O contract, including but not limited to environmental, safety and health, security, safeguards and classification procedures, and human and animal research regulations;
- d. Must maintain and provide when requested by the DOE Contracting Officer, a summary of project information for each active ACT project, consisting of: sponsor name; total estimated costs; project title and description; project point of contact; and estimated start and completion dates;
- e. Is responsible for addressing the following items in ACT agreements as appropriate: disposition of property acquired under the agreement; export control; notice of intellectual property infringement; and a statement that the Government and/or the M&O Contractor shall have the right to perform similar services in the Statement of Work for other Parties as otherwise authorized by this M&O contract subject to applicable data restrictions;
- f. Must include a standard legal disclaimer notice on all publications generated under ACT activities. Each DOE M&O Contractor has its own pre-approved publications statement, and this should be included; and
- g. Must insert the following disclaimer in each agreement under ACT, which must be conspicuous (e.g. bold type, all capital letters, or large font) in all Agreements under ACT so as to meet the standards of due notice.

DISCLAIMER

THIS AGREEMENT IS SOLELY BETWEEN [INSERT NAME OF THE M&O CONTRACTOR] AND [THE OTHER IDENTIFIED PARTY]. THE UNITED STATES GOVERNMENT IS NOT A PARTY TO THIS AGREEMENT, THIS AGREEMENT DOES NOT CREATE ANY OBLIGATIONS OR LIABILITY ON BEHALF OF THE GOVERNMENT AND THE GOVERNMENT MAKES NO EXPRESS OR IMPLIED WARRANTY AS TO THE CONDITIONS OF THE RESEARCH OR ANY INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DEVELOPED UNDER THIS AGREEMENT, OR THE OWNERSHIP, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OF THE RESEARCH OR RESULTING PRODUCT; THAT THE GOODS, SERVICES, MATERIALS, PRODUCTS, PROCESSES, INFORMATION, OR DATA TO BE FURNISHED HEREUNDER WILL ACCOMPLISH INTENDED RESULTS OR ARE SAFE FOR ANY PURPOSE INCLUDING THE INTENDED PURPOSE;

OR THAT ANY OF THE ABOVE WILL NOT INTERFERE WITH PRIVATELY OWNED RIGHTS OF OTHERS. THE GOVERNMENT SHALL NOT BE LIABLE FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES ATTRIBUTED TO SUCH RESEARCH OR RESULTING PRODUCT, INTELLECTUAL PROPERTY, GENERATED INFORMATION, OR PRODUCT MADE OR DELIVERED UNDER THIS AGREEMENT. THIS DISCLAIMER DOES NOT AFFECT ANY RIGHTS THE GOVERNMENT MAY HAVE AGAINST THIRD PARTIES ARISING FROM WORK CONDUCTED IN CONNECTION WITH THIS AGREEMENT.

4. Contracting Authority.

- a. Subject to DOE approval as described in this paragraph, the M&O Contractor is hereby authorized to negotiate terms and conditions between the M&O Contractor and third parties when entering into ACT agreements. The M&O Contractor will have no authority to bind the Government in any way with such terms and conditions. The Government will have no obligation to the M&O Contractor due to such terms and conditions.
- b. The M&O Contractor shall submit an ACT proposal package (Package) to the Contracting Officer for approval prior to beginning work under an ACT agreement.
 - i. A complete Package will include at a minimum: the identity of the parties to the ACT agreement; the principal place of performance; any foreign ownership or control of the ACT agreement parties; a Statement of Work; an estimate of costs incurred under the M&O contract; an anticipated schedule; identification of key Government equipment and facilities that will be used under the ACT agreement; a list of expected deliverables; identification of the Intellectual Property (IP) lead and proposed selection of IP rights, as defined in DOE Class Waiver W(C)-2011-013; a signed certification by the private party(ies) that the M&O Contractor offered the option to use CRADA and SPP alternatives (see paragraph 7a) sufficiently such that the private parties are aware of the relative costs and other differences between the ACT agreement and the CRADA and SPP alternatives; source of funds, including a statement that no Federal funds, including pass-through funds received as a subcontractor or partner, are being utilized to fund the agreement except as authorized under the FedACT pilot (see paragraph 14 below); applicable ES&H and NEPA documentation; a statement of consideration, summarizing the risk and/or consideration offered the ACT participants in exchange for charging beyond full cost recovery or for other compensation

provided by the participants; and when multiple third parties are parties to the ACT agreement, or as otherwise requested by the Contracting Officer, an IP Management Plan that sets forth the proposed disposition of IP rights, and income and royalty sharing, among the parties to an ACT agreement.

- ii. If the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party to the ACT agreement, the M&O Contractor shall include as necessary a project-specific addendum to the Master OCI Plan in the Package to address special circumstances not fully anticipated in the prior approved Master OCI Plan (see paragraph 7).
- iii. If the ACT agreement includes a foreign entity as a party or the statement of work includes the use of human subjects, animal subjects, classified or sensitive subject matter or describes a work scope involving high risks or hazards including environmental issues, the M&O Contractor shall include additional information as necessary or as requested by the Contracting Officer.
- c. The Contracting Officer shall use reasonable best efforts to review each complete Package submitted by the M&O Contractor under subparagraph 4.b. of this H-clause within ten (10) business days of receiving the Package and provide the M&O Contractor with approval or non-approval of the Package. The review of the complete Package by the Contracting Officer shall include a determination that the proposed work: (1) is consistent with or complementary to DOE missions and the contract statement of work; (2) will not adversely impact programs under the contract scope of work; (3) will not place the contractor in direct competition with the domestic private sector; and (4) will not create a detrimental future burden on DOE resources.
- d. Except as conditionally allowed under subparagraph i. below, the Contracting Officer must approve the Package before the M&O Contractor may begin work under the proposed ACT agreement. If the Contracting Officer rejects the Package then the Contracting Officer must provide said rejection to the M&O Contractor in writing including the reasons for the rejection. Upon receipt of the Contracting Officer's written rejection, the M&O Contractor agrees to not further pursue the work described in the package or incur additional costs under the M&O contract for the work described in the Package.
 - i. The M&O Contractor may request a preliminary determination that the proposed scope of work is consistent with the contract statement of work and the Contracting Officer will use his/her best

efforts to provide such a determination within three (3) business days. Upon such a determination from the Contracting Officer, the M&O Contractor may begin work under the ACT agreement at the M&O Contractor's risk pending final approval of the complete Package. The M&O Contractor must submit a complete Package, as identified in subparagraph 4.b. above, within (10) business days of the preliminary determination. All costs associated with the performance of work under a preliminary determination are the responsibility of the M&O Contractor, as no Federal funds will be used to fund any work conducted under this H-clause.

- ii. If the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party sponsoring work in connection with the ACT agreement, work may not commence until approval of the complete Package by the Contracting Officer.
5. Advance Payment for ACT Projects. The M&O Contractor shall be responsible for providing adequate advance payment for ACT work conducted under this H-clause consistent with procedures defined in the Department's Financial Management Handbook. The M&O Contractor shall be solely responsible for collecting payments from third parties for any work conducted under this H-clause and such collections shall be independent of providing advance payment. For such payments and for any costs, obligations, or liabilities arising due to the M&O Contractor's work under this H-clause, the M&O Contractor is entirely at risk and the Government shall have no risk.
6. Costs. All direct costs associated with the M&O Contractor's work conducted under this H-clause shall be directly charged to separate and identifiable accounts in accordance with the requirements of the Department's Financial Management Handbook. An allocable portion of indirect costs normally applied to equivalent work under this M&O contract shall also be applied to work conducted under this H-clause in accordance with the requirements of the Financial Management Handbook. As required by the Financial Management Handbook, changes to the Handbook will be incorporated into this H-clause by a unilateral administrative modification to the contract. In addition, all work must be performed at full costs which would include Federal Administrative Charge (FAC).
- a. Work conducted under this H-clause shall be excluded from the M&O contract award fee calculations and such fee shall not be allocable to work conducted under this H-clause.
 - b. Federal funds will not be used to fund work conducted under this H-clause except as authorized under the FedACT pilot (see paragraph 14 below).

7. Organizational Conflict of Interest. The M&O Contractor shall conduct work under this H- clause in a manner that minimizes the appearance of conflicts of interest and avoids or mitigates actual conflicts of interest with the M&O Contractor's functions under this M&O contract. Accordingly, the M&O Contractor shall develop an Organizational Conflict of Interest Mitigation Plan (OCI Plan). The OCI Plan should address OCI issues that arise as a result of the M&O Contractor taking a financial interest in ACT projects, especially in those cases where the M&O Contractor retains rights in ACT IP. Said OCI Plan shall be provided to the Contracting Officer for review and approval as soon as practicable after execution of the M&O contract modification incorporating this H-clause into the M&O contract. Unless provided otherwise by the Contracting Officer, no work on ACT agreements may commence before Contracting Officer approval of the OCI Plan. In addition to those elements expressly stated in the OCI Plan, the Department may condition any ACT transaction on such other mitigating conditions it determines are appropriate. The OCI Plan shall, at a minimum, include elements that address the following:
- a. Full Disclosure. Before work can begin under an ACT transaction, all parties to ACT agreements must sign a DOE-approved certification that they have been fully informed about the availability of SPP agreements and CRADAs in addition to ACT. The certification at a minimum shall briefly describe SPP agreements, CRADAs and ACT, and will include the relative disposition of IP rights and the costs (including identification of any additional costs e.g. insurance, and other compensation to the M&O Contractor under ACT) for each type of agreement for the scope of work being proposed.
 - b. Priority of Work. The M&O Contractor shall not give work under ACT any special attention or priority over other work under the DOE M&O contract. Work under ACT shall be approved by the Contracting Officer and assigned the same priority relative to other work under the DOE M&O contract that it would normally have if performed under a non-Federal SPP agreement. The Contracting Officer has discretion to determine the agency's priority of work, considering the M&O Contractor's input.
 - c. Participation by Contractor-related Entity: Where the M&O Contractor, the M&O Contractor's parent, member, subsidiary, or other entity in which the M&O Contractor, the M&O Contractor's parent, member or subsidiary has an equity interest, is a party to the ACT agreement, the M&O Contractor shall include as necessary an addendum to the OCI Plan to address special circumstances not fully anticipated in the OCI Plan.
 - d. Right of Inquiry for ACT IP Designation. DOE Patent Counsel may inquire into the M&O Contractor's designation of any invention or data as arising under an ACT transaction. The M&O Contractor is responsible for curing

any defect identified in such inquiry, and if the M&O Contractor cannot adequately justify the designation or cure the defect, then the parties to the ACT agreement may receive modified rights in the IP to the degree necessary to resolve the issues identified by the inquiry.

8. Intellectual Property. Disposition of intellectual property (IP) arising from work conducted under this H-clause shall be governed by Class Waiver W(C)-2011-013 (ACT Class Waiver) which is incorporated herein by reference.
 - a. All Contractor ACT inventions shall be reported to DOE pursuant to the requirements of the [cite Patent Rights –M&O contract, Nonprofit Organization or Small Business Firm Contractor] clause of this M&O contract.
 - b. In reporting ACT inventions, the M&O Contractor shall identify the ACT agreement under which the invention was made and specify the rights reserved by the Government pursuant to the ACT Class Waiver.
 - c. All technical data identified by the ACT client as Protected ACT Information shall also be marked to identify the ACT agreement under which the data was generated.
 - d. The M&O Contractor shall ensure that all rights and obligations concerning ACT IP, including the appropriate IP provisions authorized in the ACT Class Waiver, are clearly provided in ACT agreements, and that all parties granted any rights in ACT IP are informed of the terms of the waived rights, including the rights reserved by the Government.
 - e. Where the M&O Contractor receives ownership or license rights to ACT IP, the M&O Contractor may elect to commercialize the ACT IP consistent with the Technology Transfer Mission clause of this M&O contract.
 - f. As an alternative to subparagraph e., if the M&O Contractor has an authorized Private Funded Technology Transfer (PFTT) program, the M&O Contractor may elect to retain private ownership of the ACT IP and commercialize the IP under its applicable PFTT clause, using its private funds, where no costs for developing, patenting, and marketing will be allowable under this M&O contract. The M&O Contractor will share royalties collected on ACT IP with inventors in accordance with paragraph (h) of the Technology Transfer Mission clause of this M&O contract.
 - g. For ACT projects in which the terms of the Agreement provide that the Government reserves the right to use generated data after the particular project expires, the M&O Contractor must provide to OSTI computer software produced under the Agreement in both source and executable object code format.

- h. Where terms and conditions governing Data and Subject Inventions under this Contract are inconsistent with the terms of the ACT Class Waiver, the ACT Class Waiver will control.

9. Contractor Liability and Indemnification.

a. General Indemnity.

- (i) The M&O Contractor agrees to indemnify and hold harmless the Government, the Department, and persons acting on their behalf from all liability, including costs and expenses incurred, to any person, including the ACT participants, for injury to or death of persons or other living things or injury to or destruction of property arising out of the performance of an ACT transaction by the Government, the Department, the M&O Contractor, or persons acting on their behalf, or arising out of the use of the services performed, materials supplied, or information given hereunder by any person including the M&O Contractor, and not directly resulting from the fault or negligence of the Government, the Department, or persons (other than the M&O Contractor) acting on their behalf.
- (ii) Subject to Contracting Officer approval, the General Indemnity set forth in (i) above may be modified or waived where: (1) ACT participants are not providing material or equipment to the M&O Contractor to be used in the performance of the Statement of Work under the ACT transaction; and (2) ACT participants are not sending their employees to the M&O facilities as part of the Statement of Work; and (3) the specific activities performed under the ACT transaction are normally performed by the DOE M&O Contractor under the DOE contract.
- (iii) Notwithstanding the provisions in a (i) and a (ii) above, the M&O Contractor shall indemnify and hold harmless the Government, the Department, and persons acting on their behalf for loss, damage, or destruction of Government property resulting from the fault or negligence of the M&O Contractor. Such indemnification shall be subject to a liability limit of \$2,000,000 (two million dollars) per year, or such greater liability limit approved by the cognizant DOE/NNSA Contracting Officer under the DOE contract. Above the applicable liability limit, the M&O Contractor's responsibility to the Government for such loss, damage or destruction, shall be as set forth in the "Property" clause of this contract.

- b. Intellectual Property Indemnity. The M&O Contractor shall indemnify the Government, its agents, and employees against liability, including costs,

for infringement of any United States patent, copyright, or other intellectual property arising out of any acts required or directed to be performed under the Statement of Work under an ACT transaction to the extent such acts are not already performed at the M&O contract facilities. Such indemnity shall not apply to a claimed infringement that is settled without the consent of the M&O Contractor unless required by a court of competent jurisdiction.

c. Product Liability Indemnity.

Except for any liability resulting from any negligent acts or omissions of the Government, the M&O Contractor agrees to indemnify the Government for all damages, costs, and expenses, including attorney's fees, arising from personal injury or property damage occurring as a result of the making, using, or selling of a product, process, or service by or on behalf of the ACT participants or the M&O Contractor, their assignees, or licensees, which was derived from the work performed under ACT transactions. With respect to this H-clause, neither the Government nor the M&O Contractor shall be considered assignees or licensees as a result of reserved Government rights in ACT IP. The indemnity set forth in this paragraph shall apply only if the M&O Contractor shall have been informed as soon and as completely as practical by the Government of the action alleging such claim and shall have been given an opportunity, to the maximum extent afforded by applicable laws, rules, or regulations, to participate in and control its defense, and the Government shall have provided all reasonably available information and reasonable assistance requested by the M&O Contractor. No settlement for which the M&O Contractor would be responsible shall be made without the M&O Contractor's consent, unless required by final decree of a court of competent jurisdiction.

- (i) Where the M&O Contractor assigns the responsibility for indemnifying the Government under subparagraph c(i) above to other ACT participants, the M&O Contractor agrees to seek such indemnification from the other ACT participants.

d. Claims and Liabilities. Claims and liabilities resulting from the M&O Contractor's performance of work under an ACT transaction authorized pursuant to this H-clause shall not be subject to the M&O contract clause entitled "Insurance - Litigation and Claims." In no event shall the M&O Contractor be reimbursed under the M&O contract for liabilities (and expenses incidental to such liabilities, including litigation costs, counsel fees, and judgment and settlements) incurred as a result of third party claims related to the M&O Contractor's performance under this H-clause.

- e. Government Obligations. The M&O Contractor shall not include any guarantee or requirement that will obligate the Government to pay or incur any costs or create any liability on behalf of the Government in any ACT agreement or commitment the M&O Contractor executes under authority of this H-clause. The M&O Contractor agrees if the Contractor does include such a guarantee or requirement, it will have no effect on the Government, such that, the M&O Contractor will be responsible for any costs or liability due to such a guarantee or requirement.
 - f. Insurance. Any cost of insurance to cover risks of the M&O Contractor associated with ACT agreements is unallowable under this contract.
- 10. ACT Records. All records associated with the M&O Contractor's activities conducted under the authority of this H-clause, with the exception of information required under paragraphs 3e, 4.b.i, and 13 shall be treated as M&O Contractor-owned records under the provisions of the Access to and Ownership of Records clause of this M&O contract. The Government or its designees shall use such records in accordance with applicable Federal laws (including the Privacy Act), as appropriate.
 - 11. Termination. The Government or the M&O Contractor may terminate ACT authority under this contract by providing written notification of termination to the other party (Contracting Officer or the M&O Contractor) as appropriate, no less than 60 days prior to the requested termination date. In such cases, the M&O Contractor shall provide DOE a comprehensive list of active ACT projects. DOE anticipates work commitments under these agreements will be completed regardless of termination. All costs associated with early termination of any ACT agreements prior to the completion shall be the responsibility of the M&O Contractor.
 - 12. Successor M&O Contractor. To minimize the potential for negative Government programmatic impact and to facilitate seamless transition of work to a successor M&O Contractor, ACT agreement(s) executed under this H-clause and any contractual instruments associated therewith may be novated to the successor M&O Contractor with the mutual consent of the M&O Contractor, the successor M&O Contractor, and the parties to the affected ACT agreement(s). If the ACT agreement(s) cannot be novated, then the M&O Contractor as a private sponsor shall be permitted to enter into a Non-Federal SPP agreement with the successor M&O Contractor that will enable completion of the statement of work. Such agreements shall be entered into pursuant to DOE SPP policies. DOE shall make good faith efforts to incorporate the terms of the applicable ACT agreement.
 - 13. Minimum Reporting requirements. The M&O Contractor shall maintain records of its activities related to ACT in a manner and to the extent satisfactory to DOE and specifically including, but not limited to the number of ACT agreements, the amount of funds reimbursed to DOE for work under ACT and aggregate funding

received beyond costs in the performance of ACT, the number of third party entities engaged through ACT that had not previously sponsored projects under the M&O contract and the number that had not previously sponsored projects under any DOE/NNSA M&O contract, the amount of funds reimbursed to DOE by newly engaged entities, the number of parties and types of entities engaged in each individual ACT agreement, and the number of invention disclosures, licenses and start-ups arising from ACT. The M&O Contractor shall establish performance metric(s) to measure the time required to negotiate ACT agreements in a manner consistent with the time required to negotiate CRADAs and SPPs. The M&O Contractor shall obtain from each entity engaged in ACT the entity's reason(s) for selecting ACT for performance of work under the M&O contract. Also, the M&O Contractor shall report the above identified data annually to the DOE Contracting Officer and in such a format which will serve to adequately inform DOE of the Contractor's activities under ACT while protecting any data not subject to disclosure under this M&O contract. Such records shall be made available in accordance with the clauses of this M&O contract pertaining to inspection, audit and examination of records.

14. FedACT Pilot. Under this paragraph the DOE is authorizing a 3-year pilot program for Federally funded ACT (FedACT). FedACT contracts are ACT agreements between the M&O Contractor and a non-Federal third party partner, where a portion of the project funding originates from a Federal agency (i.e., Federal appropriations). In most cases, the industry partner's original source of funds will have been as a result of a contract or financial assistance award from the Federal agency. Any agreement that includes Federal funds must be performed under the FedACT pilot. Federal funds used to support a FedACT project must solely be used to carry out the purposes of the Federal award. FedACT does not include agreements directly funded from another Federal agency. DOE and the M&O Contractor recognize that FedACT is a new mechanism and subject to modifications as more data and experience are realized. During the FedACT pilot either party may suggest changes to the program based on the experiences gained. Furthermore, the M&O Contractor recognizes that the Department may decide to end the FedACT pilot at any time and that termination of the FedACT pilot by the Department will be in accordance with this paragraph. During the FedACT pilot the M&O Contractor is permitted to negotiate and execute such agreements, subject to DOE approval, as described in paragraph 4 above and as set forth herein. The following additional requirements apply:
 - a. The M&O Contractor agrees, prior to executing such agreements, to submit to DOE for approval a modified ACT procedure for implementing the execution of FedACT.
 - b. If the M&O Contractor is charging the third party additional compensation beyond the full costs of the work performed under the M&O contract, the ACT agreement will not be approved unless DOE or the M&O Contractor

obtains a written certification from the Federal agency funding the third party that such additional compensation using Federal funds is permissible under the Federal award. In order to maximize the transparency of the transaction to the funding agency, the written certification shall be in the form of a standard template approved by DOE. Such template shall include at a minimum:

- i. The amount of and explanation for the cost difference between performing the work as an ACT agreement as compared with an SPP or CRADA; and
 - ii. A detailed description of the risk and/or consideration offered the participant by the M&O Contractor in exchange for charging beyond full cost recovery. This information shall also be included in the statement of consideration contained in the ACT proposal package submitted to the Contracting Officer.
- c. The M&O Contractor may not agree to any terms and conditions of the Federal award that conflict with this M&O contract.
- d. Notwithstanding any other provision in this H-clause, rights to ACT inventions and copyrights arising from work conducted under this paragraph made by the M&O Contractor shall be governed by the terms of the Patent and Data Rights clauses of this M&O Contract, as well as any applicable PFTT clause. The ACT Class Waiver does not apply to any ACT agreement funded with Federal funds.
- e. DOE's approval to negotiate and execute a FedACT agreement under this paragraph is for the sole purpose of evaluating and considering the M&O Contractor and DOE's processes and procedures for implementing such FedACT agreements and does not in any way provide the Contractor authority beyond the scope of this paragraph or imply that permanent authority shall be forthcoming.
- f. Advance payment requirements in Section 5 equally apply to FedACT agreements.
- g. All work must be performed at full costs which includes a Federal Administrative Charge (FAC).
- h. Termination. The FedACT Pilot implemented by this H-clause will terminate three years from the date AL 2018-06 is issued, unless renewed by the Contracting Officer. The Government may provide the M&O Contractor with written notice to terminate the M&O Contractor's authority to conduct FedACT work under this H-clause at any time. If the Contractor's authority to conduct FedACT work under this H-clause has

expired or been terminated, the M&O Contractor will be permitted, subject to any other provisions of this H-clause, to complete any FedACT work that had been approved by DOE prior to this H- clause being terminated by the Government.

PART II

SECTION I

CONTRACT CLAUSES

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PART
II

SECTION I - CONTRACT
CLAUSES

I.1 - FAR 52.202-1 DEFINITIONS (NOV 2013) MODIFIED BY DEAR 952.202-1 (FEB 2011)

When a solicitation provision or contract clause uses a word or term that is defined in the Federal Acquisition Regulation (FAR), the word or term has the same meaning as the definition in FAR 2.101 in effect at the time the solicitation was issued, unless --

- (a) The solicitation, or amended solicitation, provides a different definition;
- (b) The contracting parties agree to a different definition;
- (c) When a solicitation provision or contract clause uses a word or term that is defined in the Department of Energy Acquisition Regulation (DEAR) (48 CFR chapter 9), the word or term has the same meaning as the definition in 48 CFR 902.101 or the definition in the part, subpart, or section of 48 CFR chapter 9 where the provision or clause is prescribed in effect at the time the solicitation was issued, unless an exception in (a) applies.
- (d) The part, subpart, or section of the FAR where the provision or clause is prescribed provides a different meaning; or
- (e) The word or term is defined in FAR Part 31, for use in the cost principles and procedures.

I.2 - FAR 52.203-3 GRATUITIES (APR 1984)

- (a) The right of the Contractor to proceed may be terminated by written notice if, after notice and hearing, the agency head or a designee determines that the Contractor, its agent, or another representative:
 - (1) Offered or gave a gratuity (e.g., an entertainment or gift) to an officer, official, or employee of the Government; and
 - (2) Intended, by the gratuity, to obtain a contract or favorable treatment under a contract.

- (b) The facts supporting this determination may be reviewed by any court having lawful jurisdiction.
- (c) If this contract is terminated under paragraph (a) of this clause, the Government is entitled:
 - (1) To pursue the same remedies as in a breach of the contract; and
 - (2) In addition to any other damages provided by law, to exemplary damages of not less than 3 nor more than 10 times the cost incurred by the Contractor in giving gratuities to the person concerned, as determined by the agency head or a designee. (This paragraph (c)(2) is applicable only if this contract uses money appropriated to the Department of Defense.)
- (d) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this contract.

I.3 - FAR 52.203-5 COVENANT AGAINST CONTINGENT FEES (MAY 2014)

- (a) The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this contract upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this contract without liability or to deduct from the contract price or consideration, or otherwise recover, the full amount of the contingent fee.
- (b) "Bona fide agency," as used in this clause, means an established commercial or selling agency, maintained by a contractor for the purpose of securing business, that neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds itself out as being able to obtain any Government contract or contracts through improper influence.

"Bona fide employee," as used in this clause, means a person, employed by a contractor and subject to the contractor's supervision and control as to time, place, and manner of performance, who neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds out as being able to obtain any Government contract or contracts through improper influence.

"Contingent fee," as used in this clause, means any commission, percentage, brokerage, or other fee that is contingent upon the success that a person or concern has in securing a Government contract.

“Improper influence,” as used in this clause, means any influence that induces or tends to induce a Government employee or officer to give consideration or to act regarding a Government contract on any basis other than the merits of the matter.

I.4 - FAR 52.203-6 RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT (SEP 2006)

- (a) Except as provided in (b) of this clause, the Contractor shall not enter into any agreement with an actual or prospective subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such subcontractors directly to the Government of any item or process (including computer software) made or furnished by the subcontractor under this contract or under any follow-on production contract.
- (b) The prohibition in (a) of this clause does not preclude the Contractor from asserting rights that are otherwise authorized by law or regulation.
- (c) The Contractor agrees to incorporate the substance of this clause, including this paragraph (c), in all subcontracts under this contract which exceed the simplified acquisition threshold.

I.5 - FAR 52.203-7 ANTI-KICKBACK PROCEDURES (MAY 2014)

- (a) Definitions.

“Kickback,” as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided to any prime Contractor, prime Contractor employee, subcontractor, or subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

“Person,” as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

“Prime contract,” as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

“Prime Contractor” as used in this clause, means a person who has entered into a prime contract with the United States.

“Prime Contractor employee,” as used in this clause, means any officer, partner, employee, or agent of a prime Contractor

“Subcontract,” as used in this clause, means a contract or contractual action entered into by a prime Contractor or subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

“Subcontractor,” as used in this clause,

- (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and
- (2) includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier subcontractor.

“Subcontractor employee,” as used in this clause, means any officer, partner, employee, or agent of a subcontractor.

- (b) 41 U.S.C. chapter 87, Kickbacks, prohibits any person from --
 - (1) Providing or attempting to provide or offering to provide any kickback;
 - (2) Soliciting, accepting, or attempting to accept any kickback; or
 - (3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a subcontractor to a prime Contractor or higher tier subcontractor.
- (c)
 - (1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.
 - (2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Attorney General.
 - (3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.
 - (4) The Contracting Officer may

- (i) offset the amount of the kickback against any monies owed by the United States under the prime contract and/or
 - (ii) direct that the Prime Contractor withhold from sums owed a subcontractor under the prime contract the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.
- (5) The Contractor agrees to incorporate the substance of this clause, including paragraph (c)(5) but excepting paragraph (c)(1), in all subcontracts under this contract which exceed \$150,000.

I.6 - FAR 52.203-8 CANCELLATION, RESCISSION, AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY (MAY 2014)

- (a) If the Government receives information that a contractor or a person has violated 41 U.S.C. 2102-2104, Restrictions on Obtaining and Disclosing Certain Information, the Government may --
- (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
 - (2) Rescind the contract with respect to which --
 - (i) The Contractor or someone acting for the Contractor has been convicted for an offense where the conduct violates 41 U.S.C. 2102 for the purpose of either --
 - (A) Exchanging the information covered by such subsections for anything of value; or
 - (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract; or
 - (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct punishable under 41 U.S.C. 2105(a).

- (b) If the Government rescinds the contract under paragraph (a) of this clause, the Government is entitled to recover, in addition to any penalty prescribed by law, the amount expended under the contract.
- (c) The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this contract.

I.7 - FAR 52.203-10 PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER
ACTIVITY (MAY 2014)

- (a) The Government, at its election, may reduce the price of a fixed-price type contract and the total cost and fee under a cost-type contract by the amount of profit or fee determined as set forth in paragraph (b) of this clause if the head of the contracting activity or designee determines that there was a violation of 41 U.S.C. 2102 or 2103, as implemented in section 3.104 of the Federal Acquisition Regulation.
- (b) The price or fee reduction referred to in paragraph (a) of this clause shall be –
 - (1) For cost-plus-fixed-fee contracts, the amount of the fee specified in the contract at the time of award;
 - (2) For cost-plus-incentive-fee contracts, the target fee specified in the contract at the time of award, notwithstanding any minimum fee or “fee floor” specified in the contract;
 - (3) For cost-plus-award-fee contracts --
 - (i) The base fee established in the contract at the time of contract award;
 - (ii) If no base fee is specified in the contract, 30 percent of the amount of each award fee otherwise payable to the Contractor for each award fee evaluation period or at each award fee determination point.
 - (4) For fixed-price-incentive contracts, the Government may --
 - (i) Reduce the contract target price and contract target profit both by an amount equal to the initial target profit specified in the contract at the time of contract award; or
 - (ii) If an immediate adjustment to the contract target price and contract target profit would have a significant adverse impact on the

incentive price revision relationship under the contract, or adversely affect the contract financing provisions, the Contracting Officer may defer such adjustment until establishment of the total final price of the contract. The total final price established in accordance with the incentive price revision provisions of the contract shall be reduced by an amount equal to the initial target profit specified in the contract at the time of contract award and such reduced price shall be the total final contract price.

- (5) For firm-fixed-price contracts, by 10 percent of the initial contract price or a profit amount determined by the Contracting Officer from records or documents in existence prior to the date of the contract award.
- (c) The Government may, at its election, reduce a prime contractor's price or fee in accordance with the procedures of paragraph (b) of this clause for violations of the statute by its subcontractors by an amount not to exceed the amount of profit or fee reflected in the subcontract at the time the subcontract was first definitively priced.
- (d) In addition to the remedies in paragraphs (a) and (c) of this clause, the Government may terminate this contract for default. The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law or under this contract.

**I.8 - FAR 52.203-12 LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN
FEDERAL TRANSACTIONS (OCT 2010)**

(a) *Definitions.*

As used in this clause—

Agency means executive agency as defined in Federal Acquisition Regulation (FAR) 2.101.

Covered Federal action means any of the following actions:

- (1) Awarding any Federal contract.
- (2) Making any Federal grant.
- (3) Making any Federal loan.
- (4) Entering into any cooperative agreement.

- (5) Extending, continuing, renewing, amending, or modifying any Federal contract, grant, loan, or cooperative agreement.

Indian tribe and tribal organization have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450b) and include Alaskan Natives.

Influencing or attempting to influence means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

Local government means a unit of government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

Officer or employee of an agency includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.
- (3) A special Government employee, as defined in section 202, Title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.

Person means an individual, corporation, company, association, authority, firm, partnership, society, State, and local government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.

Reasonable compensation means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government.

Reasonable payment means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

Recipient includes the Contractor and all subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization eligible to receive Federal contracts, grants, cooperative agreements, or loans from an agency, but only with respect to expenditures by such tribe or organization that are made for purposes specified in paragraph (b) of this clause and are permitted by other Federal law.

Regularly employed means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

State means a State of the United States, the District of Columbia, or an outlying area of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having governmental duties and powers.

- (b) *Prohibition.* 31 U.S.C. 1352 prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal actions. In accordance with 31 U.S.C. 1352 the Contractor shall not use appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the award of this contract the extension, continuation, renewal, amendment, or modification of this contract.
 - (1) The term *appropriated funds* does not include profit or fee from a covered Federal action.

- (2) To the extent the Contractor can demonstrate that the Contractor has sufficient monies, other than Federal appropriated funds, the Government will assume that these other monies were spent for any influencing activities that would be unallowable if paid for with Federal appropriated funds.
- (c) *Exceptions.* The prohibition in paragraph (b) of this clause does not apply under the following conditions:
 - (1) *Agency and legislative liaison by Contractor employees.*
 - (i) Payment of reasonable compensation made to an officer or employee of the Contractor if the payment is for agency and legislative liaison activities not directly related to this contract. For purposes of this paragraph, providing any information specifically requested by an agency or Congress is permitted at any time.
 - (ii) Participating with an agency in discussions that are not related to a specific solicitation for any covered Federal action, but that concern—
 - (A) The qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities; or
 - (B) The application or adaptation of the person's products or services for an agency's use.
 - (iii) Providing prior to formal solicitation of any covered Federal action any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;
 - (iv) Participating in technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
 - (v) Making capability presentations prior to formal solicitation of any covered Federal action by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
 - (2) *Professional and technical services.*
 - (i) A payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or

modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

- (ii) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
 - (iii) As used in paragraph (c)(2) of this clause, “professional and technical services” are limited to advice and analysis directly applying any professional or technical discipline (for examples, see FAR 3.803(a)(2)(iii)).
 - (iv) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (3) Only those communications and services expressly authorized by paragraphs (c)(1) and (2) of this clause are permitted.
- (d) *Disclosure.*
- (1) If the Contractor did not submit OMB Standard Form LLL, Disclosure of Lobbying Activities, with its offer, but registrants under the Lobbying Disclosure Act of 1995 have subsequently made a lobbying contact on behalf of the Contractor with respect to this contract, the Contractor shall complete and submit OMB Standard Form LLL to provide the name of the lobbying registrants, including the individuals performing the services.
 - (2) If the Contractor did submit OMB Standard Form LLL disclosure pursuant to paragraph (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, and a change occurs that affects Block 10 of the OMB Standard Form LLL (name and address of lobbying registrant or

individuals performing services), the Contractor shall, at the end of the calendar quarter in which the change occurs, submit to the Contracting Officer within 30 days an updated disclosure using OMB Standard Form LLL.

(e) *Penalties.*

- (1) Any person who makes an expenditure prohibited under paragraph (b) of this clause or who fails to file or amend the disclosure to be filed or amended by paragraph (d) of this clause shall be subject to civil penalties as provided for by 31 U.S.C. 1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
- (2) Contractors may rely without liability on the representation made by their subcontractors in the certification and disclosure form.

(f) *Cost allowability.* Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

(g) *Subcontracts.*

- (1) The Contractor shall obtain a declaration, including the certification and disclosure in paragraphs (c) and (d) of the provision at FAR 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions, from each person requesting or receiving a subcontract exceeding \$150,000 under this contract. The Contractor or subcontractor that awards the subcontract shall retain the declaration.
- (2) A copy of each subcontractor disclosure form (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall, at the end of the calendar quarter in which the disclosure form is submitted by the subcontractor, submit to the Contracting Officer within 30 days a copy of all disclosures. Each subcontractor certification shall be retained in the subcontract file of the awarding Contractor.
- (3) The Contractor shall include the substance of this clause, including this paragraph (g), in any subcontract exceeding \$150,000.

I.9 - FAR 52.203-13 CONTRACTOR CODE OF BUSINESS ETHICS AND CONDUCT
(OCT 2015) (PREV. I.120)

(a) *Definition.* As used in this clause--

“Agent” means any individual, including a director, an officer, an employee, or an independent Contractor, authorized to act on behalf of the organization.

“Full cooperation”—

- (1) Means disclosure to the Government of the information sufficient for law enforcement to identify the nature and extent of the offense and the individuals responsible for the conduct. It includes providing timely and complete response to Government auditors’ and investigators’ request for documents and access to employees with information;
- (2) Does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not require—
 - (i) A Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine; or
 - (ii) Any officer, director, owner, or employee of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; and
- (3) Does not restrict a Contractor from—
 - (i) Conducting an internal investigation; or
 - (ii) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.

“Principal” means an officer, director, owner, partner, or a person having primary management or supervisory responsibilities within a business entity (e.g., general manager; plant manager; head of a division or business segment; and similar positions).

“Subcontract” means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

“Subcontractor” means any supplier, distributor, vendor, or firm that furnished supplies or services to or for a prime contractor or another subcontractor.

“United States” means the 50 States, the District of Columbia, and outlying areas.

- (b) Code of business ethics and conduct.
 - (1) Within 30 days after contract award, unless the Contracting Officer establishes a longer time period, the Contractor shall—
 - (i) Have a written code of business ethics and conduct;
 - (ii) Make a copy of the code available to each employee engaged in performance of the contract.
 - (2) The Contractor shall—
 - (i) Exercise due diligence to prevent and detect criminal conduct; and
 - (ii) Otherwise promote an organizational culture that encourages ethical conduct and a commitment to compliance with the law.
 - (3)
 - (i) The Contractor shall timely disclose, in writing, to the agency Office of the Inspector General (OIG), with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of this contract or any subcontract thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed—
 - (A) A violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 of the United States Code; or
 - (B) A violation of the civil False Claims Act (31 U.S.C. 3729-3733).
 - (ii) The Government, to the extent permitted by law and regulation, will safeguard and treat information obtained pursuant to the Contractor's disclosure as confidential where the information has been marked "confidential" or "proprietary" by the company. To the extent permitted by the law and regulation, such information will not be released by the Government to the public pursuant to a Freedom of Information Act request, 5 U.S.C. Section 552, without prior notification to the Contractor. The Government may transfer documents provided by the Contractor to any department or agency within the Executive Branch if the information relates to matters within the organization's jurisdiction.

- (iii) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the Contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract.
- (c) *Business ethics awareness and compliance program and internal control system.*
This paragraph (c) does not apply if the Contractor has represented itself as a small business concern pursuant to the award of this contract or if this contract is for the acquisition of a commercial item as defined at FAR 2.101. The Contractor shall establish the following within 90 days after contract award, unless the Contracting Officer establishes a longer time period:
 - (1) An ongoing business ethics awareness and compliance program.
 - (i) This program shall include reasonable steps to communicate periodically and in a practical manner the Contractor's standards and procedures and other aspects of the Contractor's business ethics awareness and compliance program and internal control system, by conducting effective training programs and otherwise disseminating information appropriate to an individual's respective roles and responsibilities.
 - (ii) The training conducted under this program shall be provided to the Contractor's principals and employees, and as appropriate, the Contractor's agents and subcontractors.
 - (2) An internal control system.
 - (i) The Contractor's internal control system shall—
 - (A) Establish standards and procedures to facilitate timely discovery of improper conduct in connection with Government contracts; and
 - (B) Ensure corrective measures are promptly instituted and carried out.
 - (ii) At a minimum, the Contractor's internal control system shall provide for the following:
 - (A) Assignment of responsibility at a sufficiently high level and adequate resources to ensure effectiveness of the business ethics awareness and compliance program and internal control system.

- (B) Reasonable efforts not to include an individual as a principal, whom due diligence would have exposed as having engaged in conduct that is in conflict with the Contractor's code of business ethics and conduct.
- (C) Periodic reviews of company business practices, procedures, policies, and internal controls for compliance with the Contractor's code of business ethics and conduct and special requirements of Government contracting, including—
 - (1) Monitoring and auditing to detect criminal conduct;
 - (2) Periodic evaluation of the effectiveness of the business ethics awareness and compliance program and internal control system, especially if criminal conduct has been detected; and
 - (3) Periodic assessment of the risk of criminal conduct, with appropriate steps to design, implement, or modify the business ethics awareness and compliance program and the internal control system as necessary to reduce the risk of criminal conduct identified through this process.
- (D) An internal reporting mechanism, such as a hotline, which allows for anonymity or confidentiality, by which employees may report suspected instances of improper conduct, and instructions that encourage employees to make such reports.
- (E) Disciplinary action for improper conduct or for failing to take reasonable steps to prevent or detect improper conduct.
- (F) Timely disclosure, in writing, to the agency OIG, with a copy to the Contracting Officer, whenever, in connection with the award, performance, or closeout of any Government contract performed by the Contractor or a subcontractor thereunder, the Contractor has credible evidence that a principal, employee, agent, or subcontractor of the Contractor has committed a violation of Federal criminal law involving fraud, conflict of interest, bribery, or gratuity violations found in Title 18 U.S.C. or a violation of the civil False Claims Act (31 U.S.C. 3729-3733).

- (1) If a violation relates to more than one Government contract, the Contractor may make the disclosure to the agency OIG and Contracting Officer responsible for the largest dollar value contract impacted by the violation.
 - (2) If the violation relates to an order against a Governmentwide acquisition contract, a multi-agency contract, a multiple-award schedule contract such as the Federal Supply Schedule, or any other procurement instrument intended for use by multiple agencies, the contractor shall notify the OIG of the ordering agency and the IG of the agency responsible for the basic contract, and the respective agencies' contracting officers.
 - (3) The disclosure requirement for an individual contract continues until at least 3 years after final payment on the contract.
 - (4) The Government will safeguard such disclosures in accordance with paragraph (b)(3)(ii) of this clause.
 - (G) Full cooperation with any Government agencies responsible for audits, investigations, or corrective actions.
- (d) Subcontracts.
- (1) The Contractor shall include the substance of this clause, including this paragraph (d), in subcontracts that have a value in excess of \$5.5 million and a performance period of more than 120 days.
 - (2) In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.

I.10 - FAR 52.203-14 DISPLAY OF HOTLINE POSTER(S) (OCT 2015) MODIFIED BY DEAR 903.1004(B)(2)(II) (PREV. I.121)

(a) Definition.

"United States," as used in this clause, means the 50 States, the District of Columbia, and outlying areas.

- (b) Display of fraud hotline poster(s). Except as provided in paragraph (c)-
- (1) During contract performance in the United States, the Contractor shall prominently display in common work areas within business segments performing work under this contract and at contract work sites-
 - (i) Any agency fraud hotline poster or Department of Homeland Security (DHS) fraud hotline poster identified in paragraph (b)(3) of this clause; and
 - (ii) Any DHS fraud hotline poster subsequently identified by the Contracting Officer.
 - (2) Additionally, if the Contractor maintains a company website as a method of providing information to employees, the Contractor shall display an electronic version of the poster(s) at the website.
 - (3) Any required posters may be obtained as follows:
 - (i) DOE IG Hotline Poster; and

Poster(s)	Obtain from
<u>N/A</u>	<u></u>
<u></u>	<u></u>
 - (ii) Appropriate agency name(s) and/or title of applicable Department of Homeland Security fraud hotline poster); and
 - (iii) The website(s) or other contact information for obtaining the poster(s) <http://ig.energy.gov/hotline.htm>.
- (c) If the Contractor has implemented a business ethics and conduct awareness program, including a reporting mechanism, such as a hotline poster, then the Contractor need not display any agency fraud hotline posters as required in paragraph (b) of this clause, other than any required DHS posters.
- (d) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (d), in all subcontracts that exceed \$5.5 million, except when the subcontract-
- (1) Is for the acquisition of a commercial item; or
 - (2) Is performed entirely outside the United States.

I.11 - FAR 52.203-15 WHISTLEBLOWER PROTECTIONS UNDER THE AMERICAN RECOVERY AND REINVESTMENT ACT OF 2009 (JUN 2010) (PREV. I.135)

- (a) The Contractor shall post notice of employees rights and remedies for whistleblower protections provided under section 1553 of the American Recovery and Reinvestment Act of 2009 (Pub. L. 111-5) (Recovery Act).
- (b) The Contractor shall include the substance of this clause, including this paragraph (b), in all subcontracts that are funded in whole or in part with Recovery Act funds.

I.12 - FAR 52.203-17 CONTRACTOR EMPLOYEE WHISTLEBLOWER RIGHTS AND REQUIREMENT TO INFORM EMPLOYEES OF WHISTLEBLOWER RIGHTS (APR 2014) (PREV. I.151)

- (a) This contract and employees working on this contract will be subject to the whistleblower rights and remedies in the pilot program on Contractor employee whistleblower protections established at 41 U.S.C. 4712 by section 828 of the National Defense Authorization Act for Fiscal Year 2013 (Pub. L. 112-239) and FAR 3.908.
- (b) The Contractor shall inform its employees in writing, in the predominant language of the workforce, of employee whistleblower rights and protections under 41 U.S.C. 4712, as described in section 3.908 of the Federal Acquisition Regulation.
- (c) The Contractor shall insert the substance of this clause, including this paragraph (c), in all subcontracts over the simplified acquisition threshold.

I.13 - FAR 52.203-19 PROHIBITION ON REQUIRING CERTAIN INTERNAL CONFIDENTIALITY AGREEMENTS OR STATEMENTS (JAN 2017) (PREV. I.155)

- (a) Definitions. As used in this clause—

Internal confidentiality agreement or statement means a confidentiality agreement or any other written statement that the contractor requires any of its employees or subcontractors to sign regarding nondisclosure of contractor information, except that it does not include confidentiality agreements arising out of civil litigation or confidentiality agreements that contractor employees or subcontractors sign at the behest of a Federal agency.

Subcontract means any contract as defined in subpart 2.1 entered into by a subcontractor to furnish supplies or services for performance of a prime contract

or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.

Subcontractor means any supplier, distributor, vendor, or firm (including a consultant) that furnishes supplies or services to or for a prime contractor or another subcontractor.

- (b) The Contractor shall not require its employees or subcontractors to sign or comply with internal confidentiality agreements or statements prohibiting or otherwise restricting such employees or subcontractors from lawfully reporting waste, fraud, or abuse related to the performance of a Government contract to a designated investigative or law enforcement representative of a Federal department or agency authorized to receive such information (e.g., agency Office of the Inspector General).
- (c) The Contractor shall notify current employees and subcontractors that prohibitions and restrictions of any preexisting internal confidentiality agreements or statements covered by this clause, to the extent that such prohibitions and restrictions are inconsistent with the prohibitions of this clause, are no longer in effect.
- (d) The prohibition in paragraph (b) of this clause does not contravene requirements applicable to Standard Form 312 (Classified Information Nondisclosure Agreement), Form 4414 (Sensitive Compartmented Information Nondisclosure Agreement), or any other form issued by a Federal department or agency governing the nondisclosure of classified information.
- (e) In accordance with section 743 of Division E, Title VII, of the Consolidated and Further Continuing Appropriations Act, 2015, (Pub. L. 113-235), and its successor provisions in subsequent appropriations acts (and as extended in continuing resolutions) use of funds appropriated (or otherwise made available) is prohibited, if the Government determines that the Contractor is not in compliance with the provisions of this clause.
- (f) The Contractor shall include the substance of this clause, including this paragraph (f), in subcontracts under such contracts.

I.14 - FAR 52.204-4 PRINTED OR COPIED DOUBLE-SIDED ON POSTCONSUMER FIBER CONTENT PAPER (MAY 2011) (PREV. I.9)

- (a) *Definitions.* As used in this clause—

Postconsumer fiber means—

- (1) Paper, paperboard, and fibrous materials from retail stores, office buildings, homes, and so forth, after they have passed through their end - usage as a consumer item, including: used corrugated boxes; old newspapers; old magazines; mixed waste paper; tabulating cards; and used cordage; or
 - (2) All paper, paperboard, and fibrous materials that enter and are collected from municipal solid waste; but not
 - (3) Fiber derived from printers' over-runs, converters' scrap, and over-issue publications.
- (b) The Contractor is required to submit paper documents, such as offers, letters, or reports that are printed or copied double-sided on paper containing at least 30 percent postconsumer fiber, whenever practicable, when not using electronic commerce methods to submit information or data to the Government.

I.15 - FAR 52.204-9 PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011) (PREV. 141)

- (a) The Contractor shall comply with agency personal identity verification procedures identified in the contract that implement Homeland Security Presidential Directive-12 (HSPD-12), Office of Management and Budget (OMB) guidance M-05-24 and Federal Information Processing Standards Publication (FIPS PUB) Number 201.
- (b) The Contractor shall account for all forms of Government-provided identification issued to the Contractor employees in connection with performance under this contract. The Contractor shall return such identification to the issuing agency at the earliest of any of the following, unless otherwise determined by the Government:
 - (1) When no longer needed for contract performance.
 - (2) Upon completion of the Contractor employee's employment.
 - (3) Upon contract completion or termination.
- (c) The Contracting Officer may delay final payment under a contract if the Contractor fails to comply with these requirements.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts when the subcontractor's employees are required to have routine physical access to a Federally-controlled facility and/or routine access to a Federally-controlled information system. It shall be the responsibility of the

prime Contractor to return such identification to the issuing agency in accordance with the terms set forth in paragraph (b) of this section, unless otherwise approved in writing by the Contracting Officer.

I.16 - FAR 52.204-10 REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2018) (PREV. I.147)

(a) Definitions. As used in this clause:

“Executive” means officers, managing partners, or any other employees in management positions.

“First-tier subcontract” means a subcontract awarded directly by the Contractor for the purpose of acquiring supplies or services (including construction) for performance of a prime contract. It does not include the Contractor’s supplier agreements with vendors, such as long-term arrangements for materials or supplies that benefit multiple contracts and/or the costs of which are normally applied to a Contractor’s general and administrative expenses or indirect costs.

“Month of award” means the month in which a contract is signed by the Contracting Officer or the month in which a first-tier subcontract is signed by the Contractor.

“Total compensation” means the cash and noncash dollar value earned by the executive during the Contractor’s preceding fiscal year and includes the following (for more information see 17 CFR 229.402(c)(2)):

- (1) Salary and bonus.
- (2) Awards of stock, stock options, and stock appreciation rights. Use the dollar amount recognized for financial statement reporting purposes with respect to the fiscal year in accordance with the Financial Accounting Standards Board’s Accounting Standards Codification (FASB ASC) 718, Compensation-Stock Compensation.
- (3) Earnings for services under non-equity incentive plans. This does not include group life, health, hospitalization or medical reimbursement plans that do not discriminate in favor of executives, and are available generally to all salaried employees.
- (4) Change in pension value. This is the change in present value of defined benefit and actuarial pension plans.
- (5) Above-market earnings on deferred compensation which is not tax-qualified.

- (6) Other compensation, if the aggregate value of all such other compensation (e.g., severance, termination payments, value of life insurance paid on behalf of the employee, perquisites or property) for the executive exceeds \$10,000.
- (b) Section 2(d)(2) of the Federal Funding Accountability and Transparency Act of 2006 (Pub. L. 109-282), as amended by section 6202 of the Government Funding Transparency Act of 2008 (Pub. L. 110-252), requires the Contractor to report information on subcontract awards. The law requires all reported information be made public, therefore, the Contractor is responsible for notifying its subcontractors that the required information will be made public.
- (c) Nothing in this clause requires the disclosure of classified information
- (d)
 - (1) Executive compensation of the prime contractor. As a part of its annual registration requirement in the System for Award Management (SAM) (FAR provision 52.204-7), the Contractor shall report the names and total compensation of each of the five most highly compensated executives for its preceding completed fiscal year, if—
 - (i) In the Contractor's preceding fiscal year, the Contractor received—
 - (A) 80 percent or more of its annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (B) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (ii) The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, see the U.S. Security and Exchange Commission total compensation filings at <http://www.sec.gov/answers/execomp.htm>.)
 - (2) First-tier subcontract information. Unless otherwise directed by the contracting officer, or as provided in paragraph (g) of this clause, by the end of the month following the month of award of a first-tier subcontract with a value of \$30,000 or more, the Contractor shall report the following information at <http://www.fsrs.gov> for that first-tier subcontract. (The

Contractor shall follow the instructions at <http://www.fsrs.gov> to report the data.)

- (i) Unique entity identifier for the subcontractor receiving the award and for the subcontractor's parent company, if the subcontractor has a parent company.
 - (ii) Name of the subcontractor.
 - (iii) Amount of the subcontract award.
 - (iv) Date of the subcontract award.
 - (v) A description of the products or services (including construction) being provided under the subcontract, including the overall purpose and expected outcomes or results of the subcontract.
 - (vi) Subcontract number (the subcontract number assigned by the Contractor).
 - (vii) Subcontractor's physical address including street address, city, state, and country. Also include the nine-digit zip code and congressional district.
 - (viii) Subcontractor's primary performance location including street address, city, state, and country. Also include the nine-digit zip code and congressional district.
 - (ix) The prime contract number, and order number if applicable.
 - (x) Awarding agency name and code.
 - (xi) Funding agency name and code.
 - (xii) Government contracting office code.
 - (xiii) Treasury account symbol (TAS) as reported in FPDS.
 - (xiv) The applicable North American Industry Classification System code (NAICS).
- (3) Executive compensation of the first-tier subcontractor. Unless otherwise directed by the Contracting Officer, by the end of the month following the month of award of a first-tier subcontract with a value of \$30,000 or more, and annually thereafter (calculated from the prime contract award date), the Contractor shall report the names and total compensation of each of

the five most highly compensated executives for that first-tier subcontractor for the first-tier subcontractor's preceding completed fiscal year at <http://www.fsrs.gov>, if—

- (i) In the subcontractor's preceding fiscal year, the subcontractor received—
 - (A) 80 percent or more of its annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
 - (B) \$25,000,000 or more in annual gross revenues from Federal contracts (and subcontracts), loans, grants (and subgrants), cooperative agreements, and other forms of Federal financial assistance; and
- (ii) The public does not have access to information about the compensation of the executives through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986. (To determine if the public has access to the compensation information, see the U.S. Security and Exchange Commission total compensation filings at <http://www.sec.gov/answers/execomp.htm>.)
- (e) The Contractor shall not split or break down first-tier subcontract awards to a value less than \$30,000 to avoid the reporting requirements in paragraph (d) of this clause.
- (f) The Contractor is required to report information on a first-tier subcontract covered by paragraph (d) when the subcontract is awarded. Continued reporting on the same subcontract is not required unless one of the reported data elements changes during the performance of the subcontract. The Contractor is not required to make further reports after the first-tier subcontract expires.
- (g)
 - (1) If the Contractor in the previous tax year had gross income, from all sources, under \$300,000, the Contractor is exempt from the requirement to report subcontractor awards.
 - (2) If a subcontractor in the previous tax year had gross income from all sources under \$300,000, the Contractor does not need to report awards for that subcontractor.
- (h) The FSRS database at <http://www.fsrs.gov> will be pre-populated with some information from SAM and the FPDS database. If FPDS information is incorrect,

the contractor should notify the contracting officer. If the SAM information is incorrect, the contractor is responsible for correcting this information.

I.17 - FAR 52.204-13 SYSTEM FOR AWARD MANAGEMENT MAINTENANCE
(OCT 2018) (PREV. I.9A)

(a) Definitions. As used in this clause—

“Electronic Funds Transfer (EFT) indicator” means a four-character suffix to the unique entity identifier. The suffix is assigned at the discretion of the commercial, nonprofit, or Government entity to establish additional System for Award Management (SAM) records for identifying alternative EFT accounts (see subpart 32.11) for the same entity.

“Registered in the System for Award Management (SAM)” means that—

- (1) The Contractor has entered all mandatory information, including the unique entity identifier and the EFT indicator (if applicable), the Commercial and Government Entity (CAGE) code, as well as data required by the Federal Funding Accountability and Transparency Act of 2006 (see subpart 4.14), into SAM;
- (2) The Contractor has completed the Core, Assertions, Representations and Certifications, and Points of Contact sections of the registration in SAM;
- (3) The Government has validated all mandatory data fields, to include validation of the Taxpayer Identification Number (TIN) with the Internal Revenue Service (IRS). The Contractor will be required to provide consent for TIN validation to the Government as a part of the SAM registration process; and
- (4) The Government has marked the record “Active”.

“System for Award Management (SAM)” means the primary Government repository for prospective Federal awardee and Federal awardee information and the centralized Government system for certain contracting, grants, and other assistance-related processes. It includes—

- (1) Data collected from prospective Federal awardees required for the conduct of business with the Government;
- (2) Prospective contractor-submitted annual representations and certifications in accordance with FAR subpart 4.12; and

- (3) Identification of those parties excluded from receiving Federal contracts, certain subcontracts, and certain types of Federal financial and non-financial assistance and benefits.

“Unique entity identifier” means a number or other identifier used to identify a specific commercial, nonprofit, or Government entity.

See <http://www.sam.gov> for the designated entity for establishing unique entity identifiers.

- (b) If the solicitation for this contract contained the provision 52.204-7 with its Alternate I, and the Contractor was unable to register prior to award, the Contractor shall be registered in SAM within 30 days after award or before three days prior to submission of the first invoice, whichever occurs first.
- (c) The Contractor shall maintain registration in SAM during contract performance and through final payment of any contract, basic agreement, basic ordering agreement, or blanket purchasing agreement. The Contractor is responsible for the currency, accuracy and completeness of the data within SAM, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in SAM after the initial registration, the Contractor is required to review and update on an annual basis, from the date of initial registration or subsequent updates, its information in SAM to ensure it is current, accurate and complete. Updating information in SAM does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(d)

(1)

- (i) If a Contractor has legally changed its business name or “doing business as” name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to—

- (A) Change the name in SAM;
- (B) Comply with the requirements of subpart 42.12 of the FAR; and
- (C) Agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor shall

provide with the notification sufficient documentation to support the legally changed name.

- (ii) If the Contractor fails to comply with the requirements of paragraph (d)(1)(i) of this clause, or fails to perform the agreement at paragraph (d)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the SAM information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.
- (2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in SAM record to reflect an assignee for the purpose of assignment of claims (see FAR subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the SAM. Information provided to the Contractor's SAM record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the EFT clause of this contract.
- (3) The Contractor shall ensure that the unique entity identifier is maintained with the entity designated at www.sam.gov for establishment of the unique entity identifier throughout the life of the contract. The Contractor shall communicate any change to the unique entity identifier to the Contracting Officer within 30 days after the change, so an appropriate modification can be issued to update the data on the contract. A change in the unique entity identifier does not necessarily require a novation be accomplished.
- (e) Contractors may obtain additional information on registration and annual confirmation requirements at <https://www.sam.gov>.

I.18 - FAR 52.204-21 BASIC SAFEGUARDING OF COVERED CONTRACTOR INFORMATION SYSTEMS (JUN 2016)

- (a) Definitions. As used in this clause—

"Covered contractor information system" means an information system that is owned or operated by a contractor that processes, stores, or transmits Federal contract information.

"Federal contract information" means information, not intended for public release, that is provided by or generated for the Government under a contract to develop

or deliver a product or service to the Government, but not including information provided by the Government to the public (such as on public websites) or simple transactional information, such as necessary to process payments.

“Information” means any communication or representation of knowledge such as facts, data, or opinions, in any medium or form, including textual, numerical, graphic, cartographic, narrative, or audiovisual (Committee on National Security Systems Instruction (CNSSI) 4009).

“Information system” means a discrete set of information resources organized for the collection, processing, maintenance, use, sharing, dissemination, or disposition of information (44 U.S.C. 3502).

“Safeguarding” means measures or controls that are prescribed to protect information systems.

- (b) Safeguarding requirements and procedures.
 - (1) The Contractor shall apply the following basic safeguarding requirements and procedures to protect covered contractor information systems. Requirements and procedures for basic safeguarding of covered contractor information systems shall include, at a minimum, the following security controls:
 - (i) Limit information system access to authorized users, processes acting on behalf of authorized users, or devices (including other information systems).
 - (ii) Limit information system access to the types of transactions and functions that authorized users are permitted to execute.
 - (iii) Verify and control/limit connections to and use of external information systems.
 - (iv) Control information posted or processed on publicly accessible information systems.
 - (v) Identify information system users, processes acting on behalf of users, or devices.
 - (vi) Authenticate (or verify) the identities of those users, processes, or devices, as a prerequisite to allowing access to organizational information systems.
 - (vii) Sanitize or destroy information system media containing Federal Contract Information before disposal or release for reuse.

- (viii) Limit physical access to organizational information systems, equipment, and the respective operating environments to authorized individuals.
 - (ix) Escort visitors and monitor visitor activity; maintain audit logs of physical access; and control and manage physical access devices.
 - (x) Monitor, control, and protect organizational communications (i.e., information transmitted or received by organizational information systems) at the external boundaries and key internal boundaries of the information systems.
 - (xi) Implement subnetworks for publicly accessible system components that are physically or logically separated from internal networks.
 - (xii) Identify, report, and correct information and information system flaws in a timely manner.
 - (xiii) Provide protection from malicious code at appropriate locations within organizational information systems.
 - (xiv) Update malicious code protection mechanisms when new releases are available.
 - (xv) Perform periodic scans of the information system and real-time scans of files from external sources as files are downloaded, opened, or executed.
- (2) Other requirements. This clause does not relieve the Contractor of any other specific safeguarding requirements specified by Federal agencies and departments relating to covered contractor information systems generally or other Federal safeguarding requirements for controlled unclassified information (CUI) as established by Executive Order 13556.
- (c) Subcontracts. The Contractor shall include the substance of this clause, including this paragraph (c), in subcontracts under this contract (including subcontracts for the acquisition of commercial items, other than commercially available off-the-shelf items), in which the subcontractor may have Federal contract information residing in or transiting through its information system.

I.19 - FAR 52.204-23 PROHIBITION ON CONTRACTING FOR HARDWARE, SOFTWARE, AND SERVICES DEVELOPED OR PROVIDED BY KASPERSKY LAB AND OTHER COVERED ENTITIES (JUL 2018) (PREV. I.160)

(a) *Definitions.* As used in this clause—

Covered article means any hardware, software, or service that—

- (1) Is developed or provided by a covered entity;
- (2) Includes any hardware, software, or service developed or provided in whole or in part by a covered entity; or
- (3) Contains components using any hardware or software developed in whole or in part by a covered entity.

Covered entity means—

- (1) Kaspersky Lab;
- (2) Any successor entity to Kaspersky Lab;
- (3) Any entity that controls, is controlled by, or is under common control with Kaspersky Lab; or
- (4) Any entity of which Kaspersky Lab has a majority ownership.

(b) *Prohibition.* Section 1634 of Division A of the National Defense Authorization Act for Fiscal Year 2018 (Pub. L. 115-91) prohibits Government use of any covered article. The Contractor is prohibited from—

- (1) Providing any covered article that the Government will use on or after October 1, 2018; and
- (2) Using any covered article on or after October 1, 2018, in the development of data or deliverables first produced in the performance of the contract.

(c) *Reporting requirement.*

- (1) In the event the Contractor identifies a covered article provided to the Government during contract performance, or the Contractor is notified of such by a subcontractor at any tier or any other source, the Contractor shall report, in writing, to the Contracting Officer or, in the case of the Department of Defense, to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for

any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.

- (2) The Contractor shall report the following information pursuant to paragraph (c)(1) of this clause:
- (i) Within 1 business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; brand; model number (Original Equipment Manufacturer (OEM) number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
 - (ii) Within 10 business days of submitting the report pursuant to paragraph (c)(1) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of a covered article, any reasons that led to the use or submission of the covered article, and any additional efforts that will be incorporated to prevent future use or submission of covered articles.
- (d) *Subcontracts.* The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts, including subcontracts for the acquisition of commercial items.

I.20 - FAR 52.204-25 PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019) (PREV. I.169)

- (a) Definitions. As used in this clause—
- “Covered foreign country” means The People’s Republic of China.
- “Covered telecommunications equipment or services” means—
- (1) Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities);
 - (2) For the purpose of public safety, security of Government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision

Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities);

- (3) Telecommunications or video surveillance services provided by such entities or using such equipment; or
- (4) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

“Critical technology” means—

- (1) Defense articles or defense services included on the United States Munitions List set forth in the International Traffic in Arms Regulations under subchapter M of chapter I of title 22, Code of Federal Regulations;
- (2) Items included on the Commerce Control List set forth in Supplement No. 1 to part 774 of the Export Administration Regulations under subchapter C of chapter VII of title 15, Code of Federal Regulations, and controlled-
 - (i) Pursuant to multilateral regimes, including for reasons relating to national security, chemical and biological weapons proliferation, nuclear nonproliferation, or missile technology; or
 - (ii) For reasons relating to regional stability or surreptitious listening;
- (3) Specially designed and prepared nuclear equipment, parts and components, materials, software, and technology covered by part 810 of title 10, Code of Federal Regulations (relating to assistance to foreign atomic energy activities);
- (4) Nuclear facilities, equipment, and material covered by part 110 of title 10, Code of Federal Regulations (relating to export and import of nuclear equipment and material);
- (5) Select agents and toxins covered by part 331 of title 7, Code of Federal Regulations, part 121 of title 9 of such Code, or part 73 of title 42 of such Code; or
- (6) Emerging and foundational technologies controlled pursuant to section 1758 of the Export Control Reform Act of 2018 (50 U.S.C. 4817).

“Substantial or essential component” means any component necessary for the proper function or performance of a piece of equipment, system, or service.

- (b) Prohibition. Section 889(a)(1)(A) of the John S. McCain National Defense Authorization Act for Fiscal Year 2019 (Pub. L. 115-232) prohibits the head of an executive agency on or after August 13, 2019, from procuring or obtaining, or extending or renewing a contract to procure or obtain, any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. The Contractor is prohibited from providing to the Government any equipment, system, or service that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system, unless an exception at paragraph (c) of this clause applies or the covered telecommunication equipment or services are covered by a waiver described in Federal Acquisition Regulation 4.2104.
- (c) Exceptions. This clause does not prohibit contractors from providing—
 - (1) A service that connects to the facilities of a third-party, such as backhaul, roaming, or interconnection arrangements; or
 - (2) Telecommunications equipment that cannot route or redirect user data traffic or permit visibility into any user data or packets that such equipment transmits or otherwise handles.
- (d) Reporting requirement.
 - (1) In the event the Contractor identifies covered telecommunications equipment or services used as a substantial or essential component of any system, or as critical technology as part of any system, during contract performance, or the Contractor is notified of such by a subcontractor at any tier or by any other source, the Contractor shall report the information in paragraph (d)(2) of this clause to the Contracting Officer, unless elsewhere in this contract are established procedures for reporting the information; in the case of the Department of Defense, the Contractor shall report to the website at <https://dibnet.dod.mil>. For indefinite delivery contracts, the Contractor shall report to the Contracting Officer for the indefinite delivery contract and the Contracting Officer(s) for any affected order or, in the case of the Department of Defense, identify both the indefinite delivery contract and any affected orders in the report provided at <https://dibnet.dod.mil>.
 - (2) The Contractor shall report the following information pursuant to paragraph (d)(1) of this clause

- (i) Within one business day from the date of such identification or notification: the contract number; the order number(s), if applicable; supplier name; supplier unique entity identifier (if known); supplier Commercial and Government Entity (CAGE) code (if known); brand; model number (original equipment manufacturer number, manufacturer part number, or wholesaler number); item description; and any readily available information about mitigation actions undertaken or recommended.
 - (ii) Within 10 business days of submitting the information in paragraph (d)(2)(i) of this clause: any further available information about mitigation actions undertaken or recommended. In addition, the Contractor shall describe the efforts it undertook to prevent use or submission of covered telecommunications equipment or services, and any additional efforts that will be incorporated to prevent future use or submission of covered telecommunications equipment or services.
- (e) Subcontracts. The Contractor shall insert the substance of this clause, including this paragraph (e), in all subcontracts and other contractual instruments, including subcontracts for the acquisition of commercial items.

I.21 - FAR 52.208-8 REQUIRED SOURCES FOR HELIUM AND HELIUM USAGE DATA (AUG 2018) [SC ALTERNATE APR 2018] (PREV. I.9B)

(a) *Definitions.*

“Bureau of Land Management,” as used in this clause, means the Department of the Interior, Bureau of Land Management, Amarillo Field Office, Helium Operations, located at 801 South Fillmore Street, Suite 500, Amarillo, TX 79101-3545.

“Federal helium supplier” means a private helium vendor that has an in-kind crude helium sales contract with the Bureau of Land Management (BLM) and that is on the BLM Amarillo Field Office’s Authorized List of Federal Helium Suppliers available via the Internet at <https://www.blm.gov/programs/energy-and-minerals/helium/partners>.

“Major helium requirement” means an estimated refined helium requirement greater than 200,000 standard cubic feet (scf) (measured at 14.7 pounds per square inch absolute pressure and 70 degrees Fahrenheit temperature) of gaseous helium or 7510 liters of liquid helium delivered to a helium use location per year.

(b) Requirements—

- (1) Contractors must purchase major helium requirements from Federal helium suppliers, to the extent that supplies are available.
 - (2) The Contractor shall provide a consolidated report of the following data to the Bureau of Land Management with a copy to the Contracting Officer within 45 days of the close of each fiscal quarter --(i) The name of the supplier;

(ii) The amount of helium purchased;

(iii) The delivery date(s); and

(iv) The location where the helium was used.
- (c) *Subcontracts.* The Contractor shall insert this clause, including this paragraph (c), in any subcontract or order that involves a major helium requirement.

I.22 - FAR 52.209-6 PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT (OCT 2015) (PREV. I.10)

- (a) Definition. "Commercially available off-the-shelf (COTS) item, as used in this clause-
- (1) Means any item of supply (including construction material) that is-
 - (i) A commercial item (as defined in paragraph (1) of the definition in FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
 - (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.
- (b) The Government suspends or debar Contractors to protect the Government's interests. Other than a subcontract for a commercially available off-the-shelf item, the Contractor shall not enter into any subcontract, in excess of \$35,000 with a Contractor that is debarred, suspended, or proposed for debarment by any executive agency unless there is a compelling reason to do so.

- (c) The Contractor shall require each proposed subcontractor whose subcontract will exceed \$35,000, other than a subcontractor providing a commercially available off-the-shelf item, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
- (d) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party (other than a subcontractor providing a commercially available off-the-shelf item) that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the System for Award Management (SAM) Exclusions). The notice must include the following:
 - (1) The name of the subcontractor.
 - (2) The Contractor's knowledge of the reasons for the subcontractor being listed with an exclusion in SAM.
 - (3) The compelling reason(s) for doing business with the subcontractor notwithstanding its being listed with an exclusion in SAM.
 - (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.
- (e) Subcontracts. Unless this is a contract for the acquisition of commercial items, the Contractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for the identification of the parties), in each subcontract that-
 - (1) Exceeds \$35,000 in value; and
 - (2) Is not a subcontract for commercially available off-the-shelf items.

**I.23 - FAR 52.209-9 UPDATES OF PUBLICLY AVAILABLE INFORMATION
REGARDING RESPONSIBILITY MATTERS (OCT 2018) (PREV. I.142)**

- (a) The Contractor shall update the information in the Federal Awardee Performance and Integrity Information System (FAPIIS) on a semi-annual basis, throughout the life of the contract, by posting the required information in the System for Award Management via <https://www.sam.gov>.

- (b) As required by section 3010 of the Supplemental Appropriations Act, 2010 (Pub. L. 111-212), all information posted in FAPIIS on or after April 15, 2011, except past performance reviews, will be publicly available. FAPIIS consists of two segments—
 - (1) The non-public segment, into which Government officials and the Contractor post information, which can only be viewed by—
 - (i) Government personnel and authorized users performing business on behalf of the Government; or
 - (ii) The Contractor, when viewing data on itself; and
 - (2) The publicly-available segment, to which all data in the non-public segment of FAPIIS is automatically transferred after a waiting period of 14 calendar days, except for—
 - (i) Past performance reviews required by subpart 42.15;
 - (ii) Information that was entered prior to April 15, 2011; or
 - (iii) Information that is withdrawn during the 14-calendar-day waiting period by the Government official who posted it in accordance with paragraph (c)(1) of this clause.
- (c) The Contractor will receive notification when the Government posts new information to the Contractor's record.
 - (1) If the Contractor asserts in writing within 7 calendar days, to the Government official who posted the information, that some of the information posted to the non-public segment of FAPIIS is covered by a disclosure exemption under the Freedom of Information Act, the Government official who posted the information must within 7 calendar days remove the posting from FAPIIS and resolve the issue in accordance with agency Freedom of Information procedures, prior to reposting the releasable information. The contractor must cite 52.209-9 and request removal within 7 calendar days of the posting to FAPIIS.
 - (2) The Contractor will also have an opportunity to post comments regarding information that has been posted by the Government. The comments will be retained as long as the associated information is retained, i.e., for a total period of 6 years. Contractor comments will remain a part of the record unless the Contractor revises them.

- (3) As required by section 3010 of Pub. L. 111-212, all information posted in FAPIIS on or after April 15, 2011, except past performance reviews, will be publicly available.
- (d) Public requests for system information posted prior to April 15, 2011, will be handled under Freedom of Information Act procedures, including, where appropriate, procedures promulgated under E.O. 12600.

I.24 - FAR 52.209-10 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS (NOV 2015)

- (a) Definitions. As used in this clause-

“Inverted domestic corporation” means a foreign incorporated entity that meets the definition of an inverted domestic corporation under 6 U.S.C. 395(b), applied in accordance with the rules and definitions of 6 U.S.C. 395(c).

“Subsidiary” means an entity in which more than 50 percent of the entity is owned-

- (1) Directly by a parent corporation; or
 - (2) Through another subsidiary of a parent corporation.
- (b) If the contractor reorganizes as an inverted domestic corporation or becomes a subsidiary of an inverted domestic corporation at any time during the period of performance of this contract, the Government may be prohibited from paying for Contractor activities performed after the date when it becomes an inverted domestic corporation or subsidiary. The Government may seek any available remedies in the event the Contractor fails to perform in accordance with the terms and conditions of the contract as a result of Government action under this clause.
 - (c) Exceptions to this prohibition are located at 9.108-2.
 - (d) In the event the Contractor becomes either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation during contract performance, the Contractor shall give written notice to the Contracting Officer within five business days from the date of the inversion event.

I.25 - FAR 52.210-1 MARKET RESEARCH (APR 2011) (PREV. I.143)

- (a) Definition. As used in this clause—

“Commercial item” and “nondevelopmental item” have the meaning contained in Federal Acquisition Regulation 2.101.

- (b) Before awarding subcontracts over the simplified acquisition threshold for items other than commercial items, the Contractor shall conduct market research to —
 - (1) Determine if commercial items or, to the extent commercial items suitable to meet the agency’s needs are not available, nondevelopmental items are available that—
 - (i) Meet the agency’s requirements;
 - (ii) Could be modified to meet the agency’s requirements; or
 - (iii) Could meet the agency’s requirements if those requirements were modified to a reasonable extent; and
 - (2) Determine the extent to which commercial items or nondevelopmental items could be incorporated at the component level.

I.26 - FAR 52.211-5 MATERIAL REQUIREMENTS (AUG 2000) (PREV. I.11)

- (a) Definitions.

As used in this clause --

New means composed of previously unused components, whether manufactured from virgin material, recovered material in the form of raw material, or materials and by-products generated from, and reused within, an original manufacturing process; provided that the supplies meet contract requirements, including but not limited to, performance, reliability, and life expectancy.

Reconditioned means restored to the original normal operating condition by readjustments and material replacement.

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

Remanufactured means factory rebuilt to original specifications.

Virgin material means --

- (1) Previously unused raw material, including previously unused copper, aluminum, lead, zinc, iron, other metal or metal ore; or
 - (2) Any undeveloped resource that is, or with new technology will become, a source of raw materials.
- (b) Unless this contract otherwise requires virgin material or supplies composed of or manufactured from virgin material, the Contractor shall provide supplies that are new, reconditioned, or remanufactured, as defined in this clause.
 - (c) A proposal to provide unused former Government surplus property shall include a complete description of the material, the quantity, the name of the Government agency from which acquired, and the date of acquisition.
 - (d) A proposal to provide used, reconditioned, or remanufactured supplies shall include a detailed description of such supplies and shall be submitted to the Contracting Officer for approval.
 - (e) Used, reconditioned, or remanufactured supplies, or unused former Government surplus property, may be used in contract performance if the Contractor has proposed the use of such supplies, and the Contracting Officer has authorized their use.

I.27 - FAR 52.215-8 ORDER OF PRECEDENCE – UNIFORM CONTRACT FORMAT
(OCT 1997) (PREV. I.12)

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) The Schedule (excluding the specifications).
- (b) Representations and other instructions.
- (c) Contract clauses.
- (d) Other documents, exhibits, and attachments.
- (e) The specifications.

I.28 - FAR 52.215-12 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA
(MAY 2018) (DEVIATION PF 2018-30) (PREV. I.13)

- (a) Unless an exception under FAR 15.403-1 applies, the Contractor shall require the subcontractor to submit certified cost or pricing data (actually or by specific identification in writing), in accordance with FAR 15.408, Table 15-2 (to include any information reasonably required to explain the subcontractor's estimating process such as the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data, and the nature and amount of any contingencies included in the price) –
 - (1) Before awarding any subcontract expected to exceed \$750,000 prior to July 1, 2018, or modifying any subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or
 - (2) Before awarding any subcontract expected to exceed \$2 million on or after July 1, 2018, or modifying any subcontract that was awarded on or after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million.
- (b) The Contractor shall require the subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (a) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (c) In each subcontract that exceeds the threshold for submission of certified cost or pricing data at FAR 15.403-4, when entered into, the Contractor shall insert either—
 - (1) The substance of this clause, including this paragraph (c), if paragraph (a) of this clause requires submission of certified cost or pricing data for the subcontract; or
 - (2) The substance of the clause at FAR 52.215-13, Subcontractor Certified Cost or Pricing Data—Modifications (DEVIATION 2018-O0015).

I.29 - FAR 52.215-13 SUBCONTRACTOR CERTIFIED COST OR PRICING DATA –
MODIFICATIONS (MAY 2018) (DEVIATION PF 2018-30) (PREV. I.14)

- (a) The requirements of paragraphs (b) and (c) of this clause shall—
 - (1) Become operative only for any modification of a subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or any modification of a subcontract that awarded on or

after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million; and

- (2) Be limited to such modifications.
- (b) Unless an exception under FAR 15.403-1 applies, the Contractor shall require the subcontractor to submit certified cost or pricing data (actually or by specific identification in writing), in accordance with FAR 15.408, Table 15-2 (to include any information reasonably required to explain the subcontractor's estimating process such as the judgmental factors applied and the mathematical or other methods used in the estimate, including those used in projecting from known data, and the nature and amount of any contingencies included in the price)—
 - (1) Before modifying any subcontract that was awarded prior to July 1, 2018, involving a pricing adjustment expected to exceed \$750,000, or
 - (2) Before modifying any subcontract that was awarded on or after July 1, 2018, involving a pricing adjustment expected to exceed \$2 million.
- (c) The Contractor shall require the subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (b) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in each subcontract that exceeds \$2 million.

I.30- FAR 52.215-15 PENSION ADJUSTMENTS AND ASSET REVERSIONS (OCT 2010) (PREV. I.168)

- (a) The Contractor shall promptly notify the Contracting Officer in writing when it determines that it will terminate a defined-benefit pension plan or otherwise recapture such pension fund assets.
- (b) For segment closings, pension plan terminations, or curtailment of benefits, the amount of the adjustment shall be—
 - (1) For contracts and subcontracts that are subject to full coverage under the Cost Accounting Standards (CAS) Board rules and regulations (48 CFR Chapter 99), the amount measured, assigned, and allocated in accordance with 48 CFR 9904.413-50(c)(12); and
 - (2) For contracts and subcontracts that are not subject to full coverage under the CAS, the amount measured, assigned, and allocated in accordance

with 48 CFR 9904.413-50(c)(12), except the numerator of the fraction at 48 CFR 9904.413-50(c)(12)(vi) shall be the sum of the pension plan costs allocated to all non-CAS covered contracts and subcontracts that are subject to Federal Acquisition Regulation (FAR) subpart 31.2 or for which certified cost or pricing data were submitted.

- (c) For all other situations where assets revert to the Contractor, or such assets are constructively received by it for any reason, the Contractor shall, at the Government's option, make a refund or give a credit to the Government for its equitable share of the gross amount withdrawn. The Government's equitable share shall reflect the Government's participation in pension costs through those contracts for which certified cost or pricing data were submitted or that are subject to FAR subpart 31.2.
- (d) The Contractor shall include the substance of this clause in all subcontracts under this contract that meet the applicability requirement of FAR 15.408(g).

I.31 - FAR 52.215-17 WAIVER OF FACILITIES CAPITAL COST OF MONEY (OCT 1997) (PREV. I.116)

The Contractor did not include facilities capital cost of money as a proposed cost of this contract. Therefore, it is an unallowable cost under this contract.

I.32 - FAR 52.215-21 REQUIREMENTS FOR CERTIFIED COST OR PRICING DATA AND DATA OTHER THAN CERTIFIED COST OR PRICING DATA – MODIFICATIONS (OCT 2010) (PREV. I.149)

- (a) *Exceptions from certified cost or pricing data.*
 - (1) In lieu of submitting certified cost or pricing data for modifications under this contract, for price adjustments expected to exceed the threshold set forth at FAR 15.403-4 on the date of the agreement on price or the date of the award, whichever is later, the Contractor may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable -
 - (i) *Identification of the law or regulation establishing the price offered.* If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.

(ii) *Information on modifications of contracts or subcontracts for commercial items.*

(A) If --

- (1) The original contract or subcontract was granted an exception from certified cost or pricing data requirements because the price agreed upon was based on adequate price competition or prices set by law or regulation, or was a contract or subcontract for the acquisition of a commercial item; and
- (2) The modification (to the contract or subcontract) is not exempted based on one of these exceptions, then the Contractor may provide information to establish that the modification would not change the contract or subcontract from a contract or subcontract for the acquisition of a commercial item to a contract or subcontract for the acquisition of an item other than a commercial item.

(B) For a commercial item exception, the Contractor shall provide, at a minimum, information on prices at which the same item or similar items have previously been sold that is adequate for evaluating the reasonableness of the price of the modification. Such information may include --

- (1) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price of recent sales in quantities similar to the proposed quantities.
- (2) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.

- (3) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.
 - (2) The Contractor grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this clause, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the Contractor's determination of the prices to be offered in the catalog or marketplace.
- (b) *Requirements for certified cost or pricing data.* If the Contractor is not granted an exception from the requirement to submit certified cost or pricing data, the following applies:
- (1) The Contractor shall submit certified cost or pricing data, data other than certified cost or pricing data, and supporting attachments in accordance with the instruction contained in Table 15-2 of FAR 15.408, which is incorporated by reference with the same force and effect as though it were inserted here in full text. The instructions in Table 15-2 are incorporated as a mandatory format to be used in this contract, unless the Contracting Officer and the Contractor agree to a different format and change this clause to use Alternate I.
 - (2) As soon as practicable after agreement on price, but before award (except for unpriced actions), the Contractor shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

I.33 - FAR 52.215-23 LIMITATIONS ON PASS-THROUGH CHARGES (OCT 2009)
(PREV. I.129)

- (a) *Definitions.* As used in this clause—

Added value means that the Contractor performs subcontract management functions that the Contracting Officer determines are a benefit to the Government (e.g., processing orders of parts or services, maintaining inventory, reducing delivery lead times, managing multiple sources for contract requirements, coordinating deliveries, performing quality assurance functions).

Excessive pass-through charge, with respect to a Contractor or subcontractor that adds no or negligible value to a contract or subcontract, means a charge to the Government by the Contractor or subcontractor that is for indirect costs or profit/fee on work performed by a subcontractor (other than charges for the costs

of managing subcontracts and any applicable indirect costs and associated profit/fee based on such costs).

No or negligible value means the Contractor or subcontractor cannot demonstrate to the Contracting Officer that its effort added value to the contract or subcontract in accomplishing the work performed under the contract (including task or delivery orders).

Subcontract means any contract, as defined in FAR 2.101, entered into by a subcontractor to furnish supplies or services for performance of the contract or a subcontract. It includes but is not limited to purchase orders, and change s and modifications to purchase orders.

Subcontractor, as defined in FAR 44.101, means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime Contractor or another subcontractor.

- (b) *General.* The Government will not pay excessive pass-through charges. The Contracting Officer shall determine if excessive pass-through charges exist.
- (c) *Reporting.* Required reporting of performance of work by the Contractor or a subcontractor. The Contractor shall notify the Contracting Officer in writing if—
 - (1) The Contractor changes the amount of subcontract effort after award such that it exceeds 70 percent of the total cost of work to be performed under the contract, task order, or delivery order. The notification shall identify the revised cost of the subcontract effort and shall include verification that the Contractor will provide added value; or
 - (2) Any subcontractor changes the amount of lower-tier subcontractor effort after award such that it exceeds 70 percent of the total cost of the work to be performed under its subcontract. The notification shall identify the revised cost of the subcontract effort and shall include verification that the subcontractor will provide added value as related to the work to be performed by the lower-tier subcontractor(s).
- (d) *Recovery of excessive pass-through charges.* If the Contracting Officer determines that excessive pass-through charges exist;
 - (1) For other than fixed-price contracts, the excessive pass-through charges are unallowable in accordance with the provisions in FAR subpart 31.2; and
 - (2) For applicable DoD fixed-price contracts, as identified in 15.408(n)(2)(i)(B), the Government shall be entitled to a price reduction for

the amount of excessive pass-through charges included in the contract price.

(e) *Access to records.*

- (1) The Contracting Officer, or authorized representative, shall have the right to examine and audit all the Contractor's records (as defined at FAR 52.215-2(a)) necessary to determine whether the Contractor proposed, billed, or claimed excessive pass-through charges.
- (2) For those subcontracts to which paragraph (f) of this clause applies, the Contracting Officer, or authorized representative, shall have the right to examine and audit all the subcontractor's records (as defined at FAR 52.215-2(a)) necessary to determine whether the subcontractor proposed, billed, or claimed excessive pass-through charges.

(f) *Flowdown.* The Contractor shall insert the substance of this clause, including this paragraph (f), in all cost-reimbursement subcontracts under this contract that exceed the simplified acquisition threshold, except if the contract is with DoD, then insert in all cost-reimbursement subcontracts and fixed-price subcontracts, except those identified in 15.408(n)(2)(i)(B)(2), that exceed the threshold for obtaining cost or pricing data in accordance with FAR 15.403-4.

I.34 - FAR 52.219-8 UTILIZATION OF SMALL BUSINESS CONCERNS (OCT 2018)
(PREV. I.15)

(a) *Definitions.* As used in this contract—

HUBZone small business concern means a small business concern, certified by the Small Business Administration, that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

Service-disabled veteran-owned small business concern—

- (1) Means a small business concern—
 - (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
 - (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case

of a service-disabled veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.

- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

Small business concern means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

Small disadvantaged business concern, consistent with 13 CFR 124.1002, means a small business concern under the size standard applicable to the acquisition, that—

- (1) Is at least 51 percent unconditionally and directly owned (as defined at 13 CFR 124.105) by—
- (i) One or more socially disadvantaged (as defined at 13 CFR 124.103) and economically disadvantaged (as defined at 13 CFR 124.104) individuals who are citizens of the United States; and
 - (ii) Each individual claiming economic disadvantage has a net worth not exceeding \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (2) The management and daily business operations of which are controlled (as defined at 13.CFR 124.106) by individuals, who meet the criteria in paragraphs (1)(i) and (ii) of this definition.

Veteran-owned small business concern means a small business concern—

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

Women-owned small business concern means a small business concern—

- (1) That is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and

- (2) Whose management and daily business operations are controlled by one or more women.
- (b) It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.
- (c) The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.
- (d)
 - (1) The Contractor may accept a subcontractor's written representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business if the subcontractor represents that the size and socioeconomic status representations with its offer are current, accurate, and complete as of the date of the offer for the subcontract.
 - (2) The Contractor may accept a subcontractor's representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business in the System for Award Management (SAM) if–
 - (i) The subcontractor is registered in SAM; and
 - (ii) The subcontractor represents that the size and socioeconomic status representations made in SAM are current, accurate and complete as of the date of the offer for the subcontract.

- (3) The Contractor may not require the use of SAM for the purposes of representing size or socioeconomic status in connection with a subcontract.
- (4) In accordance with 13 CFR 121.411, 124.1015, 125.29, 126.900, and 127.700, a contractor acting in good faith is not liable for misrepresentations made by its subcontractors regarding the subcontractor's size or socioeconomic status.
- (5) The Contractor shall confirm that a subcontractor representing itself as a HUBZone small business concern is certified by SBA as a HUBZone small business concern by accessing the System for Award Management or by contacting the SBA. Options for contacting the SBA include—
 - (i) HUBZone small business database search application web page at http://dsbs.sba.gov/dsbs/search/dsp_searchhubzone.cfm; or <http://www.sba.gov/hubzone>;
 - (ii) In writing to the Director/HUB, U.S. Small Business Administration, 409 3rd Street, SW., Washington, DC 20416; or
 - (iii) The SBA HUBZone Help Desk at hubzone@sba.gov.

I.35 - FAR 52.219-9 SMALL BUSINESS SUBCONTRACTING PLAN (AUG 2018)
(DEVIATION PF 2018-17) (PREV. I.16)

- (a) This clause does not apply to small business concerns.
- (b) *Definitions.* As used in this clause—

Alaska Native Corporation (ANC) means any Regional Corporation, Village Corporation, Urban Corporation, or Group Corporation organized under the laws of the State of Alaska in accordance with the Alaska Native Claims Settlement Act, as amended (43 U.S.C. 1601, *et seq.*) and which is considered a minority and economically disadvantaged concern under the criteria at 43 U.S.C. 1626(e)(1). This definition also includes ANC direct and indirect subsidiary corporations, joint ventures, and partnerships that meet the requirements of 43 U.S.C. 1626 (e)(2).

Commercial item means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

Commercial plan means a subcontracting plan (including goals) that covers the offeror's fiscal year and that applies to the entire production of commercial items

sold by either the entire company or a portion thereof (e.g., division, plant, or product line).

Electronic Subcontracting Reporting System (eSRS) means the Governmentwide, electronic, web-based system for small business subcontracting program reporting. The eSRS is located at <http://www.esrs.gov>.

Indian tribe means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act (43 U.S.C.A. 1601 *et seq.*), that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs in accordance with 25 U.S.C. 1452(c). This definition also includes Indian-owned economic enterprises that meet the requirements of 25 U.S.C. 1452(e).

Individual subcontracting plan means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offeror's planned subcontracting in support of the specific contract, except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

Master subcontracting plan means a subcontracting plan that contains all the required elements of an individual subcontracting plan, except goals, and may be incorporated into individual subcontracting plans, provided the master subcontracting plan has been approved.

Reduced payment means a payment that is for less than the amount agreed upon in a subcontract in accordance with its terms and conditions, for supplies and services for which the Government has paid the prime contractor.

Subcontract means any agreement (other than one involving an employer-employee relationship) entered into by a Federal Government prime Contractor or subcontractor calling for supplies or services required for performance of the contract or subcontract.

Total contract dollars means the final anticipated dollar value, including the dollar value of all options.

Untimely payment means a payment to a subcontractor that is more than 90 days past due under the terms and conditions of a subcontract for supplies and services for which the Government has paid the prime contractor.

(c)

- (1) The Offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately

addresses subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns. If the Offeror is submitting an individual subcontracting plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns, with a separate part for the basic contract and separate parts for each option (if any). The subcontracting plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the Offeror ineligible for award of a contract.

(2)

- (i) The Contractor may accept a subcontractor's written representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business if the subcontractor represents that the size and socioeconomic status representations with its offer are current, accurate, and complete as of the date of the offer for the subcontract.
- (ii) The Contractor may accept a subcontractor's representations of its size and socioeconomic status as a small business, small disadvantaged business, veteran-owned small business, service-disabled veteran-owned small business, or a women-owned small business in the System for Award Management (SAM) if--
 - (A) The subcontractor is registered in SAM; and
 - (B) The subcontractor represents that the size and socioeconomic status representations made in SAM are current, accurate and complete as of the date of the offer for the subcontract.
- (iii) The Contractor may not require the use of SAM for the purposes of representing size or socioeconomic status in connection with a subcontract.
- (iv) In accordance with 13 CFR 121.411, 124.1015, 125.29, 126.900, and 127.700, a contractor acting in good faith is not liable for misrepresentations made by its subcontractors regarding the subcontractor's size or socioeconomic status.

- (d) The Offeror's subcontracting plan shall include the following:
- (1) Separate goals, expressed in terms of total dollars subcontracted, and as a percentage of total planned subcontracting dollars, for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as subcontractors. For individual subcontracting plans, and if required by the Contracting Officer, goals shall also be expressed in terms of percentage of total contract dollars, in addition to the goals expressed as a percentage of total subcontract dollars. The Offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs. In accordance with 43 U.S.C. 1626--
 - (i) Subcontracts awarded to an ANC or Indian tribe shall be counted towards the subcontracting goals for small business and small disadvantaged business concerns, regardless of the size or Small Business Administration certification status of the ANC or Indian tribe; and
 - (ii) Where one or more subcontractors are in the subcontract tier between the prime Contractor and the ANC or Indian tribe, the ANC or Indian tribe shall designate the appropriate Contractor(s) to count the subcontract towards its small business and small disadvantaged business subcontracting goals.
 - (A) In most cases, the appropriate Contractor is the Contractor that awarded the subcontract to the ANC or Indian tribe.
 - (B) If the ANC or Indian tribe designates more than one Contractor to count the subcontract toward its goals, the ANC or Indian tribe shall designate only a portion of the total subcontract award to each Contractor. The sum of the amounts designated to various Contractors cannot exceed the total value of the subcontract.
 - (C) The ANC or Indian tribe shall give a copy of the written designation to the Contracting Officer, the prime Contractor, and the subcontractors in between the prime Contractor and the ANC or Indian tribe within 30 days of the date of the subcontract award.
 - (D) If the Contracting Officer does not receive a copy of the ANC's or the Indian tribe's written designation within 30 days of the subcontract award, the Contractor that awarded the

subcontract to the ANC or Indian tribe will be considered the designated Contractor.

- (2) A statement of—
 - (i) Total dollars planned to be subcontracted for an individual subcontracting plan; or the Offeror's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;
 - (ii) Total dollars planned to be subcontracted to small business concerns (including ANC and Indian tribes);
 - (iii) Total dollars planned to be subcontracted to veteran-owned small business concerns;
 - (iv) Total dollars planned to be subcontracted to service-disabled veteran-owned small business;
 - (v) Total dollars planned to be subcontracted to HUBZone small business concerns;
 - (vi) Total dollars planned to be subcontracted to small disadvantaged business concerns (including ANCs and Indian tribes); and
 - (vii) Total dollars planned to be subcontracted to women-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to --
 - (i) Small business concerns,
 - (ii) Veteran-owned small business concerns;
 - (iii) Service-disabled veteran-owned small business concerns;
 - (iv) HUBZone small business concerns;
 - (v) Small disadvantaged business concerns, and
 - (vi) Women-owned small business concerns.
- (4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.

- (5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, SAM, veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in SAM as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, service-disabled veteran-owned small, HUBZone small, small disadvantaged, and women-owned small business source list. Use of SAM as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.
- (6) A statement as to whether or not the Offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with --
 - (i) Small business concerns (including ANC and Indian tribes);
 - (ii) Veteran-owned small business concerns;
 - (iii) Service-disabled veteran-owned small business concerns;
 - (iv) HUBZone small business concerns;
 - (v) Small disadvantaged business concerns (including ANC and Indian tribes); and
 - (vi) Women-owned small business concerns.
- (7) The name of the individual employed by the Offeror who will administer the Offeror's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts the Offeror will make to assure that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns have an equitable opportunity to compete for subcontracts.
- (9) Assurances that the Offeror will include the clause of this contract entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that the Offeror will require all subcontractors (except small business concerns) that receive subcontracts in excess of \$700,000 (\$1.5 million for construction of any

public facility) with further subcontracting possibilities to adopt a subcontracting plan that complies with the requirements of this clause.

(10) Assurances that the Offeror will --

- (i) Cooperate in any studies or surveys as may be required;
- (ii) Submit periodic reports so that the Government can determine the extent of compliance by the Offeror with the subcontracting plan;
- (iii) After November 30, 2017, include subcontracting data for each order when reporting subcontracting achievements for indefinite-delivery, indefinite-quantity contracts with individual subcontracting plans where the contract is intended for use by multiple agencies;
- (iv) Submit the Individual Subcontract Report (ISR) and/or the Summary Subcontract Report (SSR), in accordance with paragraph (I) of this clause using the Electronic Subcontracting Reporting System (eSRS) at <http://www.esrs.gov>. The reports shall provide information on subcontract awards to small business concerns (including ANCs and Indian tribes that are not small businesses), veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns (including ANCs and Indian tribes that have not been certified by SBA as small disadvantaged businesses), women-owned small business concerns, and for NASA only, Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with this clause, or as provided in agency regulations;
- (v) Ensure that its subcontractors with subcontracting plans agree to submit the ISR and/or the SSR using eSRS;
- (vi) Provide its prime contract number, its unique entity identifier, and the email address of the Offeror's official responsible for acknowledging receipt of or rejecting the ISRs, to all first-tier subcontractors with subcontracting plans so they can enter this information into the eSRS when submitting their ISRs; and
- (vii) Require that each subcontractor with a subcontracting plan provide the prime contract number, its own unique entity identifier, and the email address of the subcontractor's official responsible for acknowledging receipt of or rejecting the ISRs, to its subcontractors with subcontracting plans.

- (11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror's efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):
- (i) Source lists (e.g., SAM), guides, and other data that identify small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.
 - (ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.
 - (iii) Records on each subcontract solicitation resulting in an award of more than \$250,000, indicating –
 - (A) Whether small business concerns were solicited and if not, why not;
 - (B) Whether veteran-owned small business concerns were solicited and, if not, why not;
 - (C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;
 - (D) Whether HUBZone small business concerns were solicited and, if not, why not;
 - (E) Whether small disadvantaged business concerns were solicited and if not, why not;
 - (F) Whether women-owned small business concerns were solicited and if not, why not; and
 - (G) If applicable, the reason award was not made to a small business concern.

- (iv) Records of any outreach efforts to contact --
 - (A) Trade associations;
 - (B) Business development organizations;
 - (C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, service-disabled veteran-owned, and women-owned small business sources; and
 - (D) Veterans service organizations.
- (v) Records of internal guidance and encouragement provided to buyers through --
 - (A) Workshops, seminars, training, etc., and
 - (B) Monitoring performance to evaluate compliance with the program's requirements.
- (vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each subcontractor. Contractors having commercial plans need not comply with this requirement.
- (12) Assurances that the Offeror will make a good faith effort to acquire articles, equipment, supplies, services, or materials, or obtain the performance of construction work from the small business concerns that it used in preparing the bid or proposal, in the same or greater scope, amount, and quality used in preparing and submitting the bid or proposal. Responding to a request for a quote does not constitute use in preparing a bid or proposal. The Offeror used a small business concern in preparing the bid or proposal if--
 - (i) The Offeror identifies the small business concern as a subcontractor in the bid or proposal or associated small business subcontracting plan, to furnish certain supplies or perform a portion of the subcontract; or
 - (ii) The Offeror used the small business concern's pricing or cost information or technical expertise in preparing the bid or proposal, where there is written evidence of an intent or understanding that the small business concern will be awarded a subcontract for the related work if the Offeror is awarded the contract.

- (13) Assurances that the Contractor will provide the Contracting Officer with a written explanation if the Contractor fails to acquire articles, equipment, supplies, services or materials or obtain the performance of construction work as described in (d)(12) of this clause. This written explanation must be submitted to the Contracting Officer within 30 days of contract completion.
 - (14) Assurances that the Contractor will not prohibit a subcontractor from discussing with the Contracting Officer any material matter pertaining to payment to or utilization of a subcontractor.
 - (15) Assurances that the offeror will pay its small business subcontractors on time and in accordance with the terms and conditions of the underlying subcontract, and notify the contracting officer when the prime contractor makes either a reduced or an untimely payment to a small business subcontractor (see 52.242-5).
- (e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:
- (1) Assist small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business subcontractors are excessively long, reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.
 - (2) Provide adequate and timely consideration of the potentialities of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.
 - (3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.
 - (4) Confirm that a subcontractor representing itself as a HUBZone small business concern is certified by SBA as a HUBZone small business concern in accordance with 52.219-8(d)(2).

- (5) Provide notice to subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owned small business, HUBZone small, small disadvantaged or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.
 - (6) For all competitive subcontracts over the simplified acquisition threshold in which a small business concern received a small business preference, upon determination of the successful subcontract offeror, prior to award of the subcontract the Contractor must inform each unsuccessful small business subcontract offeror in writing of the name and location of the apparent successful offeror and if the successful subcontract offeror is a small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concern.
 - (7) Assign each subcontract the NAICS code and corresponding size standard that best describes the principal purpose of the subcontract.
- (f) A master subcontracting plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the Offeror by this clause; provided --
- (1) The master subcontracting plan has been approved;
 - (2) The Offeror ensures that the master subcontracting plan is updated as necessary and provides copies of the approved master subcontracting plan, including evidence of its approval, to the Contracting Officer; and
 - (3) Goals and any deviations from the master subcontracting plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.
- (g) A commercial plan is the preferred type of subcontracting plan for contractors furnishing commercial items. The commercial plan shall relate to the offeror's planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Once the Contractor's commercial plan has been approved, the Government will not require another subcontracting plan from the same Contractor while the plan remains in effect, as long as the product or service being provided by the Contractor continues to meet the definition of a commercial item. A contractor with a commercial plan shall comply with the reporting requirements stated in paragraph (d)(10) of this clause by submitting one SSR in eSRS for all contracts covered by its commercial plan. This report shall be acknowledged or rejected in eSRS by the

Contracting Officer who approved the plan. This report shall be submitted within 30 days after the end of the Government's fiscal year.

- (h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.
- (i) A contract may have no more than one subcontracting plan. When a modification exceeds the subcontracting plan threshold in 19.702(a), or an option is exercised, the goals of the existing subcontracting plan shall be amended to reflect any new subcontracting opportunities. When the goals in a subcontracting plan are amended, these goal changes do not apply retroactively.
- (j) Subcontracting plans are not required from subcontractors when the prime contract contains the clause at 52.212-5, Contract Terms and Conditions Required to Implement Statutes or Executive Orders—Commercial Items, or when the subcontractor provides a commercial item subject to the clause at 52.244-6, Subcontracts for Commercial Items, under a prime contract.
- (k) The failure of the Contractor or subcontractor to comply in good faith with (1) the clause of this contract entitled "Utilization Of Small Business Concerns," or (2) an approved plan required by this clause, shall be a material breach of the contract and may be considered in any past performance evaluation of the Contractor.
- (l) The Contractor shall submit ISRs and SSRs using the web-based eSRS at <http://www.esrs.gov>. Purchases from a corporation, company, or subdivision that is an affiliate of the Contractor or subcontractor are not included in these reports. Subcontract awards by affiliates shall be treated as subcontract awards by the Contractor. Subcontract award data reported by the Contractor and subcontractors shall be limited to awards made to their immediate next-tier subcontractors. Credit cannot be taken for awards made to lower tier subcontractors, unless the Contractor or subcontractor has been designated to receive a small business or small disadvantaged business credit from an ANC or Indian tribe. Only subcontracts involving performance in the United States or its outlying areas should be included in these reports with the exception of subcontracts under a contract awarded by the State Department or any other agency that has statutory or regulatory authority to require subcontracting plans for subcontracts performed outside the United States and its outlying areas.
 - (1) *ISR*. This report is not required for commercial plans. The report is required for each contract containing an individual subcontract plan.
 - (i) The report shall be submitted semi-annually during contract performance for the periods ending March 31 and September 30. A report is also required for each contract within 30 days of contract completion. Reports are due 30 days after the close of each

reporting period, unless otherwise directed by the Contracting Officer. Reports are required when due, regardless of whether there has been any subcontracting activity since the inception of the contract or the previous reporting period. When the Contracting Officer rejects an ISR, the Contractor shall submit a corrected report within 30 days of receiving the notice of ISR rejection.

(ii)

(A) When a subcontracting plan contains separate goals for the basic contract and each option, as prescribed by FAR 19.704(c), the dollar goal inserted on this report shall be the sum of the base period through the current option; for example, for a report submitted after the second option is exercised, the dollar goal would be the sum of the goals for the basic contract, the first option, and the second option.

(B) If a subcontracting plan has been added to the contract pursuant to 19.702(a)(3) or 19.301-2(e), the Contractor's achievements must be reported in the ISR on a cumulative basis from the date of incorporation of the subcontracting plan into the contract.

(iii) When a subcontracting plan includes indirect costs in the goals, these costs must be included in this report.

(iv) The authority to acknowledge receipt or reject the ISR resides—

(A) In the case of the prime Contractor, with the Contracting Officer; and

(B) In the case of a subcontract with a subcontracting plan, with the entity that awarded the subcontract.

(2) SSR.

(i) Reports submitted under individual contract plans.

(A) This report encompasses all subcontracting under prime contracts and subcontracts with an executive agency, regardless of the dollar value of the subcontracts. This report also includes indirect costs on a prorated basis when the indirect costs are excluded from the subcontracting goals.

- (B) The report may be submitted on a corporate, company or subdivision (e.g. plant or division operating as a separate profit center) basis, unless otherwise directed by the agency.
 - (C) If the Contractor or a subcontractor is performing work for more than one executive agency, a separate report shall be submitted to each executive agency covering only that agency's contracts, provided at least one of that agency's contracts is over \$700,000 (over \$1.5 million for construction of a public facility) and contains a subcontracting plan. For DoD, a consolidated report shall be submitted for all contracts awarded by military departments/agencies and/or subcontracts awarded by DoD prime contractors.
 - (D) The report shall be submitted annually by October 30 for the twelve month period ending September 30. When a Contracting Officer rejects an SSR, the Contractor shall submit a revised report within 30 days of receiving the notice of SSR rejection.
 - (E) Subcontract awards that are related to work for more than one executive agency shall be appropriately allocated.
 - (F) The authority to acknowledge or reject SSRs in eSRS, including SSRs submitted by subcontractors with subcontracting plans, resides with the Government agency awarding the prime contracts unless stated otherwise in the contract.
- (ii) Reports submitted under a commercial plan.
- (A) The report shall include all subcontract awards under the commercial plan in effect during the Government's fiscal year and all indirect costs.
 - (B) The report shall be submitted annually, within thirty days after the end of the Government's fiscal year.
 - (C) If a Contractor has a commercial plan and is performing work for more than one executive agency, the Contractor shall specify the percentage of dollars attributable to each agency.
 - (D) The authority to acknowledge or reject SSRs for commercial plans resides with the Contracting Officer who approved the commercial plan.

I.36 - FAR 52.219-16 LIQUIDATED DAMAGES – SUBCONTRACTING PLAN (JAN 1999) (PREV. I.17)

- (a) Failure to make a good faith effort to comply with the subcontracting plan, as used in this clause, means a willful or intentional failure to perform in accordance with the requirements of the subcontracting plan approved under the clause in this contract entitled "Small Business Subcontracting Plan," or willful or intentional action to frustrate the plan.
- (b) Performance shall be measured by applying the percentage goals to the total actual subcontracting dollars or, if a commercial plan is involved, to the pro rata share of actual subcontracting dollars attributable to Government contracts covered by the commercial plan. If, at contract completion, or in the case of a commercial plan, at the close of the fiscal year for which the plan is applicable, the Contractor has failed to meet its subcontracting goals and the Contracting Officer decides in accordance with paragraph (c) of this clause that the Contractor failed to make a good faith effort to comply with its subcontracting plan, established in accordance with the clause in this contract entitled, "Small Business Subcontracting Plan", the Contractor shall pay the Government liquidated damages in an amount stated. The amount of probable damages attributable to the Contractor's failure to comply shall be an amount equal to the actual dollar amount by which the Contractor failed to achieve each subcontract goal.
- (c) Before the Contracting Officer makes a final decision that the Contractor has failed to make such good faith effort, the Contracting Officer shall give the Contractor written notice specifying the failure and permitting the Contractor to demonstrate what good faith efforts have been made and to discuss the matter. Failure to respond to the notice may be taken as an admission that no valid explanation exists. If, after consideration of all the pertinent data, the Contracting Officer finds that the Contractor failed to make a good faith effort to comply with the subcontracting plan, the Contracting Officer shall issue a final decision to that effect and require that the Contractor pay the Government liquidated damages as provided in paragraph (b) of this clause.
- (d) With respect to commercial plans, the Contracting Officer who approved the plan will perform the functions of the Contracting Officer under this clause on behalf of all agencies with contracts covered by the commercial plan.
- (e) The Contractor shall have the right of appeal, under the clause in this contract entitled, Disputes, from any final decision of the Contracting Officer.
- (f) Liquidated damages shall be in addition to any other remedies that the Government may have.

I.37 - FAR 52.219-28 POST-AWARD SMALL BUSINESS PROGRAM
REREPRESENTATION (JUL 2013) (PREV. I.131)

(a) *Definitions.* As used in this clause--

Long-term contract means a contract of more than five years in duration, including options. However, the term does not include contracts that exceed five years in duration because the period of performance has been extended for a cumulative period not to exceed six months under the clause at 52.217-8, Option to Extend Services, or other appropriate authority.

Small business concern means a concern, including its affiliates, that is independently owned and operated, not dominant in the field of operation in which it is bidding on Government contracts, and qualified as a small business under the criteria in 13 CFR part 121 and the size standard in paragraph (c) of this clause. Such a concern is "not dominant in its field of operation" when it does not exercise a controlling or major influence on a national basis in a kind of business activity in which a number of business concerns are primarily engaged. In determining whether dominance exists, consideration shall be given to all appropriate factors, including volume of business, number of employees, financial resources, competitive status or position, ownership or control of materials, processes, patents, license agreements, facilities, sales territory, and nature of business activity.

(b) If the Contractor represented that it was a small business concern prior to award of this contract, the Contractor shall rerepresent its size status according to paragraph (e) of this clause or, if applicable, paragraph (g) of this clause, upon the occurrence of any of the following:

- (1) Within 30 days after execution of a novation agreement or within 30 days after modification of the contract to include this clause, if the novation agreement was executed prior to inclusion of this clause in the contract.
- (2) Within 30 days after a merger or acquisition that does not require a novation or within 30 days after modification of the contract to include this clause, if the merger or acquisition occurred prior to inclusion of this clause in the contract.
- (3) For long-term contracts—
 - (i) Within 60 to 120 days prior to the end of the fifth year of the contract; and
 - (ii) Within 60 to 120 days prior to the date specified in the contract for exercising any option thereafter.

- (c) The Contractor shall rerepresent its size status in accordance with the size standard in effect at the time of this rerepresentation that corresponds to the North American Industry Classification System (NAICS) code assigned to this contract. The small business size standard corresponding to this NAICS code can be found at <http://www.sba.gov/content/table-small-business-size-standards>.
- (d) The small business size standard for a Contractor providing a product which it does not manufacture itself, for a contract other than a construction or service contract, is 500 employees.
- (e) Except as provided in paragraph (g) of this clause, the Contractor shall make the representation required by paragraph (b) of this clause by validating or updating all its representations in the Representations and Certifications section of the System for Award Management (SAM) and its other data in SAM, as necessary, to ensure that they reflect the Contractor's current status. The Contractor shall notify the contracting office in writing within the timeframes specified in paragraph (b) of this clause that the data have been validated or updated, and provide the date of the validation or update.
- (f) If the Contractor represented that it was other than a small business concern prior to award of this contract, the Contractor may, but is not required to, take the actions required by paragraphs (e) or (g) of this clause.
- (g) If the Contractor does not have representations and certifications in SAM, or does not have a representation in SAM for the NAICS code applicable to this contract, the Contractor is required to complete the following rerepresentation and submit it to the contracting office, along with the contract number and the date on which the rerepresentation was completed:

The Contractor represents that it ____ is, ____ is not a small business concern under NAICS Code _____ assigned to contract number _____.

[Contractor to sign and date and insert authorized signer's name and title].

I.38 - FAR 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997) (PREV. I.19)

If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

I.39 - FAR 52.222-3 CONVICT LABOR (JUN 2003) (PREV. I.20)

- (a) Except as provided in paragraph (b) of this clause, the Contractor shall not employ in the performance of this contract any person undergoing a sentence of imprisonment imposed by any court of a State, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands.
- (b) The Contractor is not prohibited from employing persons –
 - (1) On parole or probation to work at paid employment during the term of their sentence;
 - (2) Who have been pardoned or who have served their terms; or
 - (3) Confined for violation of the laws of any of the States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, or the U.S. Virgin Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if –
 - (i) The worker is paid or is in an approved work training program on a voluntary basis;
 - (ii) Representatives of local union central bodies or similar labor union organizations have been consulted;
 - (iii) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services;
 - (iv) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
 - (v) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

I.40 - FAR 52.222-4 CONTRACT WORK HOURS AND SAFETY STANDARDS – OVERTIME COMPENSATION (MAY 2018) (PREV. I.21)

- (a) Overtime requirements. No Contractor or subcontractor employing laborers or mechanics (see Federal Acquisition Regulation 22.300) shall require or permit

them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.

- (b) Violation; liability for unpaid wages; liquidated damages. The responsible Contractor and subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate specified at 29 CFR 5.5(b)(2) per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without paying overtime wages required by the Contract Work Hours and Safety Standards statute (found at 40 U.S.C. chapter 37). In accordance with the Federal Civil Penalties Inflation Adjustment Act of 1990 (28 U.S.C. 2461 Note), the Department of Labor adjusts this civil monetary penalty for inflation no later than January 15 each year.
- (c) Withholding for unpaid wages and liquidated damages. The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or subcontractor liabilities for unpaid wages and liquidated damages. If amounts withheld under the contract are insufficient to satisfy Contractor or subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards statute.
- (d) Payrolls and basic records.
 - (1) The Contractor and its subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Construction Wage Rate Requirements statute.
 - (2) The Contractor and its subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or subcontractor also shall allow authorized representatives of the Contracting Officer or Department of Labor to interview employees in the workplace during working hours.

- (e) Subcontracts. The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts that may require or involve the employment of laborers and mechanics and require subcontractors to include these provisions in any such lower tier subcontracts. The Contractor shall be responsible for compliance by any subcontractor or lower-tier subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

I.41 - FAR 52.222-11 SUBCONTRACTS (LABOR STANDARDS) (MAY 2014) (PREV. I.22)

- (a) *Definition.* "Construction, alteration or repair," as used in this clause means all types of work done by laborers and mechanics employed by the construction Contractor or construction subcontractor on a particular building or work at the site thereof, including without limitation—
 - (1) Altering, remodeling, installation (if appropriate) on the site of the work of items fabricated off-site;
 - (2) Painting and decorating;
 - (3) Manufacturing or furnishing of materials, articles, supplies, or equipment on the site of the building or work;
 - (4) Transportation of materials and supplies between the site of the work within the meaning of paragraphs (a)(1)(i) and (ii) of the "site of the work" as defined in the FAR clause at 52.222-6, Construction Wage Rate Requirements of this contract, and a facility which is dedicated to the construction of the building or work and is deemed part of the site of the work within the meaning of paragraph (2) of the "site of the work" definition; and
 - (5) Transportation of portions of the building or work between a secondary site where a significant portion of the building or work is constructed, which is part of the "site of the work" definition in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Construction Wage Rate Requirements, and the physical place or places where the building or work will remain (paragraph (a)(1)(i) of the FAR clause at 52.222-6, in the "site of the work" definition).
- (b) The Contractor or subcontractor shall insert in any subcontracts for construction, alterations and repairs within the United States the clauses entitled—
 - (1) Construction Wage Rate Requirements;
 - (2) Contract Work Hours and Safety Standards -- Overtime Compensation (if the clause is included in this contract);

- (3) Apprentices and Trainees;
 - (4) Payrolls and Basic Records;
 - (5) Compliance with Copeland Act Requirements;
 - (6) Withholding of Funds;
 - (7) Subcontracts (Labor Standards);
 - (8) Contract Termination – Debarment;
 - (9) Disputes Concerning Labor Standards;
 - (10) Compliance with Construction Wage Rate Requirements and Related Regulations; and
 - (11) Certification of Eligibility.
- (c) The Prime Contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor performing construction within the United States with all the contract clauses cited in paragraph (b).
- (d) (1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Standard Form (SF) 1413, Statement and Acknowledgment, for each subcontract for construction within the United States, including the subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (b) of this clause have been included in the subcontract.
- (2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.
- (e) The Contractor shall insert the substance of this clause, including this paragraph (e) in all subcontracts for construction within the United States.

I.42 - FAR 52.222-19 CHILD LABOR—COOPERATION WITH AUTHORITIES AND REMEDIES (OCT 2019) (PREV. I.167)

- (a) *Applicability.* This clause does not apply to the extent that the Contractor is supplying end products mined, produced, or manufactured in—
- (1) Canada, and the anticipated value of the acquisition is \$25,000 or more;

- (2) Israel, and the anticipated value of the acquisition is \$50,000 or more;
 - (3) Mexico, and the anticipated value of the acquisition is \$80,317 or more; or
 - (4) Armenia, Aruba, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong, Hungary, Iceland, Ireland, Italy, Japan, Korea, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Montenegro, Netherlands, New Zealand, Norway, Poland, Portugal, Romania, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, Taiwan, Ukraine, or the United Kingdom and the anticipated value of the acquisition is \$180,000 or more.
- (b) *Cooperation with Authorities.* To enforce the laws prohibiting the manufacture or importation of products mined, produced, or manufactured by forced or indentured child labor, authorized officials may need to conduct investigations to determine whether forced or indentured child labor was used to mine, produce, or manufacture any product furnished under this contract. If the solicitation includes the provision 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products, or the equivalent at 52.212-3, the Contractor agrees to cooperate fully with authorized officials of the contracting agency, the Department of the Treasury, or the Department of Justice by providing reasonable access to records, documents, persons, or premises upon reasonable request by the authorized officials.
- (c) *Violations.* The Government may impose remedies set forth in paragraph (d) for the following violations:
- (1) The Contractor has submitted a false certification regarding knowledge of the use of forced or indentured child labor for listed end products.
 - (2) The Contractor has failed to cooperate, if required, in accordance with paragraph (b) of this clause, with an investigation of the use of forced or indentured child labor by an Inspector General, Attorney General, or the Secretary of the Treasury.
 - (3) The Contractor uses forced or indentured child labor in its mining, production, or manufacturing processes.
 - (4) The Contractor has furnished under the contract end products or components that have been mined, produced, or manufactured wholly or in part by forced or indentured child labor. (The Government will not pursue remedies at paragraph (d)(2) or paragraph (d)(3) of this clause unless sufficient evidence indicates that the Contractor knew of the violation.)

- (d) *Remedies.* (1) The Contracting Officer may terminate the contract.
- (2) The suspending official may suspend the Contractor in accordance with procedures in FAR Subpart 9.4.
- (3) The debarring official may debar the Contractor for a period not to exceed 3 years in accordance with the procedures in FAR Subpart 9.4.

I.43 - FAR 52.222-21 PROHIBITION OF SEGREGATED FACILITIES (APR 2015)
(PREV. I.23)

- (a) *Definitions.* As used in this clause

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Segregated facilities, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

- (b) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in this contract.
- (c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

I.44 - FAR 52.222-26 EQUAL OPPORTUNITY (SEP 2016) (PREV. I.24)

- (a) *Definition.* As used in this clause.

Compensation means any payments made to, or on behalf of, an employee or offered to an applicant as remuneration for employment, including but not limited to salary, wages, overtime pay, shift differentials, bonuses, commissions, vacation and holiday pay, allowances, insurance and other benefits, stock options and awards, profit sharing, and retirement.

Compensation information means the amount and type of compensation provided to employees or offered to applicants, including, but not limited to, the desire of the Contractor to attract and retain a particular employee for the value the employee is perceived to add to the Contractor's profit or productivity; the availability of employees with like skills in the marketplace; market research about the worth of similar jobs in the relevant marketplace; job analysis, descriptions, and evaluations; salary and pay structures; salary surveys; labor union agreements; and Contractor decisions, statements and policies related to setting or altering employee compensation.

Essential job functions means the fundamental job duties of the employment position an individual holds. A job function may be considered essential if—

- (1) The access to compensation information is necessary in order to perform that function or another routinely assigned business task; or
- (2) The function or duties of the position include protecting and maintaining the privacy of employee personnel records, including compensation information.

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

United States, means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.

- (b) (1) If, during any 12-month period (including the 12 months preceding the award of this contract), the Contractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Contractor shall comply with this clause, except for work performed outside the United States by employees who were not recruited within the United States. Upon request, the Contractor shall provide information necessary to determine the applicability of this clause.

- (2) If the Contractor is a religious corporation, association, educational institution, or society, the requirements of this clause do not apply with respect to the employment of individuals of a particular religion to perform work connected with the carrying on of the Contractor's activities (41 CFR 60-1.5).
- (c)
 - (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. However, it shall not be a violation of this clause for the Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
 - (2) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. This shall include, but not be limited to—
 - (i) Employment;
 - (ii) Upgrading;
 - (iii) Demotion;
 - (iv) Transfer;
 - (v) Recruitment or recruitment advertising;
 - (vi) Layoff or termination;
 - (vii) Rates of pay or other forms of compensation; and
 - (viii) Selection for training, including apprenticeship.
 - (3) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
 - (4) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
 - (5)
 - (i) The Contractor shall not discharge or in any other manner discriminate against any employee or applicant for employment

because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This prohibition against discrimination does not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the Contractor's legal duty to furnish information.

- (ii) The Contractor shall disseminate the prohibition on discrimination in paragraph (c)(5)(i) of this clause, using language prescribed by the Director of the Office of Federal Contract Compliance Programs (OFCCP), to employees and applicants by—
 - (A) Incorporation into existing employee manuals or handbooks; and
 - (B) Electronic posting or by posting a copy of the provision in conspicuous places available to employees and applicants for employment.
- (6) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (7) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.
- (8) The Contractor shall furnish to the contracting agency all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Contractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR Part 60-1. Unless the Contractor has filed within the 12 months preceding the date of contract award, the Contractor shall, within 30 days after contract award, apply to either the regional Office of Federal Contract Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.

- (9) The Contractor shall permit access to its premises, during normal business hours, by the contracting agency or the OFCCP for the purpose of conducting on-site compliance evaluations and complaint investigations. The Contractor shall permit the Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.
 - (10) If the OFCCP determines that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended; in the rules, regulations, and orders of the Secretary of Labor; or as otherwise provided by law.
 - (11) The Contractor shall include the terms and conditions of this clause in every subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each subcontractor or vendor.
 - (12) The Contractor shall take such action with respect to any subcontract or purchase order as the Director of OFCCP may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance, provided, that if the Contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of any direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (d) Notwithstanding any other clause in this contract, disputes relative to this clause will be governed by the procedures in 41 CFR part 60-1.

I.45 - FAR 52.222-29 NOTIFICATION OF VISA DENIAL (APR 2015) (PREV. I.25)

- (a) Definitions. As used in this clause-

Gender identity has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

Sexual orientation has the meaning given by the Department of Labor's Office of Federal Contract Compliance Programs, and is found at http://www.dol.gov/ofccp/LGBT/LGBT_FAQs.html.

- (b) Requirement to notify.
 - (1) It is a violation of Executive Order 11246 for a Contractor to refuse to employ any applicant or not to assign any person hired in the United States, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, or Wake Island, on the basis that the individual's race, color, religion, sex, sexual orientation, gender identity, or national origin is not compatible with the policies of the country where or for whom the work will be performed (41 CFR 60-1.10).
 - (2) The Contractor shall notify the U.S. Department of State, Assistant Secretary, Bureau of Political-Military Affairs (PM), 2201 C Street NW, Room 6212, Washington, DC 20520, and the U.S. Department of Labor, Deputy Assistant Secretary for Federal Contract Compliance, when it has knowledge of any employee or potential employee being denied an entry visa to a country where this contract will be performed, and it believes the denial is attributable to the race, color, religion, sex, sexual orientation, gender identity, or national origin of the employee or potential employee.

I.46 - FAR 52.222-35 EQUAL OPPORTUNITY FOR VETERANS (OCT 2015) (PREV. I.26)

- (a) *Definitions.* As used in this clause—

“Active duty wartime or campaign badge veteran,” “Armed Forces service medal veteran,” “disabled veteran,” “protected veteran,” “qualified disabled veteran,” and “recently separated veteran” have the meanings given at FAR 22.1301.
- (b) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60-300.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified protected veterans, and requires affirmative action by the Contractor to employ and advance in employment qualified protected veterans.
- (c) Subcontracts. The Contractor shall insert the terms of this clause in subcontracts of \$150,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

I.47 - FAR 52.222-36 EQUAL OPPORTUNITY FOR WORKERS WITH DISABILITIES
(JUL 2014) (PREV. I.27)

- (a) Equal opportunity clause. The Contractor shall abide by the requirements of the equal opportunity clause at 41 CFR 60.741.5(a), as of March 24, 2014. This clause prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by the contractor to employ, advance in employment qualified individuals with disabilities.
- (b) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$15,000 unless exempted by rules, regulations, or orders of the Secretary, so that such provisions will be binding upon each subcontractor or vendor. The Contractor shall act as specified by the Director, Office of Federal Contract Compliance Programs of the U.S. Department of Labor, to enforce the terms, including action for noncompliance. Such necessary changes in language may be made as shall be appropriate to identify properly the parties and their undertakings.

I.48 - FAR 52.222-37 EMPLOYMENT REPORTS ON VETERANS (FEB 2016) (PREV. I.28)

- (a) *Definitions.* As used in this clause, “active duty wartime or campaign badge veteran,” “Armed Forces service medal veteran,” “disabled veteran,” “protected veteran,” and “recently separated veteran,” have the meanings given in FAR 22.1301.
- (b) Unless the Contractor is a State or local government agency, the Contractor shall report at least annually, as required by the Secretary of Labor, on—
 - (1) The total number of employees in the contractor’s workforce, by job category and hiring location, who are protected veterans (i.e., active duty wartime or campaign badge veterans, Armed Forces service medal veterans, disabled veterans, and recently separated veterans);
 - (2) The total number of new employees hired during the period covered by the report, and of the total, the number of protected veterans (i.e., active duty wartime or campaign badge veterans, Armed Forces service medal veterans, disabled veterans, and recently separated veterans); and
 - (3) The maximum number and minimum number of employees of the Contractor or subcontractor at each hiring location during the period covered by the report.
- (c) The Contractor shall report the above items by filing the VETS-4212 “Federal Contractor Veterans’ Employment Report” (see “VETS-4212 Federal Contractor

Reporting” and “Filing Your VETS-4212 Report”
at <http://www.dol.gov/vets/vets4212.htm>).

- (d) The Contractor shall submit VETS-4212 Reports no later than September 30 of each year.
- (e) The employment activity report required by paragraphs (b)(2) and (b)(3) of this clause shall reflect total new hires, and maximum and minimum number of employees, during the most recent 12-month period preceding the ending date selected for the report. Contractors may select an ending date—
 - (1) As of the end of any pay period between July 1 and August 31 of the year the report is due; or
 - (2) As of December 31, if the Contractor has prior written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (f) The number of veterans reported must be based on data known to the contractor when completing the VETS-4212. The contractor’s knowledge of veterans status may be obtained in a variety of ways, including an invitation to applicants to self-identify (in accordance with 41 CFR 60-300.42), voluntary self-disclosure by employees, or actual knowledge of veteran status by the contractor. This paragraph does not relieve an employer of liability for discrimination under 38 U.S.C. 4212.
- (g) The Contractor shall insert the terms of this clause in subcontracts of \$150,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor.

I.49- FAR 52.222-50 COMBATING TRAFFICKING IN PERSONS (JAN 2019) (PREV. I.118)

- (a) *Definitions.* As used in this clause—

Agent means any individual, including a director, an officer, an employee, or an independent contractor, authorized to act on behalf of the organization.

Coercion means—

- (1) Threats of serious harm to or physical restraint against any person;
- (2) Any scheme, plan, or pattern intended to cause a person to believe that failure to perform an act would result in serious harm to or physical restraint against any person; or

- (3) The abuse or threatened abuse of the legal process.

Commercial sex act means any sex act on account of which anything of value is given to or received by any person.

Commercially available off-the-shelf (COTS) item means—

- (1) Any item of supply (including construction material) that is—
- (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Debt bondage means the status or condition of a debtor arising from a pledge by the debtor of his or her personal services or of those of a person under his or her control as a security for debt, if the value of those services as reasonably assessed is not applied toward the liquidation of the debt or the length and nature of those services are not respectively limited and defined.

Employee means an employee of the Contractor directly engaged in the performance of work under the contract who has other than a minimal impact or involvement in contract performance.

Forced Labor means knowingly providing or obtaining the labor or services of a person—

- (1) By threats of serious harm to, or physical restraint against, that person or another person;
- (2) By means of any scheme, plan, or pattern intended to cause the person to believe that, if the person did not perform such labor or services, that person or another person would suffer serious harm or physical restraint; or
- (3) By means of the abuse or threatened abuse of law or the legal process.

Involuntary servitude includes a condition of servitude induced by means of—

- (1) Any scheme, plan, or pattern intended to cause a person to believe that, if the person did not enter into or continue in such conditions, that person or another person would suffer serious harm or physical restraint; or
- (2) The abuse or threatened abuse of the legal process.

Recruitment fees means fees of any type, including charges, costs, assessments, or other financial obligations, that are associated with the recruiting process, regardless of the time, manner, or location of imposition or collection of the fee.

- (1) Recruitment fees include, but are not limited to, the following fees (when they are associated with the recruiting process) for—
 - (i) Soliciting, identifying, considering, interviewing, referring, retaining, transferring, selecting, training, providing orientation to, skills testing, recommending, or placing employees or potential employees;
 - (ii) Advertising;
 - (iii) Obtaining permanent or temporary labor certification, including any associated fees;
 - (iv) Processing applications and petitions;
 - (v) Acquiring visas, including any associated fees;
 - (vi) Acquiring photographs and identity or immigration documents, such as passports, including any associated fees;
 - (vii) Accessing the job opportunity, including required medical examinations and immunizations; background, reference, and security clearance checks and examinations; and additional certifications;
 - (viii) An employer's recruiters, agents or attorneys, or other notary or legal fees;
 - (ix) Language interpretation or translation, arranging for or accompanying on travel, or providing other advice to employees or potential employees;

- (x) Government-mandated fees, such as border crossing fees, levies, or worker welfare funds;
- (xi) Transportation and subsistence costs—
 - (A) While in transit, including, but not limited to, airfare or costs of other modes of transportation, terminal fees, and travel taxes associated with travel from the country of origin to the country of performance and the return journey upon the end of employment; and
 - (B) From the airport or disembarkation point to the worksite;
- (xii) Security deposits, bonds, and insurance; and
- (xiii) Equipment charges.
- (2) A recruitment fee, as described in the introductory text of this definition, is a recruitment fee, regardless of whether the payment is—
 - (i) Paid in property or money;
 - (ii) Deducted from wages;
 - (iii) Paid back in wage or benefit concessions;
 - (iv) Paid back as a kickback, bribe, in-kind payment, free labor, tip, or tribute; or
 - (v) Collected by an employer or a third party, whether licensed or unlicensed, including, but not limited to—
 - (A) Agents;
 - (B) Labor brokers;
 - (C) Recruiters;
 - (D) Staffing firms (including private employment and placement firms);
 - (E) Subsidiaries/affiliates of the employer;

- (F) Any agent or employee of such entities; and
- (G) Subcontractors at all tiers.

Severe forms of trafficking in persons means—

- (1) Sex trafficking in which a commercial sex act is induced by force, fraud, or coercion, or in which the person induced to perform such act has not attained 18 years of age; or
- (2) The recruitment, harboring, transportation, provision, or obtaining of a person for labor or services, through the use of force, fraud, or coercion for the purpose of subjection to involuntary servitude, peonage, debt bondage, or slavery.

Sex trafficking means the recruitment, harboring, transportation, provision, or obtaining of a person for the purpose of a commercial sex act.

Subcontract means any contract entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract.

Subcontractor means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime contractor or another subcontractor.

United States means the 50 States, the District of Columbia, and outlying areas.

- (b) *Policy.* The United States Government has adopted a policy prohibiting trafficking in persons including the trafficking-related activities of this clause. Contractors, contractor employees, and their agents shall not—
 - (1) Engage in severe forms of trafficking in persons during the period of performance of the contract;
 - (2) Procure commercial sex acts during the period of performance of the contract;
 - (3) Use forced labor in the performance of the contract;
 - (4) Destroy, conceal, confiscate, or otherwise deny access by an employee to the employee's identity or immigration documents, such as passports or drivers' licenses, regardless of issuing authority;
 - (5) (i) Use misleading or fraudulent practices during the recruitment of employees or offering of employment, such as failing to disclose, in a format and language understood by the employee or potential employee, basic information or making material misrepresentations

during the recruitment of employees regarding the key terms and conditions of employment, including wages and fringe benefits, the location of work, the living conditions, housing and associated costs (if employer or agent provided or arranged), any significant costs to be charged to the employee or potential employee, and, if applicable, the hazardous nature of the work;

- (ii) Use recruiters that do not comply with local labor laws of the country in which the recruiting takes place;
- (6) Charge employees or potential employees recruitment fees;
- (7)
 - (i) Fail to provide return transportation or pay for the cost of return transportation upon the end of employment—
 - (A) For an employee who is not a national of the country in which the work is taking place and who was brought into that country for the purpose of working on a U.S. Government contract or subcontract (for portions of contracts performed outside the United States); or
 - (B) For an employee who is not a United States national and who was brought into the United States for the purpose of working on a U.S. Government contract or subcontract, if the payment of such costs is required under existing temporary worker programs or pursuant to a written agreement with the employee (for portions of contracts performed inside the United States); except that—
 - (ii) The requirements of paragraphs (b)(7)(i) of this clause shall not apply to an employee who is—
 - (A) Legally permitted to remain in the country of employment and who chooses to do so; or
 - (B) Exempted by an authorized official of the contracting agency from the requirement to provide return transportation or pay for the cost of return transportation;
 - (iii) The requirements of paragraph (b)(7)(i) of this clause are modified for a victim of trafficking in persons who is seeking victim services or legal redress in the country of employment, or for a witness in an enforcement action related to trafficking in persons. The contractor shall provide the return transportation or pay the cost of return transportation in a way that does not obstruct the victim services, legal redress, or witness activity. For example, the contractor shall

not only offer return transportation to a witness at a time when the witness is still needed to testify. This paragraph does not apply when the exemptions at paragraph (b)(7)(ii) of this clause apply.

- (8) Provide or arrange housing that fails to meet the host country housing and safety standards; or
 - (9) If required by law or contract, fail to provide an employment contract, recruitment agreement, or other required work document in writing. Such written work document shall be in a language the employee understands. If the employee must relocate to perform the work, the work document shall be provided to the employee at least five days prior to the employee relocating. The employee's work document shall include, but is not limited to, details about work description, wages, prohibition on charging recruitment fees, work location(s), living accommodations and associated costs, time off, roundtrip transportation arrangements, grievance process, and the content of applicable laws and regulations that prohibit trafficking in persons.
- (c) *Contractor requirements.* The Contractor shall—
- (1) Notify its employees and agents of—
 - (i) The United States Government's policy prohibiting trafficking in persons, described in paragraph (b) of this clause; and
 - (ii) The actions that will be taken against employees or agents for violations of this policy. Such actions for employees may include, but are not limited to, removal from the contract, reduction in benefits, or termination of employment; and
 - (2) Take appropriate action, up to and including termination, against employees, agents, or subcontractors that violate the policy in paragraph (b) of this clause.
- (d) *Notification.* (1) The Contractor shall inform the Contracting Officer and the agency Inspector General immediately of—
- (i) Any credible information it receives from any source (including host country law enforcement) that alleges a Contractor employee, subcontractor, subcontractor employee, or their agent has engaged in conduct that violates the policy in paragraph (b) of this clause (see also 18 U.S.C. 1351, Fraud in Foreign Labor Contracting, and 52.203-13(b)(3)(i)(A), if that clause is included in the solicitation or contract, which requires disclosure to the agency Office of the

Inspector General when the Contractor has credible evidence of fraud); and

- (ii) Any actions taken against a Contractor employee, subcontractor, subcontractor employee, or their agent pursuant to this clause.
- (2) If the allegation may be associated with more than one contract, the Contractor shall inform the contracting officer for the contract with the highest dollar value.
- (e) *Remedies.* In addition to other remedies available to the Government, the Contractor's failure to comply with the requirements of paragraphs (c), (d), (g), (h), or (i) of this clause may result in—
 - (1) Requiring the Contractor to remove a Contractor employee or employees from the performance of the contract;
 - (2) Requiring the Contractor to terminate a subcontract;
 - (3) Suspension of contract payments until the Contractor has taken appropriate remedial action;
 - (4) Loss of award fee, consistent with the award fee plan, for the performance period in which the Government determined Contractor non-compliance;
 - (5) Declining to exercise available options under the contract;
 - (6) Termination of the contract for default or cause, in accordance with the termination clause of this contract; or
 - (7) Suspension or debarment.
- (f) *Mitigating and aggravating factors.* When determining remedies, the Contracting Officer may consider the following:
 - (1) Mitigating factors. The Contractor had a Trafficking in Persons compliance plan or an awareness program at the time of the violation, was in compliance with the plan, and has taken appropriate remedial actions for the violation, that may include reparation to victims for such violations.
 - (2) Aggravating factors. The Contractor failed to abate an alleged violation or enforce the requirements of a compliance plan, when directed by the Contracting Officer to do so.

- (g) Full cooperation. (1) The Contractor shall, at a minimum—
- (i) Disclose to the agency Inspector General information sufficient to identify the nature and extent of an offense and the individuals responsible for the conduct;
 - (ii) Provide timely and complete responses to Government auditors' and investigators' requests for documents;
 - (iii) Cooperate fully in providing reasonable access to its facilities and staff (both inside and outside the U.S.) to allow contracting agencies and other responsible Federal agencies to conduct audits, investigations, or other actions to ascertain compliance with the Trafficking Victims Protection Act of 2000 (22 U.S.C. chapter 78), E.O. 13627, or any other applicable law or regulation establishing restrictions on trafficking in persons, the procurement of commercial sex acts, or the use of forced labor; and
 - (iv) Protect all employees suspected of being victims of or witnesses to prohibited activities, prior to returning to the country from which the employee was recruited, and shall not prevent or hinder the ability of these employees from cooperating fully with Government authorities.
- (2) The requirement for full cooperation does not foreclose any Contractor rights arising in law, the FAR, or the terms of the contract. It does not—
- (i) Require the Contractor to waive its attorney-client privilege or the protections afforded by the attorney work product doctrine;
 - (ii) Require any officer, director, owner, employee, or agent of the Contractor, including a sole proprietor, to waive his or her attorney client privilege or Fifth Amendment rights; or
 - (iii) Restrict the Contractor from—
 - (A) Conducting an internal investigation; or
 - (B) Defending a proceeding or dispute arising under the contract or related to a potential or disclosed violation.
- (h) Compliance plan. (1) This paragraph (h) applies to any portion of the contract that—

- (i) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and
 - (ii) Has an estimated value that exceeds \$500,000.
- (2) The Contractor shall maintain a compliance plan during the performance of the contract that is appropriate—
 - (i) To the size and complexity of the contract; and
 - (ii) To the nature and scope of the activities to be performed for the Government, including the number of non-United States citizens expected to be employed and the risk that the contract or subcontract will involve services or supplies susceptible to trafficking in persons.
- (3) Minimum requirements. The compliance plan must include, at a minimum, the following:
 - (i) An awareness program to inform contractor employees about the Government's policy prohibiting trafficking-related activities described in paragraph (b) of this clause, the activities prohibited, and the actions that will be taken against the employee for violations. Additional information about Trafficking in Persons and examples of awareness programs can be found at the Web site for the Department of State's Office to Monitor and Combat Trafficking in Persons at <http://www.state.gov/j/tip/>.
 - (ii) A process for employees to report, without fear of retaliation, activity inconsistent with the policy prohibiting trafficking in persons, including a means to make available to all employees the hotline phone number of the Global Human Trafficking Hotline at 1-844-888-FREE and its email address at help@befree.org.
 - (iii) A recruitment and wage plan that only permits the use of recruitment companies with trained employees, prohibits charging recruitment fees to the employee or potential employee, and ensures that wages meet applicable host-country legal requirements or explains any variance.
 - (iv) A housing plan, if the Contractor or subcontractor intends to provide or arrange housing, that ensures that the housing meets host-country housing and safety standards.

- (v) Procedures to prevent agents and subcontractors at any tier and at any dollar value from engaging in trafficking in persons (including activities in paragraph (b) of this clause) and to monitor, detect, and terminate any agents, subcontracts, or subcontractor employees that have engaged in such activities.
- (4) Posting. (i) The Contractor shall post the relevant contents of the compliance plan, no later than the initiation of contract performance, at the workplace (unless the work is to be performed in the field or not in a fixed location) and on the Contractor's Web site (if one is maintained). If posting at the workplace or on the Web site is impracticable, the Contractor shall provide the relevant contents of the compliance plan to each worker in writing.
 - (ii) The Contractor shall provide the compliance plan to the Contracting Officer upon request.
- (5) Certification. Annually after receiving an award, the Contractor shall submit a certification to the Contracting Officer that—
 - (i) It has implemented a compliance plan to prevent any prohibited activities identified at paragraph (b) of this clause and to monitor, detect, and terminate any agent, subcontract or subcontractor employee engaging in prohibited activities; and
 - (ii) After having conducted due diligence, either—
 - (A) To the best of the Contractor's knowledge and belief, neither it nor any of its agents, subcontractors, or their agents is engaged in any such activities; or
 - (B) If abuses relating to any of the prohibited activities identified in paragraph (b) of this clause have been found, the Contractor or subcontractor has taken the appropriate remedial and referral actions.
- (i) Subcontracts. (1) The Contractor shall include the substance of this clause, including this paragraph (i), in all subcontracts and in all contracts with agents. The requirements in paragraph (h) of this clause apply only to any portion of the subcontract that—
 - (A) Is for supplies, other than commercially available off-the-shelf items, acquired outside the United States, or services to be performed outside the United States; and
 - (B) Has an estimated value that exceeds \$500,000.

- (2) If any subcontractor is required by this clause to submit a certification, the Contractor shall require submission prior to the award of the subcontract and annually thereafter. The certification shall cover the items in paragraph (h)(5) of this clause.

I.50 - FAR 52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (OCT 2015)
(PREV. I.127)

- (a) *Definitions.* As used in this clause—

Commercially available off-the-shelf (COTS) item—

- (1) Means any item of supply that is—
- (i) A commercial item (as defined in paragraph (1) of the definition at 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4) such as agricultural products and petroleum products. Per 46 CFR 525.1(c)(2), “bulk cargo” means cargo that is loaded and carried in bulk onboard ship without mark or count, in a loose unpackaged form, having homogenous characteristics. Bulk cargo loaded into intermodal equipment, except LASH or Seabee barges, is subject to mark and count and, therefore, ceases to be bulk cargo.

Employee assigned to the contract means an employee who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), who is directly performing work, in the United States, under a contract that is required to include the clause prescribed at 22.1803. An employee is not considered to be directly performing work under a contract if the employee—

- (1) Normally performs support work, such as indirect or overhead functions; and
- (2) Does not perform any substantial duties applicable to the contract.

Subcontract means any contract, as defined in 2.101, entered into by a subcontractor to furnish supplies or services for performance of a prime contract or a subcontract. It includes but is not limited to purchase orders, and changes and modifications to purchase orders.

Subcontractor means any supplier, distributor, vendor, or firm that furnishes supplies or services to or for a prime Contractor or another subcontractor.

United States, as defined in 8 U.S.C. 1101(a)(38), means the 50 States, the District of Columbia, Puerto Rico, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands.

(b) *Enrollment and verification requirements.*

- (1) If the Contractor is not enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall—
 - (i) *Enroll.* Enroll as a Federal Contractor in the E-Verify program within 30 calendar days of contract award;
 - (ii) *Verify all new employees.* Within 90 calendar days of enrollment in the E-Verify program, begin to use E-Verify to initiate verification of employment eligibility of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); and
 - (iii) *Verify employees assigned to the contract.* For each employee assigned to the contract, initiate verification within 90 calendar days after date of enrollment or within 30 calendar days of the employee's assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (2) If the Contractor is enrolled as a Federal Contractor in E-Verify at time of contract award, the Contractor shall use E-Verify to initiate verification of employment eligibility of—
 - (i) *All new employees.*
 - (A) *Enrolled 90 calendar days or more.* The Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or
 - (B) *Enrolled less than 90 calendar days.* Within 90 calendar days after enrollment as a Federal Contractor in E-Verify, the Contractor shall initiate verification of all new hires of the Contractor, who are working in the United States, whether or not assigned to the contract, within 3 business days after the date of hire (but see paragraph (b)(3) of this section); or

- (ii) *Employees assigned to the contract.* For each employee assigned to the contract, the Contractor shall initiate verification within 90 calendar days after date of contract award or within 30 days after assignment to the contract, whichever date is later (but see paragraph (b)(4) of this section).
- (3) If the Contractor is an institution of higher education (as defined at 20 U.S.C. 1001(a)); a State or local government or the government of a Federally recognized Indian tribe; or a surety performing under a takeover agreement entered into with a Federal agency pursuant to a performance bond, the Contractor may choose to verify only employees assigned to the contract, whether existing employees or new hires. The Contractor shall follow the applicable verification requirements at (b)(1) or (b)(2), respectively, except that any requirement for verification of new employees applies only to new employees assigned to the contract.
- (4) *Option to verify employment eligibility of all employees.* The Contractor may elect to verify all existing employees hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), rather than just those employees assigned to the contract. The Contractor shall initiate verification for each existing employee working in the United States who was hired after November 6, 1986 (after November 27, 2009, in the Commonwealth of the Northern Mariana Islands), within 180 calendar days of—
 - (i) Enrollment in the E-Verify program; or
 - (ii) Notification to E-Verify Operations of the Contractor's decision to exercise this option, using the contact information provided in the E-Verify program Memorandum of Understanding (MOU).
- (5) The Contractor shall comply, for the period of performance of this contract, with the requirement of the E-Verify program MOU.
 - (i) The Department of Homeland Security (DHS) or the Social Security Administration (SSA) may terminate the Contractor's MOU and deny access to the E-Verify system in accordance with the terms of the MOU. In such case, the Contractor will be referred to a suspension or debarment official.
 - (ii) During the period between termination of the MOU and a decision by the suspension or debarment official whether to suspend or debar, the Contractor is excused from its obligations under paragraph (b) of this clause. If the suspension or debarment official determines not to suspend or debar the Contractor, then the Contractor must reenroll in E-Verify.

- (c) *Web site.* Information on registration for and use of the E-Verify program can be obtained via the Internet at the Department of Homeland Security Web site: <http://www.dhs.gov/E-Verify>.
- (d) *Individuals previously verified.* The Contractor is not required by this clause to perform additional employment verification using E-Verify for any employee—
 - (1) Whose employment eligibility was previously verified by the Contractor through the E-Verify program;
 - (2) Who has been granted and holds an active U.S. Government security clearance for access to confidential, secret, or top secret information in accordance with the National Industrial Security Program Operating Manual; or
 - (3) Who has undergone a completed background investigation and been issued credentials pursuant to Homeland Security Presidential Directive (HSPD) -12, Policy for a Common Identification Standard for Federal Employees and Contractors.
- (e) *Subcontracts.* The contractor shall include the requirements of this clause, including this paragraph (e) (appropriately modified for identification of the parties), in each subcontract that—
 - (1) *Is for—*
 - (i) Commercial or noncommercial services (except for commercial services that are part of the purchase of a COTS item (or an item that would be a COTS item, but for minor modifications), performed by the COTS provider, and are normally provided for that COTS item); or
 - (ii) Construction;
 - (2) Has a value of more than \$3,500; and
 - (3) Includes work performed in the United States.

I.51 - FAR 52.223-2 AFFIRMATIVE PROCUREMENT OF BIOBASED PRODUCTS UNDER SERVICE AND CONSTRUCTION CONTRACTS (SEP 2013) (PREV. I.132)

- (a) In the performance of this contract, the contractor shall make maximum use of biobased products that are United States Department of Agriculture (USDA)-designated items unless—

- (1) The product cannot be acquired—
 - (i) Competitively within a time frame providing for compliance with the contract performance schedule;
 - (ii) Meeting contract performance requirements; or
 - (iii) At a reasonable price.
 - (2) The product is to be used in an application covered by a USDA categorical exemption (see 7 CFR 3201.3(e)). For example, all USDA-designated items are exempt from the preferred procurement requirement for the following:
 - (i) Spacecraft system and launch support equipment.
 - (ii) Military equipment, i.e., a product or system designed or procured for combat or combat-related missions.
- (b) Information about this requirement and these products is available at <http://www.biopreferred.gov>.
- (c) In the performance of this contract, the Contractor shall—
- (1) Report to <http://www.sam.gov>, with a copy to the Contracting Officer, on the product types and dollar value of any USDA-designated biobased products purchased by the Contractor during the previous Government fiscal year, between October 1 and September 30; and
 - (2) Submit this report no later than—
 - (i) October 31 of each year during contract performance; and
 - (ii) At the end of contract performance.

I.52 - FAR 52.223-3 HAZARDOUS MATERIAL IDENTIFICATION AND MATERIAL SAFETY DATA (JAN 1997) (ALTERNATE I) (JULY 1995) (PREV. I.28A)

- (a) Hazardous material, as used in this clause, includes any material defined as hazardous under the latest version of Federal Standard No. 313 (including revisions adopted during the term of the contract).
- (b) The offeror must list any hazardous material, as defined in paragraph (a) of this clause, to be delivered under this contract. The hazardous material shall be properly identified and include any applicable identification number, such as

National Stock Number or Special Item Number. This information shall also be included on the Material Safety Data Sheet submitted under this contract.

Material (If none, insert "None")	Identification No.
None	

- (c) This list must be updated during performance of the contract whenever the Contractor determines that any other material to be delivered under this contract is hazardous.
- (d) The apparently successful offeror agrees to submit, for each item as required prior to award, a Material Safety Data Sheet, meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous material identified in paragraph (b) of this clause. Data shall be submitted in accordance with Federal Standard No. 313, whether or not the apparently successful offeror is the actual manufacturer of these items. Failure to submit the Material Safety Data Sheet prior to award may result in the apparently successful offeror being considered nonresponsible and ineligible for award.
- (e) If, after award, there is a change in the composition of the item(s) or a revision to Federal Standard No. 313, which renders incomplete or inaccurate the data submitted under paragraph (d) of this clause, the Contractor shall promptly notify the Contracting Officer and resubmit the data.
- (f) Neither the requirements of this clause nor any act or failure to act by the Government shall relieve the Contractor of any responsibility or liability for the safety of Government, Contractor, or subcontractor personnel or property.
- (g) Nothing contained in this clause shall relieve the Contractor from complying with applicable Federal, State, and local laws, codes, ordinances, and regulations (including the obtaining of licenses and permits) in connection with hazardous material.
- (h) The Government's rights in data furnished under this contract with respect to hazardous material are as follows:
 - (1) To use, duplicate and disclose any data to which this clause is applicable. The purposes of this right are to-
 - (i) Apprise personnel of the hazards to which they may be exposed in using, handling, packaging, transporting, or disposing of hazardous materials;

- (ii) Obtain medical treatment for those affected by the material; and
 - (iii) Have others use, duplicate, and disclose the data for the Government for these purposes.
- (2) To use, duplicate, and disclose data furnished under this clause, in accordance with subparagraph (h)(1) of this clause, in precedence over any other clause of this contract providing for rights in data.
- (3) The Government is not precluded from using similar or identical data acquired from other sources.
- (i) Except as provided in paragraph (i)(2), the Contractor shall prepare and submit a sufficient number of Material Safety Data Sheets (MSDS's), meeting the requirements of 29 CFR 1910.1200(g) and the latest version of Federal Standard No. 313, for all hazardous materials identified in paragraph (b) of this clause.
 - (1) For items shipped to consignees, the Contractor shall include a copy of the MSDS's with the packing list or other suitable shipping document which accompanies each shipment. Alternatively, the Contractor is permitted to transmit MSDS's to consignees in advance of receipt of shipments by consignees, if authorized in writing by the Contracting Officer.
 - (2) For items shipped to consignees identified by mailing address as agency depots, distribution centers or customer supply centers, the Contractor shall provide one copy of the MSDS's in or on each shipping container. If affixed to the outside of each container, the MSDS's must be placed in a weather resistant envelope.

I.53 - FAR 52.223-5 POLLUTION PREVENTION AND RIGHT-TO-KNOW
INFORMATION (MAY 2011) ALTERNATE I (MAY 2011) (PREV. I.29)

- (a) *Definitions.* As used in this clause—
Toxic chemical means a chemical or chemical category listed in 40 CFR 372.65.
- (b) Federal facilities are required to comply with the provisions of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001-11050), and the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101-13109).
- (c) The Contractor shall provide all information needed by the Federal facility to comply with the following:

- (1) The emergency planning reporting requirements of Section 302 of EPCRA.
- (2) The emergency notice requirements of Section 304 of EPCRA.
- (3) The list of Material Safety Data Sheets, required by Section 311 of EPCRA.
- (4) The emergency and hazardous chemical inventory forms of Section 312 of EPCRA.
- (5) The toxic chemical release inventory of Section 313 of EPCRA, which includes the reduction and recycling information required by Section 6607 of PPA.
- (6) The toxic chemical and hazardous substance release and use reduction goals of section 2(e) of Executive Order 13423 and of Executive Order 13514.
- (7) The environmental management system as described in section 3(b) of E.O. 13423 and 2(j) of E.O. 13514.

I.54 - FAR 52.223-9 ESTIMATE OF PERCENTAGE OF RECOVERED MATERIAL
CONTENT FOR EPA DESIGNATED ITEMS (MAY 2008) (PREV. I.29B)

- (a) *Definitions.* As used in this clause—

Postconsumer material means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of “recovered material.”

Recovered material means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

- (b) The Contractor, on completion of this contract, shall—
- (1) Estimate the percentage of the total recovered material content for EPA - designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of post-consumer material content; and
 - (2) Submit this estimate to the Contracting Officer.

I.55 - FAR 52.223-10 WASTE REDUCTION PROGRAM (MAY 2011) (PREV. I.29C)

- (a) *Definitions.* As used in this clause—
Recycling means the series of activities, including collection, separation, and processing, by which products or other materials are recovered from the solid waste stream for use in the form of raw materials in the manufacture of products other than fuel for producing heat or power by combustion.

Waste prevention means any change in the design, manufacturing, purchase, or use of materials or products (including packaging) to reduce their amount or toxicity before they are discarded. Waste prevention also refers to the reuse of products or materials.

Waste reduction means preventing or decreasing the amount of waste being generated through waste prevention, recycling, or purchasing recycled and environmentally preferable products.

- (b) Consistent with the requirements of section 3(e) of Executive Order 13423, the Contractor shall establish a program to promote cost-effective waste reduction in all operations and facilities covered by this contract. The Contractor's programs shall comply with applicable Federal, State, and local requirements, specifically including Section 6002 of the Resource Conservation and Recovery Act (42 U.S.C. 6962, et seq.) and implementing regulations (40 CFR Part 247).

I.56 - FAR 52.223-11 OZONE-DEPLETING SUBSTANCES AND HIGH GLOBAL WARMING POTENTIAL HYDROFLUOROCARBONS (JUN 2016) (PREV. I.29D)

- (a) *Definitions.* As used in this clause--

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables of alternatives available at (<http://www.epa.gov/snap/>).

Hydrofluorocarbons means compounds that only contain hydrogen, fluorine, and carbon.

Ozone-depleting substance means any substance the Environmental Protection Agency designates in 40 CFR part 82 as—

- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
 - (2) Class II, including, but not limited to, hydrochlorofluorocarbons.
- (b) The Contractor shall label products that contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), (d), and (e) and 40 CFR part 82, subpart E, as follows:

Warning: Contains (or manufactured with, if applicable) *_____, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

* The Contractor shall insert the name of the substance(s).

- (c) *Reporting.* For equipment and appliances that normally each contain 50 or more pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons, the Contractor shall—
- (1) Track on an annual basis, between October 1 and September 30, the amount in pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons contained in the equipment and appliances delivered to the Government under this contract by--
 - (i) Type of hydrofluorocarbon (e.g., HFC-134a, HFC-125, R-410A, R-404A, etc.);
 - (ii) Contract number; and
 - (iii) Equipment/appliance;
 - (2) Report that information to the Contracting Officer for FY16 and to www.sam.gov, for FY17 and after--
 - (i) Annually by November 30 of each year during contract performance; and
 - (ii) At the end of contract performance.
- (d) The Contractor shall refer to EPA's SNAP program (available at <http://www.epa.gov/snap>) to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables available at <http://www.epa.gov/snap>.

I.57 - FAR 52.223-12 MAINTENANCE, SERVICE, REPAIR, OR DISPOSAL OF REFRIGERATION EQUIPMENT AND AIR CONDITIONERS (JUN 2016) (PREV. I.30)

- (a) *Definitions.* As used in this clause--

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables of alternatives available at (<http://www.epa.gov/snap/>).

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) The Contractor shall comply with the applicable requirements of sections 608 and 609 of the Clean Air Act (42 U.S.C. 7671g and 7671h) as each or both apply to this contract.
- (c) Unless otherwise specified in the contract, the Contractor shall reduce the use, release, or emissions of high global warming potential hydrofluorocarbons under this contract by—
- (1) Transitioning over time to the use of another acceptable alternative in lieu of high global warming potential hydrofluorocarbons in a particular end use for which EPA's SNAP program has identified other acceptable alternatives that have lower global warming potential.
 - (2) Preventing and repairing refrigerant leaks through service and maintenance during contract performance;
 - (3) Implementing recovery, recycling, and responsible disposal programs that avoid release or emissions during equipment service and as the equipment reaches the end of its useful life; and
 - (4) Using reclaimed hydrofluorocarbons, where feasible.
- (d) For equipment and appliances that normally each contain 50 or more pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons, that will be maintained, serviced, repaired, or disposed under this contract, the Contractor shall--

- (1) Track on an annual basis, between October 1 and September 30, the amount in pounds of hydrofluorocarbons or refrigerant blends containing hydrofluorocarbons added or taken out of equipment or appliances under this contract by--
 - (i) Type of hydrofluorocarbon (e.g., HFC-134a, HFC-125, R-410A, R-404A, etc.);
 - (ii) Contract number;
 - (iii) Equipment/appliance; and
- (2) Report that information to the Contracting Officer for FY16 and to www.sam.gov, for FY17 and after--
 - (i) No later than November 30 of each year during contract performance; and
 - (ii) At the end of contract performance.
- (e) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82, subpart G, with supplemental tables available at <http://www.epa.gov/snap/>.

I.58 - FAR 52.223-13 ACQUISITION OF EPEAT®-REGISTERED IMAGING EQUIPMENT (JUN 2014) (PREV. I.156)

- (a) Definitions. As used in this clause-

Imaging equipment means the following products:

- (1) Copier-A commercially available imaging product with a sole function of the production of hard copy duplicates from graphic hard-copy originals. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as copiers or upgradeable digital copiers (UDCs).
- (2) Digital duplicator-A commercially available imaging product that is sold in the market as a fully automated duplicator system through the method of stencil duplicating with digital reproduction functionality. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as digital duplicators.

- (3) Facsimile machine (fax machine)-A commercially available imaging product whose primary functions are scanning hard-copy originals for electronic transmission to remote units and receiving similar electronic transmissions to produce hard-copy output. Electronic transmission is primarily over a public telephone system but also may be via computer network or the Internet. The product also may be capable of producing hard copy duplicates. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as fax machines.
 - (4) Mailing machine-A commercially available imaging product that serves to print postage onto mail pieces. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as mailing machines.
 - (5) Multifunction device (MFD)-A commercially available imaging product, which is a physically integrated device or a combination of functionally integrated components, that performs two or more of the core functions of copying, printing, scanning, or faxing. The copy functionality as addressed in this definition is considered to be distinct from single-sheet convenience copying offered by fax machines. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as MFDs or multifunction products.
 - (6) Printer-A commercially available imaging product that serves as a hard-copy output device and is capable of receiving information from single-user or networked computers, or other input devices (e.g., digital cameras). The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as printers, including printers that can be upgraded into MFDs in the field.
 - (7) Scanner-A commercially available imaging product that functions as an electro-optical device for converting information into electronic images that can be stored, edited, converted, or transmitted, primarily in a personal computing environment. The unit is capable of being powered from a wall outlet or from a data or network connection. This definition is intended to cover products that are marketed as scanners.
- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only imaging equipment that, at the time of submission of proposals and at the time of award, was EPEAT® bronze-registered or higher.
 - (c) For information about EPEAT®, see www.epa.gov/epeat/.

I.59 - FAR 52.223-14 ACQUISITION OF EPEAT®-REGISTERED TELEVISIONS (JUN 2014) (PREV. I.157)

- (a) Definitions. As used in this clause-

Television or "TV" means a commercially available electronic product designed primarily for the reception and display of audiovisual signals received from terrestrial, cable, satellite, Internet Protocol TV (IPTV), or other digital or analog sources. A TV consists of a tuner/receiver and a display encased in a single enclosure. The product usually relies upon a cathode-ray tube (CRT), liquid crystal display (LCD), plasma display, or other display technology. Televisions with computer capability (e.g., computer input port) may be considered to be a TV as long as they are marketed and sold to consumers primarily as televisions.

- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only televisions that, at the time of submission of proposals and at the time of award, were EPEAT® bronze-registered or higher.
- (c) For information about EPEAT®, see www.epa.gov/epeat/.

I.60 - FAR 52.223-15 ENERGY EFFICIENCY IN ENERGY-CONSUMING PRODUCTS (DEC 2007) (PREV. I.122)

- (a) *Definition.* As used in this clause—

Energy-efficient product —

- (1) Means a product that—
- (i) Meets Department of Energy and Environmental Protection Agency criteria for use of the Energy Star trademark label; or
 - (ii) Is in the upper 25 percent of efficiency for all similar products as designated by the Department of Energy's Federal Energy Management Program.
- (2) The term "product" does not include any energy-consuming product or system designed or procured for combat or combat-related missions (42 U.S.C. 8259b).
- (b) The Contractor shall ensure that energy-consuming products are energy efficient products (i.e., ENERGY STAR® products or FEMP-designated products) at the time of contract award, for products that are—

- (1) Delivered;
 - (2) Acquired by the Contractor for use in performing services at a Federally-controlled facility;
 - (3) Furnished by the Contractor for use by the Government; or
 - (4) Specified in the design of a building or work, or incorporated during its construction, renovation, or maintenance.
- (c) The requirements of paragraph (b) apply to the Contractor (including any subcontractor) unless—
- (1) The energy-consuming product is not listed in the ENERGY STAR® Program or FEMP; or
 - (2) Otherwise approved in writing by the Contracting Officer.
- (d) Information about these products is available for—
- (1) ENERGY STAR® at <http://www.energystar.gov/products>; and
 - (2) FEMP at http://www1.eere.energy.gov/femp/procurement/eep_requirements.html.

I.61 - FAR 52.223-16 ACQUISITION OF EPEAT®-REGISTERED PERSONAL COMPUTER PRODUCTS (OCT 2015) (PREV. I.123)

- (a) *Definitions.* As used in this clause—

Computer means a device that performs logical operations and processes data. Computers are composed of, at a minimum:

- (1) A central processing unit (CPU) to perform operations;
- (2) User input devices such as a keyboard, mouse, digitizer, or game controller; and
- (3) A computer display screen to output information. Computers include both stationary and portable units, including desktop computers, integrated desktop computers, notebook computers, thin clients, and workstations. Although computers must be capable of using input devices and computer displays, as noted in (2) and (3) above, computer systems do not need to include these devices on shipment to meet this definition. This definition

does not include server computers, gaming consoles, mobile telephones, portable hand-held calculators, portable digital assistants (PDAs), MP3 players, or any other mobile computing device with displays less than 4 inches, measured diagonally.

Computer display means a display screen and its associated electronics encased in a single housing or within the computer housing (e.g., notebook or integrated desktop computer) that is capable of displaying output information from a computer via one or more inputs such as a VGA, DVI, USB, DisplayPort, and/or IEEE 1394-2008™, Standard for High Performance Serial Bus. Examples of computer display technologies are the cathode-ray tube (CRT) and liquid crystal display (LCD).

Desktop computer means a computer where the main unit is intended to be located in a permanent location, often on a desk or on the floor. Desktops are not designed for portability and utilize an external computer display, keyboard, and mouse. Desktops are designed for a broad range of home and office applications.

Integrated desktop computer means a desktop system in which the computer and computer display function as a single unit that receives its AC power through a single cable. Integrated desktop computers come in one of two possible forms:

- (1) A system where the computer display and computer are physically combined into a single unit; or
- (2) A system packaged as a single system where the computer display is separate but is connected to the main chassis by a DC power cord and both the computer and computer display are powered from a single power supply. As a subset of desktop computers, integrated desktop computers are typically designed to provide similar functionality as desktop systems.

Notebook computer means a computer designed specifically for portability and to be operated for extended periods of time either with or without a direct connection to an AC power source. Notebooks must utilize an integrated computer display and be capable of operation off of an integrated battery or other portable power source. In addition, most notebooks use an external power supply and have an integrated keyboard and pointing device. Notebook computers are typically designed to provide similar functionality to desktops, including operation of software similar in functionality to that used in desktops. Docking stations are considered accessories for notebook computers, not notebook computers. Tablet PCs, which may use touch-sensitive screens along with, or instead of, other input devices, are considered notebook computers.

Personal computer product means a computer, computer display, desktop computer, integrated desktop computer, or notebook computer.

- (b) Under this contract, the Contractor shall deliver, furnish for Government use, or furnish for Contractor use at a Federally controlled facility, only personal computer products that, at the time of submission of proposals and at the time of award, were EPEAT® bronze -registered or higher.
- (c) For information about EPEAT®, see www.epa.gov/epeat.

I.62 - FAR 52.223-17 AFFIRMATIVE PROCUREMENT OF EPA-DESIGNATED ITEMS IN SERVICE AND CONSTRUCTION CONTRACTS (AUG 2018) (PREV. I.133)

- (a) In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 - (1) Competitively within a timeframe providing for compliance with the contract performance schedule;
 - (2) Meeting contract performance requirements; or
 - (3) At a reasonable price.
- (b) Information about this requirement is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>. The list of EPA-designated items is available at <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.

I.63 - FAR 52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011) (PREV. I.148)

- (a) *Definitions.* As used in this clause—

Driving —

- (1) Means operating a motor vehicle on an active roadway with the motor running, including while temporarily stationary because of traffic, a traffic light, stop sign, or otherwise.
- (2) Does not include operating a motor vehicle with or without the motor running when one has pulled over to the side of, or off, an active roadway and has halted in a location where one can safely remain stationary.

Text messaging means reading from or entering data into any handheld or other electronic device, including for the purpose of short message service texting, e-mailing, instant messaging, obtaining navigational information, or engaging in any other form of electronic data retrieval or electronic data communication. The term does not include glancing at or listening to a navigational device that is secured in a commercially designed holder affixed to the vehicle, provided that the destination and route are programmed into the device either before driving or while stopped in a location off the roadway where it is safe and legal to park.

- (b) This clause implements Executive Order 13513, Federal Leadership on Reducing Text Messaging While Driving, dated October 1, 2009.
- (c) The Contractor is encouraged to—
 - (1) Adopt and enforce policies that ban text messaging while driving—
 - (i) Company-owned or -rented vehicles or Government- owned vehicles; or
 - (ii) Privately-owned vehicles when on official Government business or when performing any work for or on behalf of the Government.
 - (2) Conduct initiatives in a manner commensurate with the size of the business, such as—
 - (i) Establishment of new rules and programs or reevaluation of existing programs to prohibit text messaging while driving; and
 - (ii) Education, awareness, and other outreach to employees about the safety risks associated with texting while driving.
- (d) *Subcontracts.* The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts that exceed the micro-purchase threshold.

I.64 - FAR 52.223-19 COMPLIANCE WITH ENVIRONMENTAL MANAGEMENT SYSTEMS (MAY 2011) (PREV. I.145)

The Contractor's work under this contract shall conform with all operational controls identified in the applicable agency or facility Environmental Management Systems and provide monitoring and measurement information necessary for the Government to address environmental performance relative to the goals of the Environmental Management Systems.

I.65 - FAR 52.223-20 AEROSOLS (JUN 2016) (PREV. I.161)

(a) *Definitions.* As used in this clause—

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy (SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables of alternatives available at <http://www.epa.gov/snap/>.

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) Unless otherwise specified in the contract, the Contractor shall reduce its use, release, or emissions of high global warming potential hydrofluorocarbons, when feasible, from aerosol propellants or solvents under this contract. When determining feasibility of using a particular alternative, the Contractor shall consider environmental, technical, and economic factors such as—
- (1) In-use emission rates, energy efficiency;
 - (2) Safety, such as flammability or toxicity;
 - (3) Ability to meet technical performance requirements; and
 - (4) Commercial availability at a reasonable cost.
- (c) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables available at <http://www.epa.gov/snap/>.

I.66 - FAR 52.223-21 FOAMS (JUN 2016) (PREV. I.162)

(a) *Definitions.* As used in this clause—

Global warming potential means how much a given mass of a chemical contributes to global warming over a given time period compared to the same mass of carbon dioxide. Carbon dioxide's global warming potential is defined as 1.0.

High global warming potential hydrofluorocarbons means any hydrofluorocarbons in a particular end use for which EPA's Significant New Alternatives Policy

(SNAP) program has identified other acceptable alternatives that have lower global warming potential. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables of alternatives available at <http://www.epa.gov/snap/>.

Hydrofluorocarbons means compounds that contain only hydrogen, fluorine, and carbon.

- (b) Unless otherwise specified in the contract, the Contractor shall reduce its use, release, and emissions of high global warming potential hydrofluorocarbons and refrigerant blends containing hydrofluorocarbons, when feasible, from foam blowing agents, under this contract. When determining feasibility of using a particular alternative, the Contractor shall consider environmental, technical, and economic factors such as—
 - (1) In-use emission rates, energy efficiency, and safety;
 - (2) Ability to meet performance requirements; and
 - (3) Commercial availability at a reasonable cost.
- (c) The Contractor shall refer to EPA's SNAP program to identify alternatives. The SNAP list of alternatives is found at 40 CFR part 82 subpart G with supplemental tables available at <http://www.epa.gov/snap/>.

I.67 - FAR 52.224-1 PRIVACY ACT NOTIFICATION (APR 1984) (PREV. I.31)

The Contractor will be required to design, develop, or operate a system of records on individuals to accomplish an agency function subject to the Privacy Act of 1974, Public Law 93-579, December 31, 1974 (5 U.S.C. 552a) and applicable agency regulations. Violation of the Act may involve the imposition of criminal penalties.

I.68 - FAR 52.224-2 PRIVACY ACT (APR 1984) (PREV. I.32)

- (a) The Contractor agrees to:
 - (1) Comply with the Privacy Act of 1974 (the Act) and the agency rules and regulations issued under the Act in the design, development, or operation of any system of records on individuals to accomplish an agency function when the contract specifically identifies:
 - (i) The systems of records; and
 - (ii) The design, development, or operation work that the contractor is to perform;

- (2) Include the Privacy Act notification contained in this contract in every solicitation and resulting subcontract and in every subcontract awarded without a solicitation, when the work statement in the proposed subcontract requires the redesign, development, or operation of a system of records on individuals that is subject to the Act; and
 - (3) Include this clause, including this subparagraph (3), in all subcontracts awarded under this contract which requires the design, development, or operation of such a system of records.
- (b) In the event of violations of the Act, a civil action may be brought against the agency involved when the violation concerns the design, development, or operation of a system of records on individuals to accomplish an agency function, and criminal penalties may be imposed upon the officers or employees of the agency when the violation concerns the operation of a system of records on individuals to accomplish an agency function. For purposes of the Act, when the contract is for the operation of a system of records on individuals to accomplish an agency function, the Contractor is considered to be an employee of the agency.
- (c) (1) *Operation of a system of records*, as used in this clause, means performance of any of the activities associated with maintaining the system of records, including the collection, use, and dissemination of records.
- (2) *Record*, as used in this clause, means any item, collection, or grouping of information about an individual that is maintained by an agency, including but not limited to, education, financial transactions, medical history, and criminal or employment history and that contains the person's name, or the identifying number, symbol, or other identifying particular assigned to the individual, such as a fingerprint or voiceprint or a photograph.
- (3) *System of records on individuals*, as used in this clause, means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.

I.69 - FAR 52.224-3 PRIVACY TRAINING (JAN 2017) (PREV. I.163)

- (a) *Definition.* As used in this clause, "personally identifiable information" means information that can be used to distinguish or trace an individual's identity, either alone or when combined with other information that is linked or linkable to a specific individual. (See *Office of Management and Budget (OMB) Circular A-130, Managing Federal Information as a Strategic Resource*).

- (b) The Contractor shall ensure that initial privacy training, and annual privacy training thereafter, is completed by contractor employees who—
 - (1) Have access to a system of records;
 - (2) Create, collect, use, process, store, maintain, disseminate, disclose, dispose, or otherwise handle personally identifiable information on behalf of an agency; or
 - (3) Design, develop, maintain, or operate a system of records (see also FAR subpart 24.1 and 39.105).
- (c) (1) Privacy training shall address the key elements necessary for ensuring the safeguarding of personally identifiable information or a system of records. The training shall be role-based, provide foundational as well as more advanced levels of training, and have measures in place to test the knowledge level of users. At a minimum, the privacy training shall cover—
 - (i) The provisions of the Privacy Act of 1974 (5 U.S.C. 552a), including penalties for violations of the Act;
 - (ii) The appropriate handling and safeguarding of personally identifiable information;
 - (iii) The authorized and official use of a system of records or any other personally identifiable information;
 - (iv) The restriction on the use of unauthorized equipment to create, collect, use, process, store, maintain, disseminate, disclose, dispose or otherwise access personally identifiable information;
 - (v) The prohibition against the unauthorized use of a system of records or unauthorized disclosure, access, handling, or use of personally identifiable information; and
 - (vi) The procedures to be followed in the event of a suspected or confirmed breach of a system of records or the unauthorized disclosure, access, handling, or use of personally identifiable information (see OMB guidance for Preparing for and Responding to a Breach of Personally Identifiable Information).
- (2) Completion of an agency-developed or agency-conducted training course shall be deemed to satisfy these elements.
- (d) The Contractor shall maintain and, upon request, provide documentation of completion of privacy training to the Contracting Officer.

- (e) The Contractor shall not allow any employee access to a system of records, or permit any employee to create, collect, use, process, store, maintain, disseminate, disclose, dispose or otherwise handle personally identifiable information, or to design, develop, maintain, or operate a system of records unless the employee has completed privacy training, as required by this clause.
- (f) The substance of this clause, including this paragraph (f), shall be included in all subcontracts under this contract, when subcontractor employees will—
 - (1) Have access to a system of records;
 - (2) Create, collect, use, process, store, maintain, disseminate, disclose, dispose, or otherwise handle personally identifiable information; or
 - (3) Design, develop, maintain, or operate a system of records.

I.70 - FAR 52.225-1 BUY AMERICAN – SUPPLIES (MAY 2014) (MODIFIED BY DEAR 970.2570-1) (PREV. I.33)

Definitions. As used in this clause--

Commercially available off-the-shelf (COTS) item—

- (1) Means any item of supply (including construction material) that is—
 - (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Component means an article, material, or supply incorporated directly into an end product.

Cost of components means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or

- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

Domestic end product means—

- (1) An unmanufactured end product mined or produced in the United States;
- (2) An end product manufactured in the United States, if—
 - (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as those that the agency determines are not mined, produced, or manufactured in sufficient and reasonably available commercial quantities of a satisfactory quality are treated as domestic. Scrap generated, collected, and prepared for processing in the United States is considered domestic; or
 - (ii) The end product is a COTS item.

End product means those articles, materials, and supplies to be acquired under the contract for public use.

Foreign end product means an end product other than a domestic end product.

United States means the 50 States, the District of Columbia, and outlying areas.

- (b) 41 U.S.C. chapter 83, Buy American, provides a preference for domestic end products for supplies acquired for use in the United States. In accordance with 41 U.S.C. 1907, the component test of the Buy American statute is waived for an end product that is a COTS item (See 12.505(a)(1)).
- (c) Offerors may obtain from the Contracting Officer a list of foreign articles that the Contracting Officer will treat as domestic for this contract.
- (d) The Contractor shall deliver only domestic end products except to the extent that it specified delivery of foreign end products in the provision of the solicitation entitled “Buy American Certificate.”

I.71 - FAR 52.225-8 DUTY-FREE ENTRY (OCT 2010) (PREV. I.150)

- (a) *Definition.* Customs territory of the United States means the States, the District of Columbia, and Puerto Rico.
- (b) Except as otherwise approved by the Contracting Officer, the Contractor shall not include in the contract price any amount for duties on supplies specifically identified in the Schedule to be accorded duty-free entry.
- (c) Except as provided in paragraph (d) of this clause or elsewhere in this contract, the following procedures apply to supplies not identified in the Schedule to be accorded duty-free entry:
 - (1) The Contractor shall notify the Contracting Officer in writing of any purchase of foreign supplies (including, without limitation, raw materials, components, and intermediate assemblies) in excess of \$15,000 that are to be imported into the customs territory of the United States for delivery to the Government under this contract, either as end products or for incorporation into end products. The Contractor shall furnish the notice to the Contracting Officer at least 20 calendar days before the importation. The notice shall identify the--
 - (i) Foreign supplies;
 - (ii) Estimated amount of duty; and
 - (iii) Country of origin.
 - (2) The Contracting Officer will determine whether any of these supplies should be accorded duty-free entry and will notify the Contractor within 10 calendar days after receipt of the Contractor's notification.
 - (3) Except as otherwise approved by the Contracting Officer, the contract price shall be reduced by (or the allowable cost shall not include) the amount of duty that would be payable if the supplies were not entered duty-free.
- (d) The Contractor is not required to provide the notification under paragraph (c) of this clause for purchases of foreign supplies if--
 - (1) The supplies are identical in nature to items purchased by the Contractor or any subcontractor in connection with its commercial business; and
 - (2) Segregation of these supplies to ensure use only on Government contracts containing duty-free entry provisions is not economical or feasible.

- (e) The Contractor shall claim duty-free entry only for supplies to be delivered to the Government under this contract, either as end products or incorporated into end products, and shall pay duty on supplies, or any portion of them, other than scrap, salvage, or competitive sale authorized by the Contracting Officer, diverted to nongovernmental use.
- (f) The Government will execute any required duty-free entry certificates for supplies to be accorded duty-free entry and will assist the Contractor in obtaining duty-free entry for these supplies.
- (g) Shipping documents for supplies to be accorded duty-free entry shall consign the shipments to the contracting agency in care of the Contractor and shall include the--
 - (1) Delivery address of the Contractor (or contracting agency, if appropriate);
 - (2) Government prime contract number;
 - (3) Identification of carrier;
 - (4) Notation "UNITED STATES GOVERNMENT, _____ [agency], _____ Duty-free entry to be claimed pursuant to Item No(s) _____ [*from Tariff Schedules*] _____, Harmonized Tariff Schedules of the United States. Upon arrival of shipment at port of entry, District Director of Customs, please release shipment under 19 CFR part 142 and notify [*cognizant contract administration office*] for execution of Customs Forms 7501 and 7501-A and any required duty-free entry certificates.";
 - (5) Gross weight in pounds (if freight is based on space tonnage, state cubic feet in addition to gross shipping weight); and
 - (6) Estimated value in United States dollars.
- (h) The Contractor shall instruct the foreign supplier to--
 - (1) Consign the shipment as specified in paragraph (g) of this clause;
 - (2) Mark all packages with the words "UNITED STATES GOVERNMENT" and the title of the contracting agency; and
 - (3) Include with the shipment at least two copies of the bill of lading (or other shipping document) for use by the District Director of Customs at the port of entry.
- (i) The Contractor shall provide written notice to the cognizant contract administration office immediately after notification by the Contracting Officer that

duty-free entry will be accorded foreign supplies or, for duty-free supplies identified in the Schedule, upon award by the Contractor to the overseas supplier. The notice shall identify the--

- (1) Foreign supplies;
 - (2) Country of origin;
 - (3) Contract number; and
 - (4) Scheduled delivery date(s).
- (j) The Contractor shall include the substance of this clause in any subcontract if
- (1) Supplies identified in the Schedule to be accorded duty-free entry will be imported into the customs territory of the United States; or
 - (2) Other foreign supplies in excess of \$15,000 may be imported into the customs territory of the United States.

I.72 - FAR 52.225-9 BUY AMERICAN – CONSTRUCTION MATERIALS (MAY 2014)
(PREV. I.34)

- (a) *Definitions.* As used in this clause--

Commercially available off-the-shelf (COTS) item —

- (1) Means any item of supply (including construction material) that is —
 - (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

Component means an article, material, or supply incorporated directly into a construction material.

Construction material means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

Cost of components means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

Domestic construction material means—

- (1) An unmanufactured construction material mined or produced in the United States;
- (2) A construction material manufactured in the United States, if—
 - (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic; or
 - (ii) The construction material is a COTS item.

Foreign construction material means a construction material other than a domestic construction material.

United States means the 50 States, the District of Columbia, and outlying areas.

(b) *Domestic preference.*

- (1) This clause implements the 41 U.S.C. chapter 83, Buy American, by providing a preference for domestic construction material. In accordance with 41 U.S.C. 1907, the component test of the Buy American statute is waived for construction material that is a COTS item. (See FAR 12.505(a)(2)). The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.
- (2) This requirement does not apply to information technology that is a commercial item or to the construction materials or components listed by the Government as follows:

None.
- (3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that -
 - (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
 - (ii) The application of the restriction of the Buy American statute to a particular construction material would be impracticable or inconsistent with the public interest; or
 - (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) *Request for determination of inapplicability of the Buy American statute.*

- (1) (i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request including--
 - (A) A description of the foreign and domestic construction materials;
 - (B) Unit of measure;
 - (C) Quantity;

- (D) Price;
 - (E) Time of delivery or availability;
 - (F) Location of the construction project;
 - (G) Name and address of the proposed supplier; and
 - (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.
- (ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.
 - (iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
 - (iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.
- (2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.
 - (3) Unless the Government determines that an exception to the Buy American statute applies, use of foreign construction material is noncompliant with the Buy American statute.
- (d) *Data.* To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) *
Item 1			
Foreign construction material			
Domestic construction material			
Item 2			
Foreign construction material			
Domestic construction material			

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[*Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

I.73 - FAR 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUN 2008) (PREV. I.35)

- (a) Except as authorized by the Office of Foreign Assets Control (OFAC) in the Department of the Treasury, the Contractor shall not acquire, for use in the performance of this contract, any supplies or services if any proclamation, Executive order, or statute administered by OFAC, or if OFAC's implementing regulations at 31 CFR Chapter V, would prohibit such a transaction by a person subject to the jurisdiction of the United States.
- (b) Except as authorized by OFAC, most transactions involving Cuba, Iran, and Sudan are prohibited, as are most imports from Burma or North Korea, into the United States or its outlying areas. Lists of entities and individuals subject to economic sanctions are included in OFAC's List of Specially Designated Nationals and Blocked Persons at <http://www.treas.gov/offices/enforcement/ofac/sdn>. More information about these restrictions, as well as updates, is available in the OFAC's regulations at 31 CFR Chapter V and/or on OFAC's website at <http://www.treas.gov/offices/enforcement/ofac>.
- (c) The Contractor shall insert this clause, including this paragraph (c), in all subcontracts.

I.74 - FAR 52.226-1 UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES (JUNE 2000) (PREV. I.164)

- (a) *Definitions.* As used in this clause:

Indian means any person who is a member of any Indian tribe, band, group, pueblo, or community that is recognized by the Federal Government as eligible for services from the Bureau of Indian Affairs (BIA) in accordance with 25 U.S.C. 1452(c) and any "Native" as defined in the Alaska Native Claims Settlement Act (43 U.S.C. 1601).

Indian organization means the governing body of any Indian tribe or entity established or recognized by the governing body of an Indian tribe for the purposes of 25 U.S.C., Chapter 17.

Indian-owned economic enterprise means any Indian-owned (as determined by the Secretary of the Interior) commercial, industrial, or business activity established or organized for the purpose of profit, provided that Indian ownership constitutes not less than 51 percent of the enterprise.

Indian tribe means any Indian tribe, band, group, pueblo, or community, including native villages and native groups (including corporations organized by Kenai, Juneau, Sitka, and Kodiak) as defined in the Alaska Native Claims Settlement Act, that is recognized by the Federal Government as eligible for services from BIA in accordance with 25 U.S.C. 1452(c).

Interested party means a prime contractor or an actual or prospective offeror whose direct economic interest would be affected by the award of a subcontract or by the failure to award a subcontract.

- (b) The Contractor shall use its best efforts to give Indian organizations and Indian-owned economic enterprises (25 U.S.C. 1544) the maximum practicable opportunity to participate in the subcontracts it awards to the fullest extent consistent with efficient performance of its contract.
- (1) The Contracting Officer and the Contractor, acting in good faith, may rely on the representation of an Indian organization or Indian-owned economic enterprise as to its eligibility, unless an interested party challenges its status or the Contracting Officer has independent reason to question that status. In the event of a challenge to the representation of a subcontractor, the Contracting Officer will refer the matter to the—

U.S. Department of the Interior
Bureau of Indian Affairs (BIA)
Attn: Chief, Division of Contracting and Grants
Administration
1849 C Street, NW,
MS-2626-MIB
Washington, DC 20240-4000.

The BIA will determine the eligibility and notify the Contracting Officer. No incentive payment will be made within 50 working days of subcontract

award or while a challenge is pending. If a subcontractor is determined to be an ineligible participant, no incentive payment will be made under the Indian Incentive Program.

- (2) The Contractor may request an adjustment under the Indian Incentive Program to the following:
 - (i) The estimated cost of a cost-type contract.
 - (ii) The target cost of a cost-plus-incentive-fee prime contract.
 - (iii) The target cost and ceiling price of a fixed-price incentive prime contract.
 - (iv) The price of a firm-fixed-price prime contract.
- (3) The amount of the adjustment to the prime contract is 5 percent of the estimated cost, target cost, or firm-fixed-price included in the subcontract initially awarded to the Indian organization or Indian-owned economic enterprise.
- (4) The Contractor has the burden of proving the amount claimed and must assert its request for an adjustment prior to completion of contract performance.
- (c) The Contracting Officer, subject to the terms and conditions of the contract and the availability of funds, will authorize an incentive payment of 5 percent of the amount paid to the subcontractor. The Contracting Officer will seek funding in accordance with agency procedures.

I.75 - FAR 52.227-23 RIGHTS TO PROPOSAL DATA (TECHNICAL) (JUN 1987)
(PREV. I.36)

Except for data contained on pages so marked in University of California proposal volumes I, II, III, IV, it is agreed that as a condition of award of this contract, and notwithstanding the conditions of any notice appearing thereon, the Government shall have unlimited rights (as defined in the "Rights in Data-General" clause contained in this contract) in and to the technical data contained in the proposal dated February 9, 2005, upon which this contract is based.

I.76 - FAR 52.229-8 TAXES – FOREIGN COST-REIMBURSEMENT CONTRACTS
(MAR 1990) (PREV. I.37)

- (a) Any tax or duty from which the United States Government is exempt by agreement with the Government of the successor states of the former Soviet Union, (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and

Lithuania, and Uzbekistan) or from which the Contractor or any subcontractor under this contract is exempt under the laws of the successor states of the former Soviet Union, (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and Lithuania, and Uzbekistan) shall not constitute an allowable cost under this contract.

- (b) If the Contractor or subcontractor under this contract obtains a foreign tax credit that reduces its Federal income tax liability under the United States Internal Revenue Code (Title 26, U.S. Code) because of the payment of any tax or duty that was reimbursed under this contract, the amount of the reduction shall be paid or credited at the time of such offset to the Government of the United States as the Contracting Officer directs.

I.77 - FAR 52.230-2 COST ACCOUNTING STANDARDS (OCT 2015) (DEVIATION PF 2018-30) (PREV. I.38)

- (a) Unless the contract is exempt under 48 CFR 9903.201-1 and 9903.201-2, the provisions of 48 CFR Part 9903 are incorporated herein by reference and the Contractor, in connection with this contract, shall—
 - (1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractor's cost accounting practices as required by 48 CFR 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.
 - (2) Follow consistently the Contractor's cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with paragraph (a)(4) or (a)(5) of this clause, as appropriate.
 - (3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR Part 9904, in effect on the date of

award of this contract or, if the Contractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the Contractor's signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

- (4)
 - (i) (Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to paragraph (a)(3) of this clause, the Contractor is required to make to the Contractor's established cost accounting practices.
 - (ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of paragraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.
 - (iii) When the parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the Changes clause of this contract.
- (5) Agree to an adjustment of the contract price or cost allowance, as appropriate, if the Contractor or a subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621(a)(2) of the Internal Revenue Code of 1986 (26 U.S.C. 6621(a)(2)) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.
- (b) If the parties fail to agree whether the Contractor or a subcontractor has complied with an applicable CAS in 48 CFR 9904 or a CAS rule or regulation in 48 CFR 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under 41 U.S.C. chapter 71, Contract Disputes.

- (c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.
- (d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the subcontractor's award date or if the subcontractor has submitted certified cost or pricing data, on the date of final agreement on price as shown on the subcontractor's signed Certificate of Current Cost or Pricing Data. If the subcontract is awarded to a business unit which pursuant to 48 CFR 9903.201-2 is subject to other types of CAS coverage, the substance of the applicable clause set forth in subsection 30.201-4 of the Federal Acquisition Regulation shall be inserted.

This requirement shall apply only to negotiated subcontracts in excess of \$2 million, except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR 9903.201-1.

I.78 - FAR 52.230-6 ADMINISTRATION OF COST ACCOUNTING STANDARDS (JUN 2010) (PREV. I.39)

For the purpose of administering the Cost Accounting Standards (CAS) requirements under this contract, the Contractor shall take the steps outlined in paragraphs (b) through (i) and (k) through (n) of this clause:

- (a) *Definitions.* As used in this clause—

Affected CAS-covered contract or subcontract means a contract or subcontract subject to CAS rules and regulations for which a Contractor or subcontractor—

- (1) Used one cost accounting practice to estimate costs and a changed cost accounting practice to accumulate and report costs under the contract or subcontract; or
- (2) Used a noncompliant practice for purposes of estimating or accumulating and reporting costs under the contract or subcontract.

Cognizant Federal agency official (CFAO) means the Contracting Officer assigned by the cognizant Federal agency to administer the CAS.

Desirable change means a compliant change to a Contractor's established or disclosed cost accounting practices that the CFAO finds is desirable and not detrimental to the Government and is, therefore, not subject to the no increased

cost prohibition provisions of CAS-covered contracts and subcontracts affected by the change.

Fixed-price contracts and subcontracts means—

- (1) Fixed-price contracts and subcontracts described at FAR 16.202, 16.203, (except when price adjustments are based on actual costs of labor or material, described at 16.203-1(a)(2)), and 16.207;
- (2) Fixed-price incentive contracts and subcontracts where the price is not adjusted based on actual costs incurred (FAR Subpart 16.4);
- (3) Orders issued under indefinite-delivery contracts and subcontracts where final payment is not based on actual costs incurred (FAR Subpart 16.5); and
- (4) The fixed-hourly rate portion of time-and-materials and labor-hours contracts and subcontracts (FAR Subpart 16.6).

Flexibly-priced contracts and subcontracts means—

- (1) Fixed-price contracts and subcontracts described at FAR 16.203-1(a)(2), 16.204, 16.205, and 16.206;
- (2) Cost-reimbursement contracts and subcontracts (FAR Subpart 16.3);
- (3) Incentive contracts and subcontracts where the price may be adjusted based on actual costs incurred (FAR Subpart 16.4);
- (4) Orders issued under indefinite-delivery contracts and subcontracts where final payment is based on actual costs incurred (FAR Subpart 16.5); and
- (5) The materials portion of time-and-materials contracts and subcontracts (FAR Subpart 16.6).

Noncompliance means a failure in estimating, accumulating, or reporting costs to—

- (1) Comply with applicable CAS; or
- (2) Consistently follow disclosed or established cost accounting practices.

Required change means—

- (1) A change in cost accounting practice that a Contractor is required to make in order to comply with applicable Standards, modifications or interpretations thereto, that subsequently become applicable to existing

CAS-covered contracts or subcontracts due to the receipt of another CAS-covered contract or subcontract; or

- (2) A prospective change to a disclosed or established cost accounting practice when the CFAO determines that the former practice was in compliance with applicable CAS and the change is necessary for the Contractor to remain in compliance.

Unilateral change means a change in cost accounting practice from one compliant practice to another compliant practice that a Contractor with a CAS-covered contract(s) or subcontract(s) elects to make that has not been deemed a desirable change by the CFAO and for which the Government will pay no aggregate increased costs.

- (b) Submit to the CFAO a description of any cost accounting practice change as outlined in paragraphs (b)(1) through (3) of this clause (including revisions to the Disclosure Statement, if applicable), and any written statement that the cost impact of the change is immaterial. If a change in cost accounting practice is implemented without submitting the notice required by this paragraph, the CFAO may determine the change to be a failure to follow paragraph (a)(2) of the clause at FAR 52.230-2, Cost Accounting Standards; paragraph (a)(4) of the clause at FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices; paragraph (a)(4) of the clause at FAR 52.230-4, Disclosure and Consistency of Cost Accounting Practices–Foreign Concerns; or paragraph (a)(2) of the clause at FAR 52.230-5, Cost Accounting Standards–Educational Institution.
 - (1) When a description has been submitted for a change in cost accounting practice that is dependent on a contract award and that contract is subsequently awarded, notify the CFAO within 15 days after such award.
 - (2) For any change in cost accounting practice not covered by (b)(1) of this clause that is required in accordance with paragraphs (a)(3) and (a)(4)(i) of the clause at FAR 52.230-2; or paragraphs (a)(3), (a)(4)(i), or (a)(4)(iv) of the clause at FAR 52.230-5; submit a description of the change to the CFAO not less than 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) before implementation of the change.
 - (3) For any change in cost accounting practices proposed in accordance with paragraph (a)(4)(ii) or (iii) of the clauses at FAR 52.230-2 and FAR 52.230-5; or with paragraph (a)(3) of the clauses at FAR 52.230-3 and FAR 52.230-4, submit a description of the change not less than 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) before implementation of the change. If the change includes a proposed retroactive date submit supporting rationale.

- (4) Submit a description of the change necessary to correct a failure to comply with an applicable CAS or to follow a disclosed practice (as contemplated by paragraph (a)(5) of the clause at FAR 52.230-2 and FAR 52.230-5; or by paragraph (a)(4) of the clauses at FAR 52.230-3 and FAR 52.230-4)—
 - (i) Within 60 days (or such other date as may be mutually agreed to by the CFAO and the Contractor) after the date of agreement with the CFAO that there is a noncompliance; or
 - (ii) In the event of Contractor disagreement, within 60 days after the CFAO notifies the Contractor of the determination of noncompliance.
- (c) When requested by the CFAO, submit on or before a date specified by the CFAO—
 - (1) A general dollar magnitude (GDM) proposal in accordance with paragraph (d) or (g) of this clause. The Contractor may submit a detailed cost-impact (DCI) proposal in lieu of the requested GDM proposal provided the DCI proposal is in accordance with paragraph (e) or (h) of this clause;
 - (2) A detailed cost-impact (DCI) proposal in accordance with paragraph (e) or (h) of this clause;
 - (3) For any request for a desirable change that is based on the criteria in FAR 30.603-2(b)(3)(ii), the data necessary to demonstrate the required cost savings; and
 - (4) For any request for a desirable change that is based on criteria other than that in FAR 30.603-2(b)(3)(ii), a GDM proposal and any other data necessary for the CFAO to determine if the change is a desirable change.
- (d) For any change in cost accounting practice subject to paragraph (b)(1), (b)(2), or (b)(3) of this clause, the GDM proposal shall—
 - (1) Calculate the cost impact in accordance with paragraph (f) of this clause;
 - (2) Use one or more of the following methods to determine the increase or decrease in cost accumulations:
 - (i) A representative sample of affected CAS-covered contracts and subcontracts.
 - (ii) The change in indirect rates multiplied by the total estimated base computed for each of the following groups:

- (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (iii) Any other method that provides a reasonable approximation of the total increase or decrease in cost accumulations for all affected fixed-price and flexibly-priced contracts and subcontracts;
- (3) Use a format acceptable to the CFAO but, as a minimum, include the following data:
- (i) The estimated increase or decrease in cost accumulations by Executive agency, including any impact the change may have on contract and subcontract incentives, fees, and profits, for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (ii) For unilateral changes, the increased or decreased costs to the Government for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts; and
- (4) When requested by the CFAO, identify all affected CAS-covered contracts and subcontracts.
- (e) For any change in cost accounting practice subject to paragraph (b)(1), (b)(2), or (b)(3) of this clause, the DCI proposal shall—
- (1) Show the calculation of the cost impact in accordance with paragraph (f) of this clause;
 - (2) Show the estimated increase or decrease in cost accumulations for each affected CAS-covered contract and subcontract unless the CFAO and Contractor agree to include—
 - (i) Only those affected CAS-covered contracts and subcontracts having an estimate to complete exceeding a specified amount; and
 - (ii) An estimate of the total increase or decrease in cost accumulations for all affected CAS-covered contracts and subcontracts, using the results in paragraph (e)(2)(i) of this clause;

- (3) Use a format acceptable to the CFAO but, as a minimum, include the information in paragraph (d)(3) of this clause; and
 - (4) When requested by the CFAO, identify all affected CAS-covered contracts and subcontracts.
- (f) For GDM and DCI proposals that are subject to the requirements of paragraph (d) or (e) of this clause, calculate the cost impact as follows:
- (1) The cost impact calculation shall include all affected CAS-covered contracts and subcontracts regardless of their status (i.e., open or closed) or the fiscal year in which the costs were incurred (i.e., whether or not the final indirect rates have been established).
 - (2) For unilateral changes—
 - (i) Determine the increased or decreased cost to the Government for flexibly-priced contracts and subcontracts as follows:
 - (A) When the estimated cost to complete using the changed practice exceeds the estimated cost to complete using the current practice, the difference is increased cost to the Government.
 - (B) When the estimated cost to complete using the changed practice is less than the estimated cost to complete using the current practice, the difference is decreased cost to the Government;
 - (ii) Determine the increased or decreased cost to the Government for fixed-priced contracts and subcontracts as follows:
 - (A) When the estimated cost to complete using the changed practice is less than the estimated cost to complete using the current practice, the difference is increased cost to the Government.
 - (B) When the estimated cost to complete using the changed practice exceeds the estimated cost to complete using the current practice, the difference is decreased cost to the Government;
 - (iii) Calculate the total increase or decrease in contract and subcontract incentives, fees, and profits associated with the increased or decreased costs to the Government in accordance with 48 CFR

9903.306(c). The associated increase or decrease is based on the difference between the negotiated incentives, fees, and profits and the amounts that would have been negotiated had the cost impact been known at the time the contracts and subcontracts were negotiated; and

- (iv) Calculate the increased cost to the Government in the aggregate.
- (3) For equitable adjustments for required or desirable changes—
- (i) Estimated increased cost accumulations are the basis for increasing contract prices, target prices and cost ceilings; and
 - (ii) Estimated decreased cost accumulations are the basis for decreasing contract prices, target prices and cost ceilings.
- (g) For any noncompliant cost accounting practice subject to paragraph (b)(4) of this clause, prepare the GDM proposal as follows:
- (1) Calculate the cost impact in accordance with paragraph (i) of this clause.
 - (2) Use one or more of the following methods to determine the increase or decrease in contract and subcontract prices or cost accumulations, as applicable:
 - (i) A representative sample of affected CAS-covered contracts and subcontracts.
 - (ii) When the noncompliance involves cost accumulation the change in indirect rates multiplied by the applicable base for only flexibly-priced contracts and subcontracts.
 - (iii) Any other method that provides a reasonable approximation of the total increase or decrease.
 - (3) Use a format acceptable to the CFAO but, as a minimum, include the following data:
 - (i) The total increase or decrease in contract and subcontract price and cost accumulations, as applicable, by Executive agency, including any impact the noncompliance may have on contract and subcontract incentives, fees, and profits, for each of the following groups:

- (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (ii) The increased or decreased cost to the Government for each of the following groups:
 - (A) Fixed-price contracts and subcontracts.
 - (B) Flexibly-priced contracts and subcontracts.
 - (iii) The total overpayments and underpayments made by the Government during the period of noncompliance.
 - (4) When requested by the CFAO, identify all CAS-covered contracts and subcontracts.
- (h) For any noncompliant practice subject to paragraph (b)(4) of this clause, prepare the DCI proposal as follows:
- (1) Calculate the cost impact in accordance with paragraph (i) of this clause.
 - (2) Show the increase or decrease in price and cost accumulations for each affected CAS-covered contract and subcontract unless the CFAO and Contractor agree to—
 - (i) Include only those affected CAS-covered contracts and subcontracts having—
 - (A) Contract and subcontract values exceeding a specified amount when the noncompliance involves estimating costs; and
 - (B) Incurred costs exceeding a specified amount when the noncompliance involves accumulating costs; and
 - (ii) Estimate the total increase or decrease in price and cost accumulations for all affected CAS-covered contracts and subcontracts using the results in paragraph (h)(2)(i) of this clause.
 - (3) Use a format acceptable to the CFAO that, as a minimum, include the information in paragraph (g)(3) of this clause.
 - (4) When requested by the CFAO, identify all CAS-covered contracts and subcontracts.

- (i) For GDM and DCI proposals that are subject to the requirements of paragraph (g) or (h) of this clause, calculate the cost impact as follows:
 - (1) The cost impact calculation shall include all affected CAS-covered contracts and subcontracts regardless of their status (i.e., open or closed) or the fiscal year in which the costs are incurred (i.e., whether or not the final indirect rates have been established).
 - (2) For noncompliances that involve estimating costs, determine the increased or decreased cost to the Government for fixed-price contracts and subcontracts as follows:
 - (i) When the negotiated contract or subcontract price exceeds what the negotiated price would have been had the Contractor used a compliant practice, the difference is increased cost to the Government.
 - (ii) When the negotiated contract or subcontract price is less than what the negotiated price would have been had the Contractor used a compliant practice, the difference is decreased cost to the Government.
 - (3) For noncompliances that involve accumulating costs, determine the increased or decreased cost to the Government for flexibly-priced contracts and subcontracts as follows:
 - (i) When the costs that were accumulated under the noncompliant practice exceed the costs that would have been accumulated using a compliant practice (from the time the noncompliant practice was first implemented until the date the noncompliant practice was replaced with a compliant practice), the difference is increased cost to the Government.
 - (ii) When the costs that were accumulated under the noncompliant practice are less than the costs that would have been accumulated using a compliant practice (from the time the noncompliant practice was first implemented until the date the noncompliant practice was replaced with a compliant practice), the difference is decreased cost to the Government.
 - (4) Calculate the total increase or decrease in contract and subcontracts incentives, fees, and profits associated with the increased or decreased cost to the Government in accordance with 48 CFR 9903.306(c). The associated increase or decrease is based on the difference between the negotiated incentives, fees, and profits and the amounts that would have been negotiated had the Contractor used a compliant practice.

- (5) Calculate the increased cost to the Government in the aggregate.
- (j) If the Contractor does not submit the information required by paragraph (b) or (c) of this clause within the specified time, or any extension granted by the CFAO, the CFAO may take one or both of the following actions:
 - (1) Withhold an amount not to exceed 10 percent of each subsequent amount payment to the Contractor's affected CAS-covered contracts, (up to the estimated general dollar magnitude of the cost impact), until such time as the Contractor provides the required information to the CFAO.
 - (2) Issue a final decision in accordance with FAR 33.211 and unilaterally adjust the contract(s) by the estimated amount of the cost impact.
- (k) Agree to—
 - (1) Contract modifications to reflect adjustments required in accordance with paragraph (a)(4)(ii) or (a)(5) of the clauses at FAR 52.230-2 and 52.230-5; or with paragraph (a)(3)(i) or (a)(4) of the clauses at FAR 52.230-3 and FAR 52.230-4; and
 - (2) Repay the Government for any aggregate increased cost paid to the Contractor.
- (l) For all subcontracts subject to the clauses at FAR 52.230-2, 52.230-3, 52.230-4, or 52.230-5—
 - (1) So state in the body of the subcontract, in the letter of award, or in both (do not use self-deleting clauses);
 - (2) Include the substance of this clause in all negotiated subcontracts; and
 - (3) Within 30 days after award of the subcontract, submit the following information to the Contractor's CFAO:
 - (i) Subcontractor's name and subcontract number.
 - (ii) Dollar amount and date of award.
 - (iii) Name of Contractor making the award.
- (m) Notify the CFAO in writing of any adjustments required to subcontracts under this contract and agree to an adjustment to this contract price or estimated cost and fee. The Contractor shall—

- (1) Provide this notice within 30 days after the Contractor receives the proposed subcontract adjustments; and
 - (2) Include a proposal for adjusting the higher-tier subcontract or the contract appropriately.
- (n) For subcontracts containing the clause or substance of the clause at FAR 52.230 - 2, FAR 52.230-3, FAR 52.230-4, or FAR 52.230-5, require the subcontractor to comply with all Standards in effect on the date of award or of final agreement on price, as shown on the subcontractor's signed Certificate of Current Cost or Pricing Data, whichever is earlier.

I.79 - FAR 52.232-17 INTEREST (MAY 2014) (PREV. I.40)

- (a) Except as otherwise provided in this contract under a Price Reduction for Defective Certified Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in 41 U.S.C. 7109, which is applicable to the period in which the amount becomes due, as provided in paragraph (e) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.
- (b) The Government may issue a demand for payment to the Contractor upon finding a debt is due under the contract.
- (c) Final Decisions. The Contracting Officer will issue a final decision as required by 33.211 if—
 - (1) The Contracting Officer and the Contractor are unable to reach agreement on the existence or amount of a debt in a timely manner;
 - (2) The Contractor fails to liquidate a debt previously demanded by the Contracting Officer within the timeline specified in the demand for payment unless the amounts were not repaid because the Contractor has requested an installment payment agreement; or
 - (3) The Contractor requests a deferment of collection on a debt previously demanded by the Contracting Officer (see 32.607-2).
- (d) If a demand for payment was previously issued for the debt, the demand for payment included in the final decision shall identify the same due date as the original demand for payment.

- (e) Amounts shall be due at the earliest of the following dates:
 - (1) The date fixed under this contract.
 - (2) The date of the first written demand for payment, including any demand for payment resulting from a default termination.
- (f) The interest charge shall be computed for the actual number of calendar days involved beginning on the due date and ending on—
 - (1) The date on which the designated office receives payment from the Contractor;
 - (2) The date of issuance of a Government check to the Contractor from which an amount otherwise payable has been withheld as a credit against the contract debt; or
 - (3) The date on which an amount withheld and applied to the contract debt would otherwise have become payable to the Contractor.
- (g) The interest charge made under this clause may be reduced under the procedures prescribed in 32.608-2 of the Federal Acquisition Regulation in effect on the date of this contract.

I.80 - FAR 52.232-24 PROHIBITION OF ASSIGNMENT OF CLAIMS (MAY 2014)
(PREV. I.42)

The assignment of claims under the Assignment of Claims Act of 1940 “31 U.S.C. 3727, 41 U.S.C. 6305” is prohibited for this contract.

I.81 - FAR 52.232-39 UNENFORCEABILITY OF UNAUTHORIZED OBLIGATIONS
(JUN 2013) (PREV. I.153)

- (a) Except as stated in paragraph (b) of this clause, when any supply or service acquired under this contract is subject to any End User License Agreement (EULA), Terms of Service (TOS), or similar legal instrument or agreement, that includes any clause requiring the Government to indemnify the Contractor or any person or entity for damages, costs, fees, or any other loss or liability that would create an Anti-Deficiency Act violation (31 U.S.C. 1341), the following shall govern:
 - (1) Any such clause is unenforceable against the Government.

- (2) Neither the Government nor any Government authorized end user shall be deemed to have agreed to such clause by virtue of it appearing in the EULA, TOS, or similar legal instrument or agreement. If the EULA, TOS, or similar legal instrument or agreement is invoked through an "I agree" click box or other comparable mechanism (e.g., "click-wrap" or "browse-wrap" agreements), execution does not bind the Government or any Government authorized end user to such clause.
- (3) Any such clause is deemed to be stricken from the EULA, TOS, or similar legal instrument or agreement.
- (b) Paragraph (a) of this clause does not apply to indemnification by the Government that is expressly authorized by statute and specifically authorized under applicable agency regulation and procedures.

I.82 - FAR 52.232-40 PROVIDING ACCELERATED PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS (DEC 2013) (PREV. I.154)

- (a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
- (b) The acceleration of payments under this clause does not provide any new rights under the Prompt Payment Act.
- (c) Include the substance of this clause, including this paragraph (c), in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.

I.83 - FAR 52.233-1 DISPUTES (MAY 2014) (ALTERNATE I) (DEC 1991) (PREV. I.43)

- (a) This contract is subject to 41 U.S.C. chapter 71, Contract Disputes.
- (b) Except as provided in 41 U.S.C. chapter 71, all disputes arising under or relating to this contract shall be resolved under this clause.
- (c) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. However, a written demand or written assertion by the Contractor seeking the payment of money exceeding \$100,000

is not a claim under 41 U.S.C. chapter 71 until certified. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim under 41 U.S.C. chapter 71. The submission may be converted to a claim under 41 U.S.C. chapter 71, by complying with the submission and certification requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.

- (d)
 - (1) A claim by the Contractor shall be made in writing and, unless otherwise stated in this contract, submitted within 6 years after accrual of the claim to the Contracting Officer for a written decision. A claim by the Government against the Contractor shall be subject to a written decision by the Contracting Officer.
 - (2)
 - (i) The contractor shall provide the certification specified in paragraph (d)(2)(iii) of this clause when submitting any claim exceeding \$100,000.
 - (ii) The certification requirement does not apply to issues in controversy that have not been submitted as all or part of a claim.
 - (iii) The certification shall state as follows: "I certify that the claim is made in good faith; that the supporting data are accurate and complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable; and that I am authorized to certify the claim on behalf of the Contractor."
 - (3) The certification may be executed by any person authorized to bind the Contractor with respect to the claim.
- (e) For Contractor claims of \$100,000 or less, the Contracting Officer must, if requested in writing by the Contractor, render a decision within 60 days of the request. For Contractor-certified claims over \$100,000, the Contracting Officer must, within 60 days, decide the claim or notify the Contractor of the date by which the decision will be made.
- (f) The Contracting Officer's decision shall be final unless the Contractor appeals or files a suit as provided in 41 U.S.C. chapter 71.
- (g) If the claim by the Contractor is submitted to the Contracting Officer or a claim by the Government is presented to the Contractor, the parties, by mutual consent, may agree to use alternative dispute resolution (ADR). If the Contractor refuses an offer for ADR, the Contractor shall inform the Contracting Officer, in writing, of the Contractor's specific reasons for rejecting the offer.

- (h) The Government shall pay interest on the amount found due and unpaid from
 - (1) the date that the Contracting Officer receives the claim (certified, if required); or
 - (2) the date that payment otherwise would be due, if that date is later, until the date of payment.

With regard to claims having defective certifications, as defined in FAR 33.201, interest shall be paid from the date that the Contracting Officer initially receives the claim. Simple interest on claims shall be paid at the rate, fixed by the Secretary of the Treasury as provided in the Act, which is applicable to the period during which the Contracting Officer receives the claim and then at the rate applicable for each 6-month period as fixed by the Treasury Secretary during the pendency of the claim.

- (i) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under the contract, and comply with any decision of the Contracting Officer.

I.84 - FAR 52.233-4 APPLICABLE LAW FOR BREACH OF CONTRACT CLAIM (OCT 2004) (PREV. I.146)

United States law will apply to resolve any claim of breach of this contract.

I.85 - FAR 52.236-8 OTHER CONTRACTS (APR 1984) (PREV. I.45)

The Government may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other contractors and with Government employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other contractor or by Government employees.

I.86 - FAR 52.237-3 CONTINUITY OF SERVICES (JAN 1991) (PREV. I.46)

- (a) The Contractor recognizes that the services under this contract are vital to the Government and must be continued without interruption and that, upon contract expiration, a successor, either the Government or another contractor, may continue them. The Contractor agrees to (1) furnish phase-in training, and (2) exercise its best efforts and cooperation to effect an orderly and efficient transition to a successor.

- (b) The Contractor shall, upon the Contracting Officer's written notice, (1) furnish phase-in, phase-out services for up to ninety (90) days after this contract expires and (2) negotiate in good faith a plan with a successor to determine the nature and extent of phase-in, phase-out services required. The plan shall specify a training program and a date for transferring responsibilities for each division of work described in the plan, and shall be subject to the Contracting Officer's approval. The Contractor shall provide sufficient experienced personnel during the phase-in, phase-out period to ensure that the services called for by this contract are maintained at the required level of proficiency.
- (c) The Contractor shall allow as many personnel as practicable to remain on the job to help the successor maintain the continuity and consistency of the services required by this contract. The Contractor also shall disclose necessary personnel records and allow the successor to conduct on-site interviews with these employees. If selected employees are agreeable to the change, the Contractor shall release them at a mutually agreeable date and negotiate transfer of their earned fringe benefits to the successor.
- (d) The Contractor shall be reimbursed for all reasonable phase-in, phase-out costs (i.e., costs incurred within the agreed period after contract expiration that result from phase-in, phase-out operations) and a fee (profit) not to exceed a pro rata portion of the fee (profit) under this contract.

I.87 - FAR 52.242-1 NOTICE OF INTENT TO DISALLOW COSTS (APR 1984) (PREV. I.47)

- (a) Notwithstanding any other clause of this contract --
 - (1) The Contracting Officer may, at any time, issue to the Contractor a written notice of intent to disallow specified costs incurred or planned for incurrence under this contract that have been determined not to be allowable under the contract terms; and
 - (2) The Contractor may, after receiving a notice under subparagraph (1) above, submit a written response to the Contracting Officer, with justification for allowance of the costs. If the Contractor does respond within sixty (60) days, the Contracting Officer shall, within sixty (60) days of receiving the response, either make a written withdrawal of the notice or issue a written decision.
- (b) Failure to issue a notice under this Notice of Intent to Disallow Costs clause shall not affect the Government's rights to take exception to incurred costs.

I.88 - FAR 52.242-5 PAYMENTS TO SMALL BUSINESS SUBCONTRACTORS
(JAN 2017) (PREV. I.165)

(a) *Definitions.* As used in this clause—

Reduced payment means a payment that is for less than the amount agreed upon in a subcontract in accordance with its terms and conditions, for supplies and services for which the Government has paid the prime contractor.

Untimely payment means a payment that is more than 90 days past due under the terms and conditions of a subcontract, for supplies and services for which the Government has paid the prime contractor.

(b) *Notice.* The Contractor shall notify the Contracting Officer, in writing, not later than 14 days after—

(1) A small business subcontractor was entitled to payment under the terms and conditions of the subcontract; and

(2) The Contractor—

(i) Made a reduced or untimely payment to the small business subcontractor; or

(ii) Failed to make a payment, which is now untimely.

(c) *Content of notice.* The Contractor shall include the reason(s) for making the reduced or untimely payment in any notice required under paragraph (b) of this clause.

I.89 - FAR 52.242-13 BANKRUPTCY (JUL 1995) (PREV. I.48)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five (5) days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts against which final payment has not been made. This obligation remains in effect until final payment under this contract.

I.90 - FAR 52.244-5 COMPETITION IN SUBCONTRACTING (DEC 1996) (PREV. I.49)

- (a) The Contractor shall select subcontractors (including suppliers) on a competitive basis to the maximum practical extent consistent with the objectives and requirements of the contract.
- (b) If the Contractor is an approved mentor under the Department of Defense Pilot Mentor-Protégé Program (Pub. L. 101-510, section 831 as amended), the Contractor may award subcontracts under this contract on a noncompetitive basis to its protégés.

I.91 - FAR 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (AUG 2019) (PREV. I.50)

- (a) *Definitions.* As used in this clause—

Commercial item and “commercially available off-the-shelf item” have the meanings contained in Federal Acquisition Regulation 2.101, Definitions.

Subcontract includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or subcontractor at any tier.

- (b) To the maximum extent practicable, the Contractor shall incorporate, and require its subcontractors at all tiers to incorporate, commercial items or non-developmental items as components of items to be supplied under this contract.
- (c)
 - (1) The Contractor shall insert the following clauses in subcontracts for commercial items:
 - (i) 52.203-13, Contractor Code of Business Ethics and Conduct (Oct 2015) (41 U.S.C. 3509), if the subcontract exceeds \$5.5 million and has a performance period of more than 120 days. In altering this clause to identify the appropriate parties, all disclosures of violation of the civil False Claims Act or of Federal criminal law shall be directed to the agency Office of the Inspector General, with a copy to the Contracting Officer.
 - (ii) 52.203-15, Whistleblower Protections Under the American Recovery and Reinvestment Act of 2009 (JUN 2010) (Section 1553 of Pub. L. 111-5), if the subcontract is funded under the Recovery Act.
 - (iii) 52.203-19, Prohibition on Requiring Certain Internal Confidentiality Agreements or Statements (JAN 2017).

- (iv) 52.204-21, Basic Safeguarding of Covered Contractor Information Systems (JUN 2016), other than subcontracts for commercially available off-the-shelf items, if flow down is required in accordance with paragraph (c) of FAR clause 52.204-21.
- (v) 52.204-23, Prohibition on Contracting for Hardware, Software, and Services Developed or Provided by Kaspersky Lab and Other Covered Entities (JUL 2018) (Section 1634 of Pub. L. 115-91).
- (vi) 52.204-25, Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment. (Aug 2019) (Section 889(a)(1)(A) of Pub. L. 115-232).
- (vii) 52.219-8, Utilization of Small Business Concerns (Oct 2018) (15 U.S.C.637(d)(2) and (3)), if the subcontract offers further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceeds \$700,000 (\$1.5 million for construction of any public facility), the subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
- (viii) 52.222-21, Prohibition of Segregated Facilities (APR 2015).
- (ix) 52.222-26, Equal Opportunity (Sept 2016) (E.O.11246).
- (x) 52.222-35, Equal Opportunity for Veterans (Oct 2015) (38 U.S.C.4212(a));
- (xi) 52.222-36, Equal Opportunity for Workers with Disabilities (JUL 2014) (29 U.S.C.793).
- (xii) 52.222-37, Employment Reports on Veterans (FEB 2016) (38 U.S.C.4212)
- (xiii) 52.222-40, Notification of Employee Rights Under the National Labor Relations Act (DEC 2010) (E.O. 13496), if flow down is required in accordance with paragraph (f) of FAR clause 52.222-40.
- (xiv) (A) 52.222-50, Combating Trafficking in Persons (JAN 2019) (22 U.S.C. chapter 78 and E.O. 13627).
(B) Alternate I (MAR 2015 of 52.222-50 (22 U.S.C. chapter 78 and E.O. 13627).

- (xv) 52.222-55, Minimum Wages under Executive Order 13658 (DEC 2015), if flow down is required in accordance with paragraph (k) of FAR clause 52.222-55.
- (xvi) 52.222-62, Paid Sick Leave Under Executive Order 13706 (JAN 2017) (E.O. 13706), if flow down is required in accordance with paragraph (m) of FAR clause 52.222-62.
- (xvii) (A) 52.224-3, Privacy Training (JAN 2017) (5 U.S.C. 552a) if flow down is required in accordance with 52.224-3(f).
- (B) Alternate I (JAN 2017) of 52.224-3, if flow down is required in accordance with 52.224-3(f) and the agency specifies that only its agency-provided training is acceptable).
- (xviii) 52.225-26, Contractors Performing Private Security Functions Outside the United States (OCT 2016) (Section 862, as amended, of the National Defense Authorization Act for Fiscal Year 2008; 10 U.S.C. 2302 Note).
- (xix) 52.232-40, Providing Accelerated Payments to Small Business Subcontractors (DEC 2013), if flow down is required in accordance with paragraph (c) of FAR clause 52.232-40.
- (xx) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (FEB 2006) (46 U.S.C. App.1241 and 10 U.S.C.2631), if flow down is required in accordance with paragraph (d) of FAR clause 52.247-64).
- (2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

I.92 - FAR 52.247-1 COMMERCIAL BILL OF LADING NOTATIONS (FEB 2006)
(PREV. I.51)

When the Contracting Officer authorizes supplies to be shipped on a commercial bill of lading and the Contractor will be reimbursed these transportation costs as direct allowable costs, the Contractor shall ensure before shipment is made that the commercial shipping documents are annotated with either of the following notations, as appropriate:

- (a) If the Government is shown as the consignor or the consignee, the annotation shall be:

Transportation is for the U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the Government.

- (b) If the Government is not shown as the consignor or the consignee, the annotation shall be:

Transportation is for the U.S. Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by the Government, pursuant to cost-reimbursement contract No. DE-AC02-05CH11231. This may be confirmed by contacting the U.S. Department of Energy, Bay Area Site Office, 1 Cyclotron Road, MS: 90-1023, Berkeley, CA 94720.

I.93 - FAR 52.247-63 PREFERENCE FOR U.S.-FLAG AIR CARRIERS (JUN 2003)
(PREV. I.52)

- (a) *Definitions.* As used in this clause --

International air transportation means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States.

United States means the 50 States, the District of Columbia, and outlying areas.

U.S.-flag air carrier means an air carrier holding a certificate under 49 U.S.C. Chapter 411.

- (b) Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America-Act) requires that all Federal agencies and Government contractors and subcontractors use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
- (c) If available, the Contractor, in performing work under this contract, shall use U.S.- flag air carriers for international air transportation of personnel (and their personal effects) or property.

- (d) In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

STATEMENT OF UNAVAILABILITY OF U.S.-FLAG AIR CARRIERS

International air transportation of persons (and their personal effects) or property by U.S.-flag air carrier was not available or it was necessary to use foreign-flag air carrier service for the following reasons (see section 47.403 of the Federal Acquisition Regulation):

[State reasons]:

(End of statement)

- (e) The Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase order under this contract that may involve international air transportation.

I.94 - FAR 52.247-64 PREFERENCE FOR PRIVATELY OWNED U.S.-FLAG COMMERCIAL VESSELS (FEB 2006) (PREV. I.53)

- (a) Except as provided in paragraph (e) of this clause, the Cargo Preference Act of 1954 (46 U.S.C. App. 1241(b)) requires that Federal departments and agencies shall transport in privately owned U.S.-flag commercial vessels at least 50 percent of the gross tonnage of equipment, materials, or commodities that may be transported in ocean vessels (computed separately for dry bulk carriers, dry cargo liners, and tankers). Such transportation shall be accomplished when any equipment, materials, or commodities, located within or outside the United States, that may be transported by ocean vessel are --
- (1) Acquired for a U.S. Government agency account;
 - (2) Furnished to, or for the account of, any foreign nation without provision for reimbursement;
 - (3) Furnished for the account of a foreign nation in connection with which the United States advances funds or credits, or guarantees the convertibility of foreign currencies; or
 - (4) Acquired with advance of funds, loans, or guaranties made by or on behalf of the United States.

- (b) The Contractor shall use privately owned U.S.-flag commercial vessels to ship at least 50 percent of the gross tonnage involved under this contract (computed separately for dry bulk carriers, dry cargo liners, and tankers) whenever shipping any equipment, materials, or commodities under the conditions set forth in paragraph (a) above, to the extent that such vessels are available at rates that are fair and reasonable for privately owned U.S.-flag commercial vessels.
- (c) (1) The Contractor shall submit one legible copy of a rated on-board ocean bill of lading for each shipment to both --
 - (i) The Contracting Officer, and
 - (ii) The:
Office of Cargo Preference
Maritime Administration (MAR-590)
400 Seventh Street, SW Washington DC 20590

Subcontractor bills of lading shall be submitted through the Prime Contractor.

- (2) The Contractor shall furnish these bill of lading copies (i) within 20 working days of the date of loading for shipments originating in the United States, or (ii) within 30 working days for shipments originating outside the United States. Each bill of lading copy shall contain the following information:
 - (A) Sponsoring U.S. Government agency.
 - (B) Name of vessel.
 - (C) Vessel flag of registry.
 - (D) Date of loading.
 - (E) Port of loading.
 - (F) Port of final discharge.
 - (G) Description of commodity.
 - (H) Gross weight in pounds and cubic feet if available.
 - (I) Total ocean freight revenue in U.S. dollars.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts or purchase orders under this contract, except those described in paragraph (e)(4).

- (e) The requirement in paragraph (a) does not apply to --
- (1) Cargoes carried in vessels as required or authorized by law or treaty;
 - (2) Ocean transportation between foreign countries of supplies purchased with foreign currencies made available, or derived from funds that are made available, under the Foreign Assistance Act of 1961 (22 U.S.C. 2353);
 - (3) Shipments of classified supplies when the classification prohibits the use of non-Government vessels; and
 - (4) Subcontracts or purchase orders for the acquisition of commercial items unless –
 - (i) This contract is –
 - (A) A contract or agreement for ocean transportation services; or
 - (B) A construction contract; or
 - (ii) The supplies being transported are –
 - (A) Items the Contractor is reselling or distributing to the Government without adding value. (Generally, the Contractor does not add value to the items when it subcontracts items for f.o.b. destination shipment); or
 - (B) Shipped in direct support of U.S. military –
 - (1) Contingency operations;
 - (2) Exercises; or
 - (3) Forces deployed in connection with United Nations or North Atlantic Treaty Organization humanitarian or peacekeeping operations.
- (f) Guidance regarding fair and reasonable rates for privately owned U.S.-flag commercial vessels may be obtained from the:

Office of Costs and Rates
Maritime Administration
400 Seventh Street, SW
Washington DC 20590
Phone: 202-366-4610.

I.95 - FAR 52.247-67 SUBMISSION OF TRANSPORTATION DOCUMENTS FOR
AUDIT (FEB 2006) (PREV. I.54)

- (a) The Contractor shall submit to the address identified below, for prepayment audit, transportation documents on which the United States will assume freight charges that were paid --
 - (1) By the Contractor under a cost-reimbursement contract; and
 - (2) By a first-tier subcontractor under a cost-reimbursement subcontract thereunder.
- (b) Cost-reimbursement Contractors shall only submit for audit those bills of lading with freight shipment charges exceeding \$100.00. Bills under \$100.00 shall be retained on-site by the Contractor and made available for on-site audits. This exception only applies to freight shipment bills and is not intended to apply to bills and invoices for any other transportation services.
- (c) Contractors shall submit the above referenced transportation documents to –
The Address in Clause G.3 of the contract.

I.96 - FAR 52.249-6 TERMINATION (COST-REIMBURSEMENT)(MAY 2004)
MODIFIED BY DEAR 970.4905-1 (DEC 2000) (PREV. I.55)

- (a) The Government may terminate performance of work under this contract in whole or, from time to time, in part, if --
 - (1) The Contracting Officer determines that a termination is in the Government's interest; or
 - (2) The Contractor defaults in performing this contract and fails to cure the default within 10 days (unless extended by the Contracting Officer) after receiving a notice specifying the default. "Default" includes failure to make progress in the work so as to endanger performance.

- (b) The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying whether termination is for default of the Contractor or for convenience of the Government, the extent of termination, and the effective date. If, after termination for default, it is determined that the Contractor was not in default or that the Contractor's failure to perform or to make progress in performance is due to causes beyond the control and without the fault or negligence of the Contractor as set forth in the Excusable Delays clause, the rights and obligations of the parties will be the same as if the termination was for the convenience of the Government.
- (c) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
 - (1) Stop work as specified in the notice.
 - (2) Place no further subcontracts or orders (referred to as subcontracts in this clause), except as necessary to complete the continued portion of the contract.
 - (3) Terminate all subcontracts to the extent they relate to the work terminated.
 - (4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or to pay any termination settlement proposal arising out of those terminations.
 - (5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts, the cost of which would be reimbursable in whole or in part, under this contract; approval or ratification will be final for purposes of this clause.
 - (6) Transfer title (if not already transferred) and, as directed by the Contracting Officer, deliver to the Government --
 - (i) The fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated;
 - (ii) The completed or partially completed plans, drawings, information, and other property that, if the contract had been completed, would be required to be furnished to the Government; and

- (iii) The jigs, dies, fixtures, and other special tools and tooling acquired or manufactured for this contract, the cost of which the Contractor has been or will be reimbursed under this contract.
- (7) Complete performance of the work not terminated.
- (8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.
- (9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (c)(6) of this clause; provided, however, that the Contractor (i) is not required to extend credit to any purchaser and (ii) may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer. The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.
- (d) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.
- (e) After expiration of the plant clearance period as defined in Subpart 49.001 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept the items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.
- (f) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1-year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may

determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.

- (g) Subject to paragraph (f) of this clause, the Contractor and the Contracting Officer may agree on the whole or any part of the amount to be paid (including an allowance for fee) because of the termination. The contract shall be amended, and the Contractor paid the agreed amount.
- (h) If the Contractor and the Contracting Officer fail to agree in whole or in part on the amount of costs and/or fee to be paid because of the termination of work, the Contracting Officer shall determine, on the basis of information available, the amount, if any, due the Contractor, and shall pay that amount, which shall include the following:
 - (1) All costs reimbursable under this contract, not previously paid, for the performance of this contract before the effective date of the termination, and those costs that may continue for a reasonable time with the approval of or as directed by the Contracting Officer; however, the Contractor shall discontinue those costs as rapidly as practicable.
 - (2) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the contract if not included in subparagraph (h)(1) of this clause.
 - (3) The reasonable costs of settlement of the work terminated, including—
 - (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
 - (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
 - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory. If the termination is for default, no amounts for the preparation of the Contractor's termination settlement proposal may be included.
 - (4) A portion of the fee payable under the contract, determined as follows:
 - (i) If the contract is terminated for the convenience of the Government, the settlement shall include a percentage of the fee equal to the percentage of completion of work contemplated under the contract, but excluding subcontract effort included in subcontractors' termination proposals, less previous payments for fee.

- (ii) If the contract is terminated for default, the total fee payable shall be such proportionate part of the fee as the total number of articles (or amount of services) delivered to and accepted by the Government is to the total number of articles (or amount of services) of a like kind required by the contract.
- (5) If the settlement includes only fee, it will be determined under subparagraph (h)(4) of this clause.
- (i) The cost principles and procedures in Part 31 of the Federal Acquisition Regulation, as supplemented in Subpart 970.31 of the Department of Energy Acquisition Regulation, in effect on the date of this contract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (f), (h), or (l) of this clause, except that if the Contractor failed to submit the termination settlement proposal within the time provided in paragraph (f) and failed to request a time extension, there is no right of appeal. If the Contracting Officer has made a determination of the amount due under paragraph (f), (h) or (l) of this clause, the Government shall pay the Contractor --
 - (1) The amount determined by the Contracting Officer if there is no right of appeal or if no timely appeal has been taken; or
 - (2) The amount finally determined on an appeal.
- (k) In arriving at the amount due the Contractor under this clause, there shall be deducted --
 - (1) All unliquidated advance or other payments to the Contractor, under the terminated portion of this contract;
 - (2) Any claim which the Government has against the Contractor under this contract; and
 - (3) The agreed price for, or the proceeds of sale of materials, supplies, or other things acquired by the Contractor or sold under this clause and not recovered by or credited to the Government.
- (l) The Contractor and Contracting Officer must agree to any equitable adjustment in fee for the continued portion of the contract when there is a partial termination. The Contracting Officer shall amend the contract to reflect the agreement.
- (m)
 - (1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor

for the terminated portion of the contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.

- (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charge on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.
- (n) The provisions of this clause relating to fee are inapplicable if this contract does not include a fee.

I.97 - FAR 52.249-14 EXCUSABLE DELAYS (APR 1984) (PREV. I.56)

- (a) Except for defaults of subcontractors at any tier, the Contractor shall not be in default because of any failure to perform this contract under its terms if the failure arises from causes beyond the control and without the fault or negligence of the Contractor. Examples of these causes are (1) acts of God or of the public enemy, (2) acts of the Government in either its sovereign or contractual capacity, (3) fires, (4) floods, (5) epidemics, (6) quarantine restrictions, (7) strikes, (8) freight embargoes, and (9) unusually severe weather. In each instance, the failure to perform must be beyond the control and without the fault or negligence of the Contractor. Default includes failure to make progress in the work so as to endanger performance.
- (b) If the failure to perform is caused by the failure of a subcontractor at any tier to perform or make progress, and if the cause of the failure was beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either, the Contractor shall not be deemed to be in default, unless --
 - (1) The subcontracted supplies or services were obtainable from other sources;
 - (2) The Contracting Officer ordered the Contractor in writing to purchase these supplies or services from the other source; and
 - (3) The Contractor failed to comply reasonably with this order.

- (c) Upon request of the Contractor, the Contracting Officer shall ascertain the facts and extent of the failure. If the Contracting Officer determines that any failure to perform results from one or more of the causes above, the delivery schedule shall be revised, subject to the rights of the Government under the termination clause of this contract.

I.98 - FAR 52.250-1 INDEMNIFICATION UNDER PUBLIC LAW 85-804 (APR1984)
ALTERNATE I (APR 1984) (PREV. I.170)

- (a) "Contractor's principal officials," as used in this clause, means directors, officers, managers, superintendents, or other representatives supervising or directing-
 - (1) All or substantially all of the Contractor's business;
 - (2) All or substantially all of the Contractor's operations at any one plant or separate location in which this contract is being performed; or
 - (3) A separate and complete major industrial operation in connection with the performance of this contract.
- (b) Under Public Law 85-804 (50 U.S.C. 1431-1435) and Executive Order 10789, as amended, and regardless of any other provisions of this contract, the Government shall, subject to the limitations contained in the other paragraphs of this clause, indemnify the Contractor against-
 - (1) Claims (including reasonable expenses of litigation or settlement) by third persons (including employees of the Contractor) for death; personal injury; or loss of, damage to, or loss of use of property;
 - (2) Loss of, damage to, or loss of use of Contractor property, excluding loss of profit; and
 - (3) Loss of, damage to, or loss of use of Government property, excluding loss of profit.
- (c) This indemnification applies only to the extent that the claim, loss, or damage (1) arises out of or results from a risk defined in this contract as unusually hazardous or nuclear and (2) is not compensated for by insurance or otherwise. Any such claim, loss, or damage, to the extent that it is within the deductible amounts of the Contractor's insurance, is not covered under this clause. If insurance coverage or other financial protection in effect on the date the approving official authorizes use of this clause is reduced, the Government's liability under this clause shall not increase as a result.

- (d) When the claim, loss, or damage is caused by willful misconduct or lack of good faith on the part of any of the Contractor's principal officials, the Contractor shall not be indemnified for-
 - (1) Government claims against the Contractor (other than those arising through subrogation); or
 - (2) Loss or damage affecting the Contractor's property.
- (e) With the Contracting Officer's prior written approval, the Contractor may, in any subcontract under this contract, indemnify the subcontractor against any risk defined in this contract as unusually hazardous or nuclear. This indemnification shall provide, between the Contractor and the subcontractor, the same rights and duties, and the same provisions for notice, furnishing of evidence or proof, and Government settlement or defense of claims as this clause provides. The Contracting Officer may also approve indemnification of subcontractors at any lower tier, under the same terms and conditions. The Government shall indemnify the Contractor against liability to subcontractors incurred under subcontract provisions approved by the Contracting Officer.
- (f) The rights and obligations of the parties under this clause shall survive this contract's termination, expiration, or completion. The Government shall make no payment under this clause unless the agency head determines that the amount is just and reasonable. The Government may pay the Contractor or subcontractors, or may directly pay parties to whom the Contractor or subcontractors may be liable.
- (g) The Contractor shall-
 - (1) Promptly notify the Contracting Officer of any claim or action against, or any loss by, the Contractor or any subcontractors that may be reasonably be expected to involve indemnification under this clause;
 - (2) Immediately furnish to the Government copies of all pertinent papers the Contractor receives;
 - (3) Furnish evidence or proof of any claim, loss, or damage covered by this clause in the manner and form the Government requires; and
 - (4) Comply with the Government's directions and execute any authorizations required in connection with settlement or defense of claims or actions.
- (h) The Government may direct, control, or assist in settling or defending any claim or action that may involve indemnification under this clause.

- (i) The cost of insurance (including self-insurance programs) covering a risk defined in this contract as unusually hazardous or nuclear shall not be reimbursed except to the extent that the Contracting Officer has required or approved this insurance. The Government's obligations under this clause are-
 - (1) Excepted from the release required under this contract's clause relating to allowable cost; and
 - (2) Not affected by this contract's Limitation of Cost or Limitation of Funds clause.

I.99 - FAR 52.251-1 GOVERNMENT SUPPLY SOURCES (APR 2012) [SC
ALTERNATE APR 2018] (PREV. I.57)

The Contracting Officer may issue the Contractor an authorization to use Government supply sources in the performance of this contract. Title to all property acquired by the Contractor under such an authorization shall vest in the Government unless otherwise specified in the contract. The provisions of the Section I Clause DEAR 970.5245-1 entitled "Property," apply to all property acquired under such authorization.

I.100 - FAR 52.251-2 INTERAGENCY FLEET MANAGEMENT SYSTEM VEHICLES
AND RELATED SERVICES (JAN 1991) (PREV. I.58)

The Contracting Officer may issue the Contractor an authorization to obtain interagency fleet management system (IFMS) vehicles and related services for use in the performance of this contract. The use, service, and maintenance of interagency fleet management system vehicles and the use of related services by the Contractor shall be in accordance with 41 CFR 101-39 and 41 CFR 101-38.301-1.

I.101 - FAR 52.252-6 AUTHORIZED DEVIATIONS IN CLAUSES (APR 1984) (PREV. I.59)

- (a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or contract of any Department of Energy Acquisition Regulation (48 CFR Chapter 9) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

I.102 - FAR 52.253-1 COMPUTER GENERATED FORMS (JAN 1991) (PREV. I.60)

- (a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.
- (b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.
- (c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the parties will be determined based on the content of the required form.

I.103 - DEAR 952.203-70 WHISTLEBLOWER PROTECTION FOR CONTRACTOR EMPLOYEES (DEC 2000) (PREV. I.61)

- (a) The Contractor shall comply with the requirements of "DOE Contractor Employee Protection Program" at 10 CFR part 708 for work performed on behalf of DOE directly related to activities at DOE-owned or -leased sites.
- (b) The Contractor shall insert or have inserted the substance of this clause, including this paragraph (b), in subcontracts at all tiers, for subcontracts involving work performed on behalf of DOE directly related to activities at DOE-owned or -leased sites

I.104 - DEAR 952.204-2 SECURITY (AUG 2016) (PREV. I.159)

- (a) *Responsibility.* It is the Contractor's duty to protect all classified information, special nuclear material, and other DOE property. The Contractor shall, in accordance with DOE security regulations and requirements, be responsible for protecting all classified information and all classified matter (including documents, material and special nuclear material) which are in the Contractor's possession in connection with the performance of work under this contract against sabotage, espionage, loss or theft. Except as otherwise expressly provided in this contract, the Contractor shall, upon completion or termination of this contract, transmit to DOE any classified matter or special nuclear material in the possession of the Contractor or any person under the Contractor's control in connection with performance of this contract. If retention by the Contractor of any classified matter is required after the completion or termination of the contract,

the Contractor shall identify the items and classification levels and categories of matter proposed for retention, the reasons for the retention, and the proposed period of retention. If the retention is approved by the Contracting Officer, the security provisions of the contract shall continue to be applicable to the classified matter retained. Special nuclear material shall not be retained after the completion or termination of the contract.

- (b) *Regulations.* The Contractor agrees to comply with all security regulations and contract requirements of DOE as incorporated into the contract.
- (c) *Definition of classified information.* The term Classified Information means information that is classified as Restricted Data or Formerly Restricted Data under the Atomic Energy Act of 1954, or information determined to require protection against unauthorized disclosure under Executive Order 12958, Classified National Security Information, as amended, or prior executive orders, which is identified as National Security Information.
- (d) *Definition of restricted data.* The term Restricted Data means all data concerning design, manufacture, or utilization of atomic weapons; production of special nuclear material; or use of special nuclear material in the production of energy, but excluding data declassified or removed from the Restricted Data category pursuant to 42 U.S.C. 2162 [Section 142, as amended, of the Atomic Energy Act of 1954].
- (e) *Definition of formerly restricted data.* The term "Formerly Restricted Data" means information removed from the Restricted Data category based on a joint determination by DOE or its predecessor agencies and the Department of Defense that the information—(1) Relates primarily to the military utilization of atomic weapons; and (2) can be adequately protected as National Security Information. However, such information is subject to the same restrictions on transmission to other countries or regional defense organizations that apply to Restricted Data.
- (f) *Definition of national security information.* The term "National Security Information" means information that has been determined, pursuant to Executive Order 12958, Classified National Security Information, as amended, or any predecessor order, to require protection against unauthorized disclosure, and that is marked to indicate its classified status when in documentary form.
- (g) *Definition of special nuclear material.* The term "special nuclear material" means—(1) Plutonium, uranium enriched in the isotope 233 or in the isotope 235, and any other material which, pursuant to 42 U.S.C. 2071 [section 51 as amended, of the Atomic Energy Act of 1954] has been determined to be special nuclear material, but does not include source material; or (2) any material artificially enriched by any of the foregoing, but does not include source material.

(h) *Access authorizations of personnel.*

- (1) The Contractor shall not permit any individual to have access to any classified information or special nuclear material, except in accordance with the Atomic Energy Act of 1954, and the DOE's regulations and contract requirements applicable to the particular level and category of classified information or particular category of special nuclear material to which access is required.
- (2) The Contractor must conduct a thorough review, as defined at 48 CFR 904.401, of an uncleared applicant or uncleared employee, and must test the individual for illegal drugs, prior to selecting the individual for a position requiring a DOE access authorization.
 - (i) A review must—Verify an uncleared applicant's or uncleared employee's educational background, including any high school diploma obtained within the past five years, and degrees or diplomas granted by an institution of higher learning; contact listed employers for the last three years and listed personal references; conduct local law enforcement checks when such checks are not prohibited by state or local law or regulation and when the uncleared applicant or uncleared employee resides in the jurisdiction where the Contractor is located; and conduct a credit check and other checks as appropriate.
 - (ii) Contractor reviews are not required for an applicant for DOE access authorization who possesses a current access authorization from DOE or another Federal agency, or whose access authorization may be reapproved without a federal background investigation pursuant to Executive Order 12968, Access to Classified Information (August 4, 1995), Sections 3.3(c) and (d).
 - (iii) In collecting and using this information to make a determination as to whether it is appropriate to select an uncleared applicant or uncleared employee to a position requiring an access authorization, the Contractor must comply with all applicable laws, regulations, and Executive Orders, including those—(A) Governing the processing and privacy of an individual's information, such as the Fair Credit Reporting Act, Americans with Disabilities Act (ADA), and Health Insurance Portability and Accountability Act; and (B) prohibiting discrimination in employment, such as under the ADA, Title VII and the Age Discrimination in Employment Act, including with respect to pre- and post-offer of employment disability related questioning.

- (iv) In addition to a review, each candidate for a DOE access authorization must be tested to demonstrate the absence of any illegal drug, as defined in 10 CFR 707.4. All positions requiring access authorizations are deemed testing designated positions in accordance with 10 CFR part 707. All employees possessing access authorizations are subject to applicant, random or for cause testing for use of illegal drugs. DOE will not process candidates for a DOE access authorization unless their tests confirm the absence from their system of any illegal drug.
- (v) When an uncleared applicant or uncleared employee receives an offer of employment for a position that requires a DOE access authorization, the Contractor shall not place that individual in such a position prior to the individual's receipt of a DOE access authorization, unless an approval has been obtained from the head of the cognizant local security office. If the individual is hired and placed in the position prior to receiving an access authorization, the uncleared employee may not be afforded access to classified information or matter or special nuclear material (in categories requiring access authorization) until an access authorization has been granted.
- (vi) The Contractor must maintain a record of information concerning each uncleared applicant or uncleared employee who is selected for a position requiring an access authorization. Upon request only, the following information will be furnished to the head of the cognizant local DOE Security Office:
 - (A) The date(s) each Review was conducted;
 - (B) Each entity that provided information concerning the individual;
 - (C) A certification that the review was conducted in accordance with all applicable laws, regulations, and Executive Orders, including those governing the processing and privacy of an individual's information collected during the review;
 - (D) A certification that all information collected during the review was reviewed and evaluated in accordance with the Contractor's personnel policies; and
 - (E) The results of the test for illegal drugs.
- (i) *Criminal liability.* It is understood that disclosure of any classified information relating to the work or services ordered hereunder to any person not entitled to

receive it, or failure to protect any classified information, special nuclear material, or other Government property that may come to the Contractor or any person under the Contractor's control in connection with work under this contract, may subject the Contractor, its agents, employees, or Subcontractors to criminal liability under the laws of the United States (see the Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq.; 18 U.S.C. 793 and 794).

(j) *Foreign ownership, control, or influence.*

- (1) The Contractor shall immediately provide the cognizant security office written notice of any change in the extent and nature of foreign ownership, control or influence over the Contractor which would affect any answer to the questions presented in the Standard Form (SF) 328, Certificate Pertaining to Foreign Interests, executed prior to award of this contract. The Contractor will submit the Foreign Ownership, Control or Influence (FOCI) information in the format directed by DOE. When completed the Contractor must print and sign one copy of the SF 328 and submit it to the Contracting Officer. In addition, any notice of changes in ownership or control which are required to be reported to the Securities and Exchange Commission, the Federal Trade Commission, or the Department of Justice, shall also be furnished concurrently to the Contracting Officer.
- (2) If a Contractor has changes involving foreign ownership, control, or influence, DOE must determine whether the changes will pose an undue risk to the common defense and security. In making this determination, DOE will consider proposals made by the Contractor to avoid or mitigate foreign influences.
- (3) If the cognizant security office at any time determines that the Contractor is, or is potentially, subject to foreign ownership, control, or influence, the Contractor shall comply with such instructions as the Contracting Officer shall provide in writing to protect any classified information or special nuclear material.
- (4) The Contracting Officer may terminate this contract for default either if the Contractor fails to meet obligations imposed by this clause or if the Contractor creates a foreign ownership, control, or influence situation in order to avoid performance or a termination for default. The Contracting Officer may terminate this contract for convenience if the Contractor becomes subject to foreign ownership, control, or influence and for reasons other than avoidance of performance of the contract, cannot, or chooses not to, avoid or mitigate the foreign ownership, control, or influence problem.

(k) *Employment announcements.* When placing announcements seeking applicants for positions requiring access authorizations, the Contractor shall include in the

written vacancy announcement, a notification to prospective applicants that reviews, and tests for the absence of any illegal drug as defined in 10 CFR 707.4, will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment, and that subsequent reinvestigations may be required. If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR part 709, the announcement should also alert applicants that successful completion of a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

- (l) *Flow down to subcontracts.* The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph, in all subcontracts under its contract that will require subcontractor employees to possess access authorizations. Additionally, the Contractor must require such subcontractors to have an existing DOD or DOE facility clearance or submit a completed SF 328, Certificate Pertaining to Foreign Interests, as required in 48 CFR 952.204-73, Facility Clearance, and obtain a foreign ownership, control and influence determination and facility clearance prior to award of a subcontract. Information to be provided by a subcontractor pursuant to this clause may be submitted directly to the Contracting Officer. For purposes of this clause, subcontractor means any subcontractor at any tier and the term "Contracting Officer" means the DOE Contracting Officer. When this clause is included in a subcontract, the term "Contractor" shall mean subcontractor and the term "contract" shall mean subcontract.

I.105 - DEAR 952.204-71 SENSITIVE FOREIGN NATIONS CONTROLS (MAR 2011)
(PREV. I.62)

- (a) In connection with any activities in the performance of this contract, the Contractor agrees to comply with the "Sensitive Foreign Nations Controls" requirements attached to this contract, relating to those countries, which may from time to time, be identified to the Contractor by written notice as sensitive foreign nations. The Contractor shall have the right to terminate its performance under this contract upon at least 60 days' prior written notice to the Contracting Officer if the Contractor determines that it is unable, without substantially interfering with its policies or without adversely impacting its performance to continue performance of the work under this contract as a result of such notification. If the Contractor elects to terminate performance, the provisions of this contract regarding termination for the convenience of the Government shall apply.
- (b) The provisions of this clause shall be included in any subcontracts which may involve making unclassified information about nuclear technology available to sensitive foreign nations.

I.106 - DEAR 952.204-72 DISCLOSURE OF INFORMATION (APR 1994) (PREV. I.63)

- (a) It is mutually expected that the activities under this contract will not involve classified information. It is understood, however, that if in the opinion of either party, this expectation changes prior to the expiration or terminating of all activities under this contract, said party shall notify the other party accordingly in writing without delay. In any event, the Contractor shall classify, safeguard, and otherwise act with respect to all classified information in accordance with applicable law and the requirements of DOE, and shall promptly inform DOE in writing if and when classified information becomes involved, or in the mutual judgment of the parties it appears likely that classified information or material may become involved. The Contractor shall have the right to terminate performance of the work under this contract and in such event the provisions of this contract respecting termination for the convenience of the Government shall apply.
- (b) The Contractor shall not permit any individual to have access to classified information except in accordance with the Atomic Energy Act 1954, as amended, Executive Order 12356, and DOE's regulations or requirements.
- (c) The term Restricted Data as used in this article means all data concerning the design, manufacture, or utilization of atomic weapons, the production of special nuclear material or the use of special nuclear material in the production of energy, but shall not include data declassified or removed from the Restricted Data category pursuant to section 142 of the Atomic Energy Act of 1954, as amended.

I.107- DEAR 952.204-75 PUBLIC AFFAIRS (DEC 2000) (PREV. I.64)

- (a) The Contractor must cooperate with the Department in releasing unclassified information to the public and news media regarding DOE policies, programs, and activities relating to its effort under the contract. The responsibilities under this clause must be accomplished through coordination with the Contracting Officer and appropriate DOE public affairs personnel in accordance with procedures defined by the Contracting Officer.
- (b) The Contractor is responsible for the development, planning, and coordination of proactive approaches for the timely dissemination of unclassified information regarding DOE activities onsite and offsite, including, but not limited to, operations and programs. Proactive public affairs programs may utilize a variety of communication media, including public workshops, meetings or hearings, open houses, newsletters, press releases, conferences, audio/visual presentations, speeches, forums, tours, and other appropriate stakeholder interactions.

- (c) The Contractor's internal procedures must ensure that all releases of information to the public and news media are coordinated through, and approved by, a management official at an appropriate level within the Contractor's organization.
- (d) The Contractor must comply with DOE procedures for obtaining advance clearances on oral, written, and audio/visual informational material prepared for public dissemination or use.
- (e) Unless prohibited by law, and in accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of communications or contacts with Members of Congress relating to the effort performed under the contract.
- (f) In accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of activities or situations that may attract regional or national news media attention and of non-routine inquiries from national news media relating to the effort performed under the contract.
- (g) In releases of information to the public and news media, the Contractor must fully and accurately identify the Contractor's relationship to the Department and fully and accurately credit the Department for its role in funding programs and projects resulting in scientific, technical, and other achievements.

I.108 - DEAR 952.204-77 COMPUTER SECURITY (AUG 2006) (PREV. I.124)

- (a) *Definitions.*
 - (1) *Computer* means desktop computers, portable computers, computer networks (including the DOE Network and local area networks at or controlled by DOE organizations), network devices, automated information systems, and or other related computer equipment owned by, leased, or operated on behalf of the DOE.
 - (2) *Individual* means a DOE contractor or subcontractor employee, or any other person who has been granted access to a DOE computer or to information on a DOE computer, and does not include a member of the public who sends an e-mail message to a DOE computer or who obtains information available to the public on DOE Web sites.
- (b) *Access to DOE computers.* A contractor shall not allow an individual to have access to information on a DOE computer unless--
 - (1) The individual has acknowledged in writing that the individual has no expectation of privacy in the use of a DOE computer; and,

- (2) The individual has consented in writing to permit access by an authorized investigative agency to any DOE computer used during the period of that individual's access to information on a DOE computer, and for a period of three years thereafter.
- (c) *No expectation of privacy.* Notwithstanding any other provision of law (including any provision of law enacted by the Electronic Communications Privacy Act of 1986), no individual using a DOE computer shall have any expectation of privacy in the use of that computer.
- (d) *Written records.* The Contractor is responsible for maintaining written records for itself and subcontractors demonstrating compliance with the provisions of paragraph (b) of this section. The Contractor agrees to provide access to these records to the DOE, or its authorized agents, upon request.
- (e) *Subcontracts.* The Contractor shall insert this clause, including this paragraph (e), in subcontracts under this contract that may provide access to computers owned, leased or operated on behalf of the DOE.

I.109 - DEAR 952.208-7 TAGGING OF LEASED VEHICLES (APR 1984) (PREV. I.65)

- (a) DOE intends to use U.S. Government license tags.
- (b) While it is the intention that vehicles leased hereunder shall operate on Federal tags, the DOE reserves the right to utilize State tags if necessary to accomplish its mission. Should State tags be required, the Contractor shall furnish the DOE the documentation required by the State to acquire such tags.

I.110 - DEAR 952.209-72 ORGANIZATIONAL CONFLICTS OF INTEREST (AUG 2009) (ALTERNATE I) (PREV. I.66)

- (a) *Purpose.* The purpose of this clause is to ensure that the Contractor (1) is not biased because of its financial, contractual, organizational, or other interests which relate to the work under this contract, and (2) does not obtain any unfair competitive advantage over other parties by virtue of its performance of this contract.
- (b) *Scope.* The restrictions described herein shall apply to performance or participation by the Contractor and any of its affiliates or their successors in interest (hereinafter collectively referred to as "Contractor") in the activities covered by this clause as a prime Contractor, subcontractor, cosponsor, joint venturer, consultant, or in any similar capacity. For the purpose of this clause,

affiliation occurs when a business concern is controlled by or has the power to control another or when a third party has the power to control both.

(1) *Use of contractor's work product.*

- (i) The Contractor shall be ineligible to participate in any capacity in Department contracts, subcontracts, or proposals therefore (solicited and unsolicited) which stem directly from the Contractor's performance of work under this contract for a period of (Contracting Officer see 48 CFR 909.507-2 and enter specific term) years after the completion of this contract. Furthermore, unless so directed in writing by the Contracting Officer, the Contractor shall not perform any advisory and assistance services work under this contract on any of its products or services or the products or services of another firm if the Contractor is or has been substantially involved in their development or marketing. Nothing in this subparagraph shall preclude the Contractor from competing for follow-on contracts for advisory and assistance services.
- (ii) If, under this contract, the Contractor prepares a complete or essentially complete statement of work or specifications to be used in competitive acquisitions, the Contractor shall be ineligible to perform or participate in any capacity in any contractual effort which is based on such statement of work or specifications. The Contractor shall not incorporate its products or services in such statement of work or specifications unless so directed in writing by the Contracting Officer, in which case the restriction in this subparagraph shall not apply.
- (iii) Nothing in this paragraph shall preclude the Contractor from offering or selling its standard and commercial items to the Government.

(2) *Access to and use of information.*

- (i) If the Contractor, in the performance of this contract, obtains access to information, such as Department plans, policies, reports, studies, financial plans, internal data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or data which has not been released or otherwise made available to the public, the Contractor agrees that without prior written approval of the Contracting Officer it shall not—
 - (A) use such information for any private purpose unless the information has been released or otherwise made available to the public;

- (B) compete for work for the Department based on such information for a period of six (6) months after either the completion of this contract or until such information is released or otherwise made available to the public, whichever is first;
 - (C) submit an unsolicited proposal to the Government which is based on such information until one year after such information is released or otherwise made available to the public; and
 - (D) release such information unless such information has previously been released or otherwise made available to the public by the Department.
 - (ii) In addition, the Contractor agrees that to the extent it receives or is given access to proprietary data, data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or other confidential or privileged technical, business, or financial information under this contract, it shall treat such information in accordance with any restrictions imposed on such information.
 - (iii) The Contractor may use technical data it first produces under this contract for its private purposes consistent with paragraphs (b)(2)(i) (A) and (D) of this clause and the patent, rights in data, and security provisions of this contract.
- (c) *Disclosure after award.*
- (1) The Contractor agrees that, if changes, including additions, to the facts disclosed by it prior to award of this contract, occur during the performance of this contract, it shall make an immediate and full disclosure of such changes in writing to the Contracting Officer. Such disclosure may include a description of any action which the Contractor has taken or proposes to take to avoid, neutralize, or mitigate any resulting conflict of interest. The Department may, however, terminate the contract for convenience if it deems such termination to be in the best interest of the Government.
 - (2) In the event that the Contractor was aware of facts required to be disclosed or the existence of an actual or potential organizational conflict of interest and did not disclose such facts or such conflict of interest to the Contracting Officer, DOE may terminate this contract for default.
- (d) *Remedies.* For breach of any of the above restrictions or for nondisclosure or misrepresentation of any facts required to be disclosed concerning this contract,

including the existence of an actual or potential organizational conflict of interest at the time of or after award, the Government may terminate the contract for default, disqualify the Contractor from subsequent related contractual efforts, and pursue such other remedies as may be permitted by law or this contract.

- (e) *Waiver.* Requests for waiver under this clause shall be directed in writing to the Contracting Officer and shall include a full description of the requested waiver and the reasons in support thereof. If it is determined to be in the best interests of the Government, the Contracting Officer may grant such a waiver in writing.
- (f) *Subcontracts.*
 - (1) The Contractor shall include a clause, substantially similar to this clause, including this paragraph (f), in subcontracts expected to exceed the simplified acquisition threshold determined in accordance with 48 CFR part 13 and involving the performance of advisory and assistance services as that term is defined at 48 CFR 2.101. The terms "contract, " "Contractor," and "Contracting Officer" shall be appropriately modified to preserve the Government's rights.
 - (2) Prior to the award under this contract of any such subcontracts for advisory and assistance services, the Contractor shall obtain from the proposed subcontractor or consultant the disclosure required by 48 CFR 909.507-1, and shall determine in writing whether the interests disclosed present an actual or significant potential for an organizational conflict of interest. Where an actual or significant potential organizational conflict of interest is identified, the Contractor shall take actions to avoid, neutralize, or mitigate the organizational conflict to the satisfaction of the Contractor. If the conflict cannot be avoided or neutralized, the Contractor must obtain the approval of the DOE Contracting Officer prior to entering into the subcontract.

I.111 - DEAR 952.215-70 KEY PERSONNEL (DEC 2000) (PREV. I.69)

- (a) The personnel listed below or elsewhere in this contract are considered essential to the work being performed under this contract. Before removing, replacing, or diverting any of the listed or specified personnel, the Contractor must:
 - (1) Notify the Contracting Officer reasonably in advance;
 - (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this contract; and
 - (3) obtain the Contracting Officer's written approval.

Notwithstanding the foregoing, if the Contractor deems immediate removal or suspension of any member of its management team is necessary to fulfill its obligation to maintain satisfactory standards of employee competency, conduct, and integrity under the clause at 48 CFR 970.5203-3, Contractor's Organization, the Contractor may remove or suspend such person at once, although the Contractor must notify Contracting Officer prior to or concurrently with such action.

- (b) The list of personnel may, with the consent of the contracting parties, be amended from time to time during the course of the contract to add or delete personnel.

List of Key Personnel

Function	Title	Name
Responsible for overall management and administration of science and site and facility operations	Laboratory Director	Michael Witherell
Responsible for management and administration of science and for site and facility operations	Laboratory Deputy Director for Research	Horst Simon
Responsible for management and administration of operations	Laboratory Deputy Director for Operations / Chief Operating Officer	Michael Brandt

I.112 - DEAR 952.217-70 ACQUISITION OF REAL PROPERTY (MAR 2011) (PREV. I.70)

- (a) Notwithstanding any other provision of the contract, the prior approval of the Contracting Officer shall be obtained when, in performance of this contract, the Contractor acquires or proposes to acquire use of real property by:
- (1) Purchase, on the Government's behalf or in the Contractor's own name, with title eventually vesting in the Government.
 - (2) Lease for which the Department of Energy will reimburse the incurred costs as a reimbursable contract cost.
 - (3) Acquisition of temporary interest through easement, license or permit, and the Government funds the entire cost of the temporary interest.
- (b) Justification of and execution of any real property acquisitions shall be in accordance and compliance with directions provided by the Contracting Officer.

- (c) The substance of this clause, including this paragraph (c), shall be included in any subcontract occasioned by this contract under which property described in paragraph (a) of this clause shall be acquired.

I.113 - DEAR 952.219-70 DOE MENTOR-PROTEGE PROGRAM (MAY 2000)
(DEVIATION PF 2019-15) (PREV. I.166)

The Department of Energy has established a Mentor-Protege Program to encourage its prime contractors to assist firms certified under section 8(a) of the Small Business Act by SBA, other small disadvantaged businesses, women-owned small businesses, Historically Black Colleges and Universities and Minority Institutions, other minority institutions of higher learning and small business concerns owned and controlled by service disabled veterans in enhancing their business abilities. If the contract resulting from this solicitation is awarded on a cost-plus-award fee basis, the Contractor's performance as a Mentor may be evaluated as part of the award fee plan. Mentor and Protege firms will develop and submit "lessons learned" evaluations to DOE at the conclusion of the contract. Any DOE contractor that is interested in becoming a Mentor should refer to the applicable regulations at 48 CFR 919.70 and should contact the Department of Energy's Office of Small and Disadvantaged Business Utilization.

I.114 - DEAR 952.223-78 SUSTAINABLE ACQUISITION PROGRAM (OCT 2010)
(PREV. I.138)

- (a) Pursuant to Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance, the Department of Energy (DOE) is committed to managing its facilities in an environmentally preferable and sustainable manner that will promote the natural environment and protect the health and well being of its Federal employees and contractor service providers. In the performance of work under this contract, the Contractor shall provide its services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well being of Federal employees, contract service providers and visitors using the facility.
- (b) Green purchasing or sustainable acquisition has several interacting initiatives. The Contractor must comply with initiatives that are current as of the contract award date. DOE may require compliance with revised initiatives from time to time. The Contractor may request an equitable adjustment to the terms of its contract using the procedures in the Changes clause of the contract. The initiatives important to these Orders are explained on the following Government or Industry Internet Sites:

- (1) Recycled Content Products are described at <http://epa.gov/cpg>

- (2) Biobased Products are described at <http://www.biopreferred.gov/>
 - (3) Energy efficient products are at <http://energystar.gov/products> for Energy Star products
 - (4) Energy efficient products are at <http://www.femp.energy.gov/procurement> for FEMP designated products
 - (5) Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at <http://www.epeat.net> the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site
 - (6) Green house gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>
 - (7) Non-Ozone Depleting Alternative Products are at <http://www.epa.gov/ozone/strathome.html>
 - (8) Water efficient plumbing products are at <http://epa.gov/watersense>.
- (c) The clauses at FAR 52.223-2, Affirmative Procurement of Biobased Products under Service and Construction Contracts, 52.223-15, Energy Efficiency in Energy Consuming Products, and 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts, require the use of products that have biobased content, are energy efficient, or have recycled content. To the extent that the services provided by the Contractor require provision of any of the above types of products, the Contractor must provide the energy efficient and environmentally sustainable type of product unless that type of product—
- (1) Is not available;
 - (2) Is not life cycle cost effective or does not exceed 110% of the price of alternative items if life cycle cost data is unavailable (EPEAT is an example of lifecycle costs that have been analyzed by DOE and found to be acceptable at the silver and gold level);
 - (3) Does not meet performance needs; or,
 - (4) Cannot be delivered in time to meet a critical need.

- (d) In the performance of this contract, the Contractor shall comply with the requirements of Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, (<http://www.epa.gov/greeningepa/practices/eo13423.htm>) and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance (<http://www.archives.gov/federal-register/executive-orders/disposition.html>). The Contractor shall also consider the best practices within the DOE Acquisition Guide, Chapter 23, Acquisition Considerations Regarding Federal Leadership in Environmental, Energy, and Economic Performance. This guide includes information concerning recycled content products, biobased products, energy efficient products, water efficient products, alternative fuels and vehicles, non-ozone depleting substances and other environmentally preferable products and services. This guide is available on the Internet at: <http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf>
- (e) Contractors must establish and maintain a documented energy management program which includes requirements for energy and water efficient equipment, EnergyStar or WaterSense, as applicable and procedures for verification of purchases, following the criteria in DOE Order 430.2B, Departmental Energy, Renewable Energy, and Transportation Management, Attachment 1, or its successor to the extent required elsewhere in the contract. This requirement should not be flowed down to subcontractors.
- (f) In complying with the requirements of paragraph (c) of this clause, the Contractor(s) shall coordinate its activities with and submit required reports through the Environmental Sustainability Coordinator or equivalent position. Reporting under this paragraph and paragraphs (g) and (h) of this clause is only required if the contract or subcontract offers subcontracting opportunities for energy efficient and environmentally sustainable products or services exceeding \$100,000 in any contract year.
- (g) The Contractor shall prepare and submit performance reports, if required, using prescribed DOE formats, at the end of the Federal fiscal year, on matters related to the acquisition of environmentally preferable and sustainable products and services. This is a material delivery under the contract. Failure to perform this requirement may be considered a failure that endangers performance of this contract and may result in termination for default.
- (h) These provisions shall be flowed down only to first tier subcontracts exceeding the simplified acquisition threshold that support operation of the DOE facility and offer significant subcontracting opportunities for energy efficient or environmentally sustainable products or services. The Subcontractor, if subcontracting opportunities for sustainable and environmentally preferable products or services exceed the threshold in paragraph (f) of this clause, will comply with the procedures in paragraphs (c) through (f) of this clause regarding the collection of all data necessary to generate the reports required under

paragraphs (c) through (f) of this clause, and submit the reports directly to the Prime Contractor's Environmental Sustainability Coordinator at the supported facility. The Subcontractor will advise the Contractor if it is unable to procure energy efficient and environmentally sustainable items and cite which of the reasons in paragraph (c) of this clause apply. The reports may be submitted at the conclusion of the subcontract term provided that the subcontract delivery term is not multi-year in nature. If the delivery term is multi-year, the Subcontractor shall report its accomplishments for each Federal fiscal year in a manner and at a time or times acceptable to both parties. Failure to comply with these reporting requirements may be considered a breach of contract with attendant consequences.

- (i) When this clause is used in a subcontract, the word Contractor will be understood to mean Subcontractor.

I.115 - DEAR 952.235-71 RESEARCH MISCONDUCT (JUL 2005) (PREV. I.125)

- (a) The Contractor is responsible for maintaining the integrity of research performed pursuant to this contract award including the prevention, detection, and remediation of research misconduct as defined by this clause, and the conduct of inquiries, investigations, and adjudication of allegations of research misconduct in accordance with the requirements of this clause.
- (b) Unless otherwise instructed by the Contracting Officer, the Contractor must conduct an initial inquiry into any allegation of research misconduct. If the Contractor determines that there is sufficient evidence to proceed to an investigation, it must notify the Contracting Officer and, unless otherwise instructed, the Contractor must:
 - (1) Conduct an investigation to develop a complete factual record and an examination of such record leading to either a finding of research misconduct and an identification of appropriate remedies or a determination that no further action is warranted;
 - (2) If the investigation leads to a finding of research misconduct, conduct an adjudication by a responsible official who was not involved in the inquiry or investigation and is separated organizationally from the element which conducted the investigation. The adjudication must include a review of the investigative record and, as warranted, a determination of appropriate corrective actions and sanctions.
 - (3) Inform the Contracting Officer if an initial inquiry supports a formal investigation and, if requested by the Contracting Officer thereafter, keep the Contracting Officer informed of the results of the investigation and any subsequent adjudication. When an investigation is complete, the

Contractor will forward to the Contracting Officer a copy of the evidentiary record, the investigative report, any recommendations made to the Contractor's adjudicating official, the adjudicating official's decision and notification of any corrective action taken or planned, and the subject's written response (if any).

- (c) The Department of Energy (DOE) may elect to act in lieu of the Contractor in conducting an inquiry or investigation into an allegation of research misconduct if the Contracting Officer finds that--
 - (1) The research organization is not prepared to handle the allegation in a manner consistent with this clause;
 - (2) The allegation involves an entity of sufficiently small size that it cannot reasonably conduct the inquiry;
 - (3) DOE involvement is necessary to ensure the public health, safety, and security, or to prevent harm to the public interest; or,
 - (4) The allegation involves possible criminal misconduct.
- (d) In conducting the activities under paragraphs (b) and (c) of this clause, the Contractor and the Department, if it elects to conduct the inquiry or investigation, shall adhere to the following guidelines:
 - (1) Safeguards for information and subjects of allegations. The Contractor shall provide safeguards to ensure that individuals may bring allegations of research misconduct made in good faith to the attention of the Contractor without suffering retribution. Safeguards include: protection against retaliation; fair and objective procedures for examining and resolving allegations; and diligence in protecting positions and reputations. The Contractor shall also provide the subjects of allegations confidence that their rights are protected and that the mere filing of an allegation of research misconduct will not result in an adverse action. Safeguards include timely written notice regarding substantive allegations against them, a description of the allegation and reasonable access to any evidence submitted to support the allegation or developed in response to an allegation and notice of any findings of research misconduct.
 - (2) Objectivity and Expertise. The Contractor shall select individual(s) to inquire, investigate, and adjudicate allegations of research misconduct who have appropriate expertise and have no unresolved conflict of interest. The individual(s) who conducts an adjudication must not be the same individual(s) who conducted the inquiry or investigation, and must be separate organizationally from the element that conducted the inquiry or investigation.

- (3) **Timeliness.** The Contractor shall coordinate, inquire, investigate and adjudicate allegations of research misconduct promptly, but thoroughly. Generally, an investigation should be completed within 120 days of initiation, and adjudication should be complete within 60 days of receipt of the record of investigation.
- (4) **Confidentiality.** To the extent possible, consistent with fair and thorough processing of allegations of research misconduct and applicable law and regulation, knowledge about the identity of the subjects of allegations and informants should be limited to those with a need to know.
- (5) **Remediation and Sanction.** If the Contractor finds that research misconduct has occurred, it shall assess the seriousness of the misconduct and its impact on the research completed or in process. The Contractor must take all necessary corrective actions. Such action may include but are not limited to, correcting the research record and as appropriate imposing restrictions, controls, or other parameters on research in process or to be conducted in the future. The Contractor must coordinate remedial actions with the Contracting Officer. The Contractor must also consider whether personnel sanctions are appropriate. Any such sanction must be considered and effected consistent with any applicable personnel laws, policies, and procedures, and shall take into account the seriousness of the misconduct and its impact, whether it was done knowingly or intentionally, and whether it was an isolated event or pattern of conduct.
- (e) DOE reserves the right to pursue such remedies and other actions as it deems appropriate, consistent with the terms and conditions of the award instrument and applicable laws and regulations. However, the Contractor's good faith administration of this clause and the effectiveness of its remedial actions and sanctions shall be positive considerations and shall be taken into account as mitigating factors in assessing the need for such actions. If DOE pursues any such action, it will inform the subject of the action of the outcome and any applicable appeal procedures.
- (f) *Definitions.*

Adjudication means a formal review of a record of investigation of alleged research misconduct to determine whether and what corrective actions and sanctions should be taken.

Fabrication means making up data or results and recording or reporting them.

Falsification means manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.

Finding of Research Misconduct means a determination, based on a preponderance of the evidence that research misconduct has occurred. Such a finding requires a conclusion that there has been a significant departure from accepted practices of the relevant research community and that it be knowingly, intentionally, or recklessly committed.

Inquiry means information gathering and initial fact-finding to determine whether an allegation or apparent instance of misconduct warrants an investigation.

Investigation means the formal examination and evaluation of the relevant facts.

Plagiarism means the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.

Research means all basic, applied, and demonstration research in all fields of science, medicine, engineering, and mathematics, including, but not limited to, research in economics, education, linguistics, medicine, psychology, social sciences statistics, and research involving human subjects or animals.

Research Misconduct means fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results, but does not include honest error or differences of opinion.

Research record means the record of all data or results that embody the facts resulting from scientists' inquiries, including, but not limited to, research proposals, laboratory records, both physical and electronic, progress reports, abstracts, theses, oral presentations, internal reports, and journal articles.

- (g) By executing this contract, the Contractor provides its assurance that it has established an administrative process for performing an inquiry, mediating if possible, or investigating, and reporting allegations of research misconduct; and that it will comply with its own administrative process and the requirements of 10 CFR part 733 for performing an inquiry, possible mediation, investigation and reporting of research misconduct.
- (h) The Contractor must insert or have inserted the substance of this clause, including paragraph (g), in subcontracts at all tiers that involve research.

I.116 - DEAR 952.242-70 TECHNICAL DIRECTION (DEC 2000) (PREV. I.73A)

- (a) Performance of the work under this contract shall be subject to the technical direction of the DOE Contracting Officer's Representative (COR). The term "technical direction" is defined to include, without limitation:
 - (1) Providing direction to the Contractor that redirects contract effort, shift work emphasis between work areas or tasks, require pursuit of certain

lines of inquiry, fill in details, or otherwise serve to accomplish the contractual Statement of Work.

- (2) Providing written information to the Contractor that assists in interpreting drawings, specifications, or technical portions of the work description.
 - (3) Reviewing and, where required by the contract, approving, technical reports, drawings, specifications, and technical information to be delivered by the Contractor to the Government.
- (b) The Contractor will receive a copy of the written COR designation from the Contracting Officer. It will specify the extent of the COR's authority to act on behalf of the Contracting Officer.
- (c) Technical direction must be within the scope of work stated in the contract. The COR does not have the authority to, and may not, issue any technical direction that:
- (1) Constitutes an assignment of additional work outside the Statement of Work;
 - (2) Constitutes a change as defined in the contract clause entitled "Changes;"
 - (3) In any manner causes an increase or decrease in the total estimated contract cost, the fee (if any), or the time required for contract performance;
 - (4) Changes any of the expressed terms, conditions or specifications of the contract; or
 - (5) Interferes with the Contractor's right to perform the terms and conditions of the contract.
- (d) All technical direction shall be issued in writing by the COR.
- (e) The Contractor must proceed promptly with the performance of technical direction duly issued by the COR in the manner prescribed by this clause and within its authority under the provisions of this clause. If, in the opinion of the Contractor, any instruction or direction by the COR falls within one of the categories defined in (c)(1) through (c)(5) of this clause, the Contractor must not proceed and must notify the Contracting Officer in writing within five (5) working days after receipt of any such instruction or direction and must request the Contracting Officer to modify the contract accordingly. Upon receiving the notification from the Contractor, the Contracting Officer must:

- (1) Advise the Contractor in writing within thirty (30) days after receipt of the Contractor's letter that the technical direction is within the scope of the contract effort and does not constitute a change under the Changes clause of the contract;
 - (2) Advise the Contractor in writing within a reasonable time that the Government will issue a written change order; or
 - (3) Advise the Contractor in writing within a reasonable time not to proceed with the instruction or direction of the COR.
- (f) A failure of the Contractor and Contracting Officer either to agree that the technical direction is within the scope of the contract or to agree upon the contract action to be taken with respect to the technical direction will be subject to the provisions of the clause entitled "Disputes."

I.117 - DEAR 952.250-70 NUCLEAR HAZARDS INDEMNITY AGREEMENT (JUN 1996)¹ (PREV. I.74)

- (a) *Authority.* This clause is incorporated into this contract pursuant to the authority contained in subsection 170d. of the Atomic Energy Act of 1954, as amended (hereinafter called the Act.)
- (b) *Definitions.* The definitions set out in the Act shall apply to this clause.
- (c) *Financial protection.* Except as hereafter permitted or required in writing by DOE, the contractor will not be required to provide or maintain, and will not provide or maintain at Government expense, any form of financial protection to cover public liability, as described in paragraph (d)(2) below. DOE may, however, at any time require in writing that the contractor provide and maintain financial protection of such a type and in such amount as DOE shall determine to be appropriate to cover such public liability, provided that the costs of such financial protection are reimbursed to the contractor by DOE.
- (d) (1) *Indemnification.* To the extent that the Contractor and other persons indemnified are not compensated by any financial protection permitted or required by DOE, DOE will indemnify the Contractor and other persons indemnified against (i) claims for public liability as described in subparagraph (d)(2) of this clause; and (ii) such legal costs of the Contractor and other persons indemnified as are approved by DOE, provided that DOE's liability, including such legal costs, shall not exceed the amount set forth in section 170e.(1)(B) of the Act in the aggregate for each nuclear incident or precautionary evacuation occurring within the

¹ Clause I.74 pertains to actions occurring prior to August 8, 2005.

United States or \$100 million in the aggregate for each nuclear incident occurring outside the United States, irrespective of the number of persons indemnified in connection with this contract.

- (2) The public liability referred to in subparagraph (d)(1) of this clause is public liability as defined in the Act which (i) arises out of or in connection with the activities under this contract, including transportation; and (ii) arises out of or results from a nuclear incident or precautionary evacuation, as those terms are defined in the Act.
- (e) (1) *Waiver of Defenses.* In the event of a nuclear incident, as defined in the Act, arising out of nuclear waste activities, as defined in the Act, the contractor, on behalf of itself and other persons indemnified, agrees to waive any issue or defense as to charitable or governmental immunity.
- (2) In the event of an extraordinary nuclear occurrence which—
 - (i) Arises out of, results from, or occurs in the course of the construction, possession, or operation of a production or utilization facility; or
 - (ii) Arises out of, results from, or occurs in the course of transportation of source material, by-product material, or special nuclear material to or from a production or utilization facility; or
 - (iii) Arises out of or results from the possession, operation, or use by the contractor or a subcontractor of a device utilizing special nuclear material or by-product material, during the course of the contract activity; or
 - (iv) Arises out of, results from, or occurs in the course of nuclear waste activities, the contractor, on behalf of itself and other persons indemnified, agrees to waive—
 - (A) Any issue or defense as to the conduct of the claimant (including the conduct of persons through whom the claimant derives its cause of action) or fault of persons indemnified, including, but not limited to—
 1. Negligence;
 2. Contributory negligence;
 3. Assumption of risk; or

4. Unforeseeable intervening causes, whether involving the conduct of a third person or an act of God;
- (B) Any issue or defense as to charitable or governmental immunity; and
- (C) Any issue or defense based on any statute of limitations, if suit is instituted within 3 years from the date on which the claimant first knew, or reasonably could have known, of his injury or change and the cause thereof. The waiver of any such issue or defense shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action. The waiver shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified.
- (v) The term extraordinary nuclear occurrence means an event which DOE has determined to be an extraordinary nuclear occurrence as defined in the Act. A determination of whether or not there has been an extraordinary nuclear occurrence will be made in accordance with the procedures in 10 CFR part 840.
- (vi) For the purposes of that determination, "offsite" as that term is used in 10 CFR part 840 means away from "the contract location" which phrase means any DOE facility, installation, or site at which contractual activity under this contract is being carried on, and any Contractor-owned or controlled facility, installation, or site at which the Contractor is engaged in the performance of contractual activity under this contract.
- (3) The waivers set forth above—
 - (i) Shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action;
 - (ii) Shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified;
 - (iii) Shall not preclude a defense based upon a failure to take reasonable steps to mitigate damages;
 - (iv) Shall not apply to injury or damage to a claimant or to a claimant's property which is intentionally sustained by the claimant or which results from a nuclear incident intentionally and wrongfully caused by the claimant;

- (v) Shall not apply to injury to a claimant who is employed at the site of and in connection with the activity where the extraordinary nuclear occurrence takes place, if benefits therefor are either payable or required to be provided under any workmen's compensation or occupational disease law;
 - (vi) Shall not apply to any claim resulting from a nuclear incident occurring outside the United States;
 - (vii) Shall be effective only with respect to those obligations set forth in this clause and in insurance policies, contracts or other proof of financial protection; and
 - (viii) Shall not apply to, or prejudice the prosecution or defense of, any claim or portion of claim which is not within the protection afforded under (A) the limit of liability provisions under subsection 170e. of the Act, and (B) the terms of this agreement and the terms of insurance policies, contracts, or other proof of financial protection.
- (f) *Notification and litigation of claims.* The contractor shall give immediate written notice to DOE of any known action or claim filed or made against the contractor or other person indemnified for public liability as defined in paragraph (d)(2). Except as otherwise directed by DOE, the contractor shall furnish promptly to DOE, copies of all pertinent papers received by the Contractor or filed with respect to such actions or claims. DOE shall have the right to, and may collaborate with, the contractor and any other person indemnified in the settlement or defense of any action or claim and shall have the right to (1) require the prior approval of DOE for the payment of any claim that DOE may be required to indemnify hereunder; and (2) appear through the Attorney General on behalf of the contractor or other person indemnified in any action brought upon any claim that DOE may be required to indemnify hereunder, take charge of such action, and settle or defend any such action. If the settlement or defense of any such action or claim is undertaken by DOE, the contractor or other person indemnified shall furnish all reasonable assistance in effecting a settlement or asserting a defense.
- (g) *Continuity of DOE obligations.* The obligations of DOE under this clause shall not be affected by any failure on the part of the contractor to fulfill its obligation under this contract and shall be unaffected by the death, disability, or termination of existence of the contractor, or by the completion, termination or expiration of this contract.
- (h) *Effect of other clauses.* The provisions of this clause shall not be limited in any way by, and shall be interpreted without reference to, any other clause of this contract, including the clause entitled Contract Disputes, provided, however, that this clause shall be subject to the clauses entitled Covenant Against Contingent

Fees, and Accounts, Records, and Inspection, and any provisions that are later added to this contract as required by applicable Federal law, including statutes, executive orders and regulations, to be included in Nuclear Hazards Indemnity Agreements.

- (i) *Reserved.*
- (j) *Criminal penalties.* Any individual director, officer, or employee of the contractor or of its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to criminal penalties, pursuant to 223(c) of the Act, for knowing and willful violation of the Atomic Energy Act of 1954, as amended, and applicable DOE nuclear safety-related rules, regulations or orders which violation results in, or, if undetected, would have resulted in a nuclear incident.
- (k) *Inclusion in subcontracts.* The contractor shall insert this clause in any subcontract which may involve the risk of public liability, as that term is defined in the Act and further described in paragraph (d)(2) above. However, this clause shall not be included in subcontracts in which the subcontractor is subject to Nuclear Regulatory Commission (NRC) financial protection requirements under section 170b. of the Act or NRC agreements of indemnification under section 170c. or k. of the Act for the activities under the subcontract.

I.118 - DEAR 952.250-70 NUCLEAR HAZARDS INDEMNITY AGREEMENT (AUG 2016) (PREV. I.126)

- (a) *Authority.* This clause is incorporated into this contract pursuant to the authority contained in subsection 170d. of the Atomic Energy Act of 1954, as amended (hereinafter called the Act.)
- (b) *Definitions.* The definitions set out in the Act shall apply to this clause.
- (c) *Financial protection.* Except as hereafter permitted or required in writing by DOE, the Contractor will not be required to provide or maintain, and will not provide or maintain at Government expense, any form of financial protection to cover public liability, as described in paragraph (d)(2) below. DOE may, however, at any time require in writing that the Contractor provide and maintain financial protection of such a type and in such amount as DOE shall determine to be appropriate to cover such public liability, provided that the costs of such financial protection are reimbursed to the Contractor by DOE.
- (d) (1) *Indemnification.* To the extent that the Contractor and other persons indemnified are not compensated by any financial protection permitted or required by DOE, DOE will indemnify the Contractor and other persons indemnified against (i) claims for public liability as described in subparagraph (d)(2) of this clause; and (ii) such legal costs of the

Contractor and other persons indemnified as are approved by DOE, provided that DOE's liability, including such legal costs, shall not exceed the amount set forth in section 170e.(1)(B) of the Act in the aggregate for each nuclear incident or precautionary evacuation occurring within the United States or \$500 million in the aggregate for each nuclear incident occurring outside the United States, irrespective of the number of persons indemnified in connection with this contract.

- (2) The public liability referred to in subparagraph (d)(1) of this clause is public liability as defined in the Act which (i) arises out of or in connection with the activities under this contract, including transportation; and (ii) arises out of or results from a nuclear incident or precautionary evacuation, as those terms are defined in the Act.
- (e) (1) *Waiver of defenses.* In the event of a nuclear incident, as defined in the Act, arising out of nuclear waste activities, as defined in the Act, the Contractor, on behalf of itself and other persons indemnified, agrees to waive any issue or defense as to charitable or governmental immunity.
- (2) In the event of an extraordinary nuclear occurrence which—
 - (i) Arises out of, results from, or occurs in the course of the construction, possession, or operation of a production or utilization facility; or
 - (ii) Arises out of, results from, or occurs in the course of transportation of source material, by-product material, or special nuclear material to or from a production or utilization facility; or
 - (iii) Arises out of or results from the possession, operation, or use by the Contractor or a subcontractor of a device utilizing special nuclear material or by-product material, during the course of the contract activity; or
 - (iv) Arises out of, results from, or occurs in the course of nuclear waste activities, the Contractor, on behalf of itself and other persons indemnified, agrees to waive—
 - (A) Any issue or defense as to the conduct of the claimant (including the conduct of persons through whom the claimant derives its cause of action) or fault of persons indemnified, including, but not limited to—
 - (1) Negligence;
 - (2) Contributory negligence;
 - (3) Assumption of risk; or

- (4) Unforeseeable intervening causes, whether involving the conduct of a third person or an act of God;
 - (B) Any issue or defense as to charitable or governmental immunity; and
 - (C) Any issue or defense based on any statute of limitations, if suit is instituted within 3 years from the date on which the claimant first knew, or reasonably could have known, of his injury or change and the cause thereof. The waiver of any such issue or defense shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action. The waiver shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified.
 - (v) The term extraordinary nuclear occurrence means an event which DOE has determined to be an extraordinary nuclear occurrence as defined in the Act. A determination of whether or not there has been an extraordinary nuclear occurrence will be made in accordance with the procedures in 10 CFR part 840.
 - (vi) For the purposes of that determination, offsite as that term is used in 10 CFR part 840 means away from “the contract location” which phrase means any DOE facility, installation, or site at which contractual activity under this contract is being carried on, and any contractor-owned or controlled facility, installation, or site at which the Contractor is engaged in the performance of contractual activity under this contract.
- (3) The waivers set forth above—
- (i) Shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action;
 - (ii) Shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified;
 - (iii) Shall not preclude a defense based upon a failure to take reasonable steps to mitigate damages;
 - (iv) Shall not apply to injury or damage to a claimant or to a claimant's property which is intentionally sustained by the claimant or which results from a nuclear incident intentionally and wrongfully caused by the claimant;

- (v) Shall not apply to injury to a claimant who is employed at the site of and in connection with the activity where the extraordinary nuclear occurrence takes place, if benefits therefor are either payable or required to be provided under any workmen's compensation or occupational disease law;
 - (vi) Shall not apply to any claim resulting from a nuclear incident occurring outside the United States;
 - (vii) Shall be effective only with respect to those obligations set forth in this clause and in insurance policies, contracts or other proof of financial protection; and
 - (viii) Shall not apply to, or prejudice the prosecution or defense of, any claim or portion of claim which is not within the protection afforded under (A) the limit of liability provisions under subsection 170e. of the Act, and (B) the terms of this agreement and the terms of insurance policies, contracts, or other proof of financial protection.
- (f) *Notification and litigation of claims.* The Contractor shall give immediate written notice to DOE of any known action or claim filed or made against the Contractor or other person indemnified for public liability as defined in paragraph (d)(2). Except as otherwise directed by DOE, the Contractor shall furnish promptly to DOE, copies of all pertinent papers received by the Contractor or filed with respect to such actions or claims. DOE shall have the right to, and may collaborate with, the Contractor and any other person indemnified in the settlement or defense of any action or claim and shall have the right to (1) require the prior approval of DOE for the payment of any claim that DOE may be required to indemnify hereunder; and (2) appear through the Attorney General on behalf of the Contractor or other person indemnified in any action brought upon any claim that DOE may be required to indemnify hereunder, take charge of such action, and settle or defend any such action. If the settlement or defense of any such action or claim is undertaken by DOE, the Contractor or other person indemnified shall furnish all reasonable assistance in effecting a settlement or asserting a defense.
- (g) *Continuity of DOE obligations.* The obligations of DOE under this clause shall not be affected by any failure on the part of the Contractor to fulfill its obligation under this contract and shall be unaffected by the death, disability, or termination of existence of the Contractor, or by the completion, termination or expiration of this contract.
- (h) *Effect of other clauses.* The provisions of this clause shall not be limited in any way by, and shall be interpreted without reference to, any other clause of this contract, including the clause entitled Contract Disputes, provided, however, that this clause shall be subject to the clauses entitled Covenant Against Contingent Fees, and Accounts, records, and inspection, and any provisions that are later

added to this contract as required by applicable Federal law, including statutes, executive orders and regulations, to be included in Nuclear Hazards Indemnity Agreements.

- (i) *Civil penalties.* The Contractor and its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to civil penalties, pursuant to 234A of the Act, for violations of applicable DOE nuclear-safety related rules, regulations, or orders.
- (j) *Criminal penalties.* Any individual director, officer, or employee of the Contractor or of its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to criminal penalties, pursuant to 223(c) of the Act, for knowing and willful violation of the Atomic Energy Act of 1954, as amended, and applicable DOE nuclear safety-related rules, regulations or orders which violation results in, or, if undetected, would have resulted in a nuclear incident.
- (k) *Inclusion in subcontracts.* The Contractor shall insert this clause in any subcontract which may involve the risk of public liability, as that term is defined in the Act and further described in paragraph (d)(2) above. However, this clause shall not be included in subcontracts in which the subcontractor is subject to Nuclear Regulatory Commission (NRC) financial protection requirements under section 170b. of the Act or NRC agreements of indemnification under section 170c. or k. of the Act for the activities under the subcontract.
- (l) *Effective date.* This contract was in effect prior to August 8, 2005 and contains the clause at DEAR 952.250-70 (JUN 1996) or prior version. The indemnity of paragraph (d) (1) is limited to the indemnity provided by the Price-Anderson Amendments Act of 1988 for any nuclear incident to which the indemnity applies that occurred before August 8, 2005. The indemnity of paragraph (d) (1) of this clause applies to any nuclear incident that occurred on or after August 8, 2005. The Contractor's liability for violations of the Atomic Energy Act of 1954 under this contract is that in effect prior to August 8, 2005.

I.119 - DEAR 952.251-70 CONTRACTOR EMPLOYEE TRAVEL DISCOUNTS (AUG 2009) (PREV. I.75)

- (a) The Contractor shall take advantage of travel discounts offered to Federal Contractor employee travelers by AMTRAK, hotels, motels, or car rental companies, when use of such discounts would result in lower overall trip costs and the discounted services are reasonably available. Vendors providing these services may require the Contractor employee to furnish them a letter of identification signed by the authorized Contracting Officer.
- (b) *Contracted airlines.* Contractors are not eligible for GSA contract city pair fares.

- (c) *Discount rail service.* AMTRAK voluntarily offers discounts to Federal travelers on official business and sometimes extends those discounts to Federal contractor employees.
- (d) *Hotels/motels.* Many lodging providers extend their discount rates for Federal employees to Federal contractor employees.
- (e) *Car rentals.* The Surface Deployment and Distribution Command (SDDC) of the Department of Defense negotiates rate agreements with car rental companies that are available to Federal travelers on official business. Some car rental companies extend those discounts to Federal contractor employees.
- (f) *Obtaining travel discounts.*
 - (1) To determine which vendors offer discounts to Government contractors, the Contractor may review commercial publications such as the Official Airline guides Official Traveler, Innovata, or National Telecommunications. The Contractor may also obtain this information from GSA contract Travel Management Centers or the Department of Defense's Commercial Travel Offices.
 - (2) The vendor providing the service may require the Government contractor to furnish a letter signed by the Contracting Officer. The following illustrates a standard letter of identification.

OFFICIAL AGENCY LETTERHEAD

TO: Participating Vendor

SUBJECT: OFFICIAL TRAVEL OF GOVERNMENT CONTRACTOR

(FULL NAME OF TRAVELER), the bearer of this letter is an employee of (COMPANY NAME) which has a contract with this agency under Government contract (CONTRACT NUMBER). During the period of the contract (GIVE DATES), AND WITH THE APPROVAL OF THE CONTRACT VENDOR, the employee is eligible and authorized to use available travel discount rates in accordance with Government contracts and/or agreements. Government Contract City Pair fares are not available to Contractors.

SIGNATURE, Title and telephone number of Contracting Officer

I.120 - DEAR 970.5203-1 MANAGEMENT CONTROLS (JUN 2007) (DEVIATION)
(PREV. I.76)

- (a)
 - (1) The Contractor shall be responsible for maintaining, as an integral part of its organization, effective systems of management controls for both administrative and programmatic functions. Management controls comprise the plan of organization, methods, and procedures adopted by management to reasonably ensure that: the mission and functions assigned to the Contractor are properly executed; efficient and effective operations are promoted including consideration of outsourcing of functions; resources are safeguarded against waste, loss, mismanagement, unauthorized use, or misappropriation; all encumbrances and costs that are incurred under the contract and fees that are earned are in compliance with applicable clauses and other current terms, conditions, and intended purposes; all collections accruing to the Contractor in connection with the work under this contract, expenditures, and all other transactions and assets are properly recorded, managed, and reported; and financial, statistical, and other reports necessary to maintain accountability and managerial control are accurate, reliable, and timely.
 - (2) The systems of controls employed by the Contractor shall be documented and satisfactory to DOE.
 - (3) Such systems shall be an integral part of the Contractor's management functions, including defining specific roles and responsibilities for each level of management, and holding employees accountable for the adequacy of the management systems and controls in their areas of assigned responsibility.
 - (4) The Contractor shall, as part of the internal audit program required elsewhere in this contract, periodically review the management systems and controls employed in programs and administrative areas to ensure that they are adequate to provide reasonable assurance that the objectives of the systems are being accomplished and that these systems and controls are working effectively. Annually, or at other intervals directed by the Contracting Officer, the Contractor shall supply to the Contracting Officer copies of the reports reflecting the status of recommendations resulting from management audits performed by its internal audit activity and any other audit organization. This requirement may be satisfied in part by the reports required under paragraph (i) of 48 CFR 970.5232-3, Accounts, records, and inspection.
- (b) The Contractor shall be responsible for maintaining, as a part of its operational responsibilities, a baseline quality assurance program that implements

documented performance, quality standards, and control and assessment techniques.

- (c) On an annual basis, the Contractor, through an officer at a level above the Laboratory Director, shall submit an assurance to the Contracting Officer that the system of management controls, including all systems revised in accordance with the clause of this Contract entitled, "Application of DOE Contractor Requirements Documents", is adequate to assure that the objectives of the management system are being accomplished and that the system and controls are effective and efficient.

I.121 - DEAR 970.5203-2 PERFORMANCE IMPROVEMENT AND COLLABORATION (MAY 2006) (PREV. I.77)

- (a) The Contractor agrees that it shall affirmatively identify, evaluate, and institute practices, where appropriate, that will improve performance in the areas of environmental and health, safety, scientific and technical, security, business and administrative, and any other areas of performance in the management and operation of the contract. This may entail the alteration of existing practices or the institution of new procedures to more effectively or efficiently perform any aspect of contract performance or reduce overall cost of operation under the contract. Such improvements may result from changes in organization, outsourcing decisions, simplification of systems while retaining necessary controls, or any other approaches consistent with the statement of work and performance measures of this contract.
- (b) The Contractor agrees to work collaboratively with the Department, all other management and operating, DOE major facilities management contractors and affiliated contractors which manage or operate DOE sites or facilities for the following purposes: (i) to exchange information generally, (ii) to evaluate concepts that may be of benefit in resolving common issues, in confronting common problems, or in reducing costs of operations, and (iii) to otherwise identify and implement DOE-complex-wide management improvements discussed in paragraph (a). In doing so, it shall also affirmatively provide information relating to its management improvements to such contractors, including lessons learned, subject to security considerations and the protection of data proprietary to third parties.
- (c) The Contractor may consult with the Contracting Officer in those instances in which improvements being considered pursuant to paragraph (a) involve the cooperation of the DOE. The Contractor may request the assistance of the Contracting Officer in the communication of the success of improvements to other management and operating contractors in accordance with paragraph (b) of this clause.

- (d) The Contractor shall notify the Contracting Officer and seek approval where necessary to fulfill its obligations under the contract. Compliance with this clause in no way alters the obligations of the Contractor under any other provision of this contract.

I.122- DEAR 970.5203-3 CONTRACTOR'S ORGANIZATION (DEC 2000) [SC
ALTERNATE APR 2018] (PREV. I.78)

- (a) *Control of employees.* The Contractor shall be responsible for maintaining satisfactory standards of employee competency, conduct, and integrity and shall be responsible for taking such disciplinary action with respect to its employees as may be necessary. In the event the Contractor fails to remove any employee from the contract work whom DOE deems incompetent, careless, or insubordinate, or whose continued employment on the work is deemed by DOE to be inimical to the Department's mission, the Contracting Officer may require, with the approval of the Secretary of Energy, the Contractor to remove the employee from work under the contract. This includes the right to direct the Contractor to remove its most senior key person from work under the contract for serious contract performance deficiencies.
- (b) *Standards and procedures.* The Contractor shall establish such standards and procedures as are necessary to implement the requirements set forth in 48 CFR 970.0371. Such standards and procedures shall be subject to the approval of the Contracting Officer.

I.123 - DEAR 970.5204-2 LAWS, REGULATIONS, AND DOE DIRECTIVES (DEC 2000) (DEVIATION) (PREV. I.79)

- (a) In performing work under this contract, the Contractor shall comply with the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the appropriate regulatory agency. A List of Applicable Laws and Regulations (Appendix I/List A) may be appended to this contract for information purposes. Omission of any applicable law or regulation from Appendix I/List A does not affect the obligation of the Contractor to comply with such law or regulation pursuant to this paragraph.
- (b) The Contractor will perform the work of this Contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this Contract as "Appendix I", until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described in the clause of this Contract, entitled, "Application of DOE Contractor Requirements Documents".

- (c) Except as otherwise directed by the contracting officer, the contractor shall procure all necessary permits or licenses required for the performance of work under this contract.
- (d) Regardless of the performer of the work, the contractor is responsible for compliance with the requirements of this clause. The contractor is responsible for flowing down the requirements of this clause to subcontracts at any tier to the extent necessary to ensure the contractor's compliance with the requirements.

I.124 - DEAR 970.5204-3 ACCESS TO AND OWNERSHIP OF RECORDS (OCT 2014)
(DEVIATION PER POLICY FLASH 2015-23) (PREV. I.80)

- (a) *Government-owned records.* Except as provided in paragraph (b) of this clause, all records acquired or generated by the contractor in its performance of this contract, including records series described within the contract as Privacy Act systems of records, shall be the property of the Government and shall be maintained in accordance with 36 Code of Federal Regulations (CFR), Chapter XII, -- Subchapter B, "Records Management." The contractor shall ensure records classified as Privacy Act system of records are maintained in accordance with FAR 52.224.2 "Privacy Act."
- (b) *Contractor-owned records.* The following records are considered the property of the contractor and are not within the scope of paragraph (a) of this clause.
 - (1) Employment-related records (such as worker's compensation files; employee relations records, records on salary and employee benefits; drug testing records, labor negotiation records; records on ethics, employee concerns; records generated during the course of responding to allegations of research misconduct; records generated during other employee related investigations conducted under an expectation of confidentiality; employee assistance program records; and personnel and medical/health-related records and similar files), and non-employee patient medical/health-related records, except those records described by the contract as being operated and maintained by the Contractor in Privacy Act system of records.
 - (2) Confidential contractor financial information, internal corporate governance records and correspondence between the contractor and other segments of the contractor located away from the DOE facility (i.e., the contractor's corporate headquarters);
 - (3) Records relating to any procurement action by the contractor, except for records that under 48 CFR 970.5232-3 are described as the property of the Government; and

- (4) Legal records, including legal opinions, litigation files, and documents covered by the attorney-client and attorney work product privileges; and
- (5) The following categories of records maintained pursuant to the technology transfer clause of this contract:
 - (i) Executed license agreements, including exhibits or appendices containing information on royalties, royalty rates, other financial information, or commercialization plans, and all related documents, notes and correspondence.
 - (ii) The contractor's protected Cooperative Research and Development Agreement (CRADA) information and appendices to a CRADA that contain licensing terms and conditions, or royalty or royalty rate information.
 - (iii) Patent, copyright, mask work, and trademark application files and related contractor invention disclosures, documents and correspondence, where the contractor has elected rights or has permission to assert rights and has not relinquished such rights or turned such rights over to the Government.
- (c) *Contract completion or termination.* Upon contract completion or termination, the contractor shall ensure final disposition of all Government-owned records to a Federal Record Center, the National Archives and Records Administration, to a successor contractor, its designee, or other destinations, as directed by the Contracting Officer. Upon the request of the Government, the contractor shall provide either the original contractor-owned records or copies of the records identified in paragraph (b) of this clause, to DOE or its designees, including successor contractors. Upon delivery, title to such records shall vest in DOE or its designees, and such records shall be protected in accordance with applicable federal laws (including the Privacy Act) as appropriate. If the contractor chooses to provide its original contractor-owned records to the Government or its designee, the contractor shall retain future rights to access and copy such records as needed.
- (d) *Inspection, copying, and audit of records.* All records acquired or generated by the Contractor under this contract in the possession of the Contractor, including those described at paragraph (b) of this clause, shall be subject to inspection, copying, and audit by the Government or its designees at all reasonable times, and the Contractor shall afford the Government or its designees reasonable facilities for such inspection, copying, and audit; provided, however, that upon request by the Contracting Officer, the Contractor shall deliver such records to a location specified by the Contracting Officer for inspection, copying, and audit. The Government or its designees shall use such records in accordance with applicable federal laws (including the Privacy Act), as appropriate.

- (e) *Applicability.* This clause applies to all records created, received and maintained by the contractor without regard to the date or origination of such records including all records acquired from a predecessor contractor.
- (f) *Records maintenance and retention.* Contractor shall create, maintain, safeguard, and disposition records in accordance with 36 Code of Federal Regulations (CFR), Chapter XII, -- Subchapter B, "Records Management" and the National Archives and Records Administration (NARA)-approved Records Disposition Schedules. Records retention standards are applicable for all classes of records, whether or not the records are owned by the Government or the contractor. The Government may waive application of the NARA-approved Records Disposition Schedules, if, upon termination or completion of the contract, the Government exercises its right under paragraph (c) of this clause to obtain copies of records described in paragraph (b) and delivery of records described in paragraph (a) of this clause.
- (g) *Subcontracts.*
 - (1) The contractor shall include the requirements of this clause in all subcontracts that contain the Radiation Protection and Nuclear Criticality clause at 952.223-72, or whenever an on-site subcontract scope of work (i) could result in potential exposure to: A) radioactive materials; B) beryllium; or C) asbestos or (ii) involves a risk associated with chronic or acute exposure to toxic chemicals or substances or other hazardous materials that can cause adverse health impacts, in accordance with 10 CFR part 851. In determining its flow-down responsibilities, the Contractor shall include the requirements of this clause in all on-site subcontracts where the scope of work is performed in: (A) Radiological Areas and/or Radioactive Materials Areas (as defined at 10 CFR 835.2); (B) areas where beryllium concentrations exceed or can reasonably be expected to exceed action levels specified in 10 CFR 850; (C) an Asbestos Regulated area (as defined at 29 CFR 1926.1101 or 29 CFR 1910.1001); or (D) a workplace where hazard prevention and abatement processes are implemented in compliance with 10 CFR 851.21 to specifically control potential exposure to toxic chemicals or substances or other hazardous materials that can cause long term health impacts.
 - (2) The Contractor may elect to take on the obligations of the provisions of this clause in lieu of the subcontractor, and maintain records that would otherwise be maintained by the subcontractor.

I.125 - DEAR 970.5211-1 WORK AUTHORIZATION (MAY 2007) (PREV. I.119)

- (a) *Work authorization proposal.* Prior to the start of each fiscal year, the Contracting Officer or designee shall provide the Contractor with program execution guidance in sufficient detail to enable the Contractor to develop an estimated cost, scope, and schedule. In addition, the Contracting Officer may unilaterally assign work. The Contractor shall submit to the Contracting Officer or other designated official, a detailed description of work, a budget of estimated costs, and a schedule of performance for the work it recommends be undertaken during that upcoming fiscal year.
- (b) *Cost estimates.* The Contractor and the Contracting Officer shall establish a budget of estimated costs, description of work, and schedule of performance for each work assignment. If agreement cannot be reached as to scope, schedule, and estimated cost, the Contracting Officer may issue a unilateral work authorization, pursuant to this clause. The work authorization, whether issued bilaterally or unilaterally shall become part of the contract. No activities shall be authorized or costs incurred prior to Contracting Officer issuance of a work authorization or direction concerning continuation of activities of the contract.
- (c) *Performance.* The Contractor shall perform work as specified in the work authorization, consistent with the terms and conditions of this contract.
- (d) *Modification.* The Contracting Officer may at any time, without notice, issue changes to work authorizations within the overall scope of the contract. A proposal for adjustment in estimated costs and schedule for performance of work, recognizing work made unnecessary as a result, along with new work, shall be submitted by the Contractor in accordance with paragraph (a) of this clause. Resolution shall be in accordance with paragraph (b) of this clause.
- (e) *Increase in estimated cost.* The Contractor shall notify the Contracting Officer immediately whenever the cost incurred, plus the projected cost to complete work is projected to differ (plus or minus) from the estimate by 10 percent. The Contractor shall submit a proposal for modification in accordance with paragraph (a) of this clause. Resolution shall be in accordance with paragraph (b) of this clause.
- (f) *Expenditure of funds and incurrence of costs.* The expenditure of monies by the Contractor in the performance of all authorized work shall be governed by the "Obligation of Funds" or equivalent clause of the contract.
- (g) *Responsibility to achieve environment, safety, health, and security compliance.* Notwithstanding other provisions of the contract, the Contractor may, in the event of an emergency, take that corrective action necessary to sustain operations consistent with applicable environmental, safety, health, and security statutes, regulations, and procedures. If such action is taken, the Contractor shall notify

the Contracting Officer within 24 hours of initiation and, within 30 days, submit a proposal for adjustment in estimated costs and schedule established in accordance with paragraphs (a) and (b) of this clause.

I.126 - DEAR 970.5215-1 TOTAL AVAILABLE FEE: BASE FEE AMOUNT AND PERFORMANCE FEE AMOUNT (DEC 2000) (ALTERNATES II AND IV) (DEC 2000) (PREV. I.82)

- (a) *Total available fee.* Total available fee, consisting of a base fee amount (which may be zero) and a performance fee amount (consisting of an incentive fee component for objective performance requirements, an award fee component for subjective performance requirements, or both) determined in accordance with the provisions of this clause, is available for payment in accordance with the clause of this contract entitled, "Payments and advances."
- (b) *Fee Negotiations.* Prior to the beginning of each fiscal year under this contract, or other appropriate period as mutually agreed upon and, if exceeding one year, approved by the Senior Procurement Executive, or designee, the Contracting Officer and Contractor shall enter into negotiation of the requirements for the year or appropriate period, including the evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. The Contracting Officer shall modify this contract at the conclusion of each negotiation to reflect the negotiated requirements, evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. In the event the parties fail to agree on the requirements, the evaluation areas and individual requirements subject to incentives, the total available fee, or the allocation of fee, a unilateral determination will be made by the Contracting Officer. The total available fee amount shall be allocated to a twelve month cycle composed of one or more evaluation periods, or such longer period as may be mutually agreed to between the parties and approved by the Senior Procurement Executive, or designee.
- (c) *Determination of Total Available Fee Amount Earned.*
 - (1) The Government shall, at the conclusion of each specified evaluation period, evaluate the Contractor's performance of all requirements, including performance based incentives completed during the period, and determine the total available fee amount earned. At the Contracting Officer's discretion, evaluation of incentivized performance may occur at the scheduled completion of specific incentivized requirements.
 - (2) The DOE Operations/Field Office Manager, or designee, will be the Manager, Bay Area Site Office. The Contractor agrees that the determination as to the total available fee earned is a unilateral

determination made by the DOE Operations/Field Office Manager, or designee.

- (3) The evaluation of contractor performance shall be in accordance with the Performance Evaluation and Measurement Plan(s) described in subparagraph (d) of this clause unless otherwise set forth in the contract. The Contractor shall be promptly advised in writing of the fee determination, and the basis of the fee determination. In the event that the contractor's performance is considered to be less than the level of performance set forth in the Statement of Work, as amended to include the current Work Authorization Directive or similar document, for any contract requirement, it will be considered by the DOE Operations/Field Office Manager, or designee, who may at his/her discretion adjust the fee determination to reflect such performance. Any such adjustment shall be in accordance with the clause entitled, "Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts" if contained in the contract.
 - (4) Award fee not earned during the evaluation period shall not be allocated to future evaluation periods.
- (d) *Performance Evaluation and Measurement Plan(s)*. To the extent not set forth elsewhere in the contract:
- (1) The Government shall establish a Performance Evaluation and Measurement Plan(s) upon which the determination of the total available fee amount earned shall be based. The Performance Evaluation and Measurement Plan(s) will address all of the requirements of contract performance specified in the contract directly or by reference. A copy of the Performance Evaluation and Measurement Plan(s) shall be provided to the Contractor-
 - (i) Prior to the start of an evaluation period if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been mutually agreed to by the parties; or
 - (ii) Not later than thirty days prior to the scheduled start date of the evaluation period, if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been unilaterally established by the contracting officer.
 - (2) The Performance Evaluation and Measurement Plan(s) will set forth the criteria upon which the Contractor will be evaluated relating to any technical, schedule, management, and/or cost objectives selected for

evaluation. Such criteria should be objective, but may also include subjective criteria. The Plan(s) shall also set forth the method by which the total available fee amount will be allocated and the amount earned determined.

- (3) The Performance Evaluation and Measurement Plan(s) may, consistent with the contract statement of work, be revised during the period of performance. The contracting officer shall notify the contractor--
- (i) of such unilateral changes at least ninety calendar days prior to the end of the affected evaluation period and at least thirty calendar days prior to the effective date of the change;
 - (ii) of such bilateral changes at least sixty calendar days prior to the end of the affected evaluation period; or
 - (iii) if such change, whether unilateral or bilateral, is urgent and high priority, at least thirty calendar days prior to the end of the evaluation period.
- (e) *Schedule for total available fee amount earned determinations.* The DOE Operations/Field Office Manager, or designee, shall issue the final total available fee amount earned determination in accordance with: the schedule set forth in the Performance Evaluation and Measurement Plan(s); or as otherwise set forth in this contract. However, a determination must be made within sixty calendar days after the receipt by the contracting officer of the Contractor's self-assessment, if one is required or permitted by paragraph (f) of this clause, or seventy calendar days after the end of the evaluation period, whichever is later, or a longer period if the Contractor and contracting officer agree. If the contracting officer evaluates the Contractor's performance of specific requirements on their completion, the payment of any earned fee amount must be made within seventy calendar days (or such other time period as mutually agreed to between the contracting officer and the Contractor) after such completion. If the determination is delayed beyond that date, the Contractor shall be entitled to interest on the determined total available fee amount earned at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the payment date. This rate is referred to as the "Renegotiation Board Interest Rate," and is published in the Federal Register semiannually on or about January 1 and July 1. The interest on any late total available fee amount earned determination will accrue daily and be compounded in 30-day increments inclusive from the first day after the schedule determination date through the actual date the determination is issued. That is, interest accrued at the end of any 30-day period will be added to the determined amount of fee earned and be subject to interest if not paid in the succeeding 30-day period.

- (f) *Contractor self-assessment.* Following each evaluation period, the Contractor may submit a self-assessment, provided such assessment is submitted within 45 calendar days after the end of the period. This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The DOE Operations/Field Office Manager, or designee, will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period. A self-assessment, in and of itself may not be the only basis for the award fee determination.

I.127 - DEAR 970.5215-3 CONDITIONAL PAYMENT OF FEE, PROFIT, AND OTHER INCENTIVES – FACILITY MANAGEMENT CONTRACTS (AUG 2009) (ALTERNATE I) (AUG 2009) (PREV. I.83)

(a) *General.*

- (1) The payment of earned fee, fixed fee, profit, or share of cost savings under this contract is dependent upon the Contractor's or Contractor employees' compliance with the terms and conditions of this contract relating to environment, safety and health (ES&H), which includes worker safety and health (WS&H), including performance under an approved Integrated Safety Management System (ISMS).
- (2) The ES&H performance requirements of this contract are set forth in its ES&H terms and conditions, including the DOE approved Contractor ISMS or similar document. Financial incentives for timely mission accomplishment or cost effectiveness shall never compromise or impede full and effective implementation of the ISMS and full ES&H compliance.
- (3) If the Contractor does not meet the performance requirements of this contract relating to ES&H during any performance evaluation period established under the contract pursuant to the clause of this contract entitled, "Total Available Fee: Base Fee Amount and Performance Fee Amount," otherwise earned fee, fixed fee, profit or share of cost savings may be unilaterally reduced by the Contracting Officer.

(b) *Reduction Amount.*

- (1) The amount of earned fee, fixed fee, profit, or share of cost savings that may be unilaterally reduced will be determined by the severity of the performance failure pursuant to the degrees specified in paragraph (c) of this clause.

- (2) If a reduction of earned fee, fixed fee, profit, or share of cost savings is warranted, unless mitigating factors apply, such reduction shall not be less than 26% nor greater than 100% of the amount of earned fee, fixed fee, profit, or the Contractor's share of cost savings for a first degree performance failure, not less than 11% nor greater than 25% for a second degree performance failure, and up to 10% for a third degree performance failure.
- (3) In determining the amount of the reduction and the applicability of mitigating factors, the Contracting Officer must consider the Contractor's overall performance in meeting the ES&H requirements of the contract. Such consideration must include performance against any site specific performance criteria/requirements that provide additional definition, guidance for the amount of reduction, or guidance for the applicability of mitigating factors. In all cases, the Contracting Officer must consider mitigating factors that may warrant a reduction below the applicable range (see 48 CFR 970.1504-1-2). The mitigating factors include the following.
- (i) Degree of control the Contractor had over the event or incident.
 - (ii) Efforts the Contractor had made to anticipate and mitigate the possibility of the event in advance.
 - (iii) Contractor self-identification and response to the event to mitigate impacts and recurrence.
 - (iv) General status (trend and absolute performance) of ES&H and compliance in related areas.
 - (v) Contractor demonstration to the Contracting Officer's satisfaction that the principles of industrial ES&H standards are routinely practiced (e.g., Voluntary Protection Program Star Status, or ISO 14000 Certification).
 - (vi) Event caused by "Good Samaritan" act by the Contractor (e.g., offsite emergency response).
 - (vii) Contractor demonstration that a performance measurement system is routinely used to improve and maintain ES&H performance (including effective resource allocation) and to support DOE corporate decision-making (e.g., policy, ES&H programs).
 - (viii) Contractor demonstration that an Operating Experience and Feedback Program is functioning that demonstrably affects continuous improvement in ES&H by use of lessons-learned and best practices inter- and intra-DOE sites.

- (4) (i) The amount of fee, fixed fee, profit, or share of cost savings that is otherwise earned by a Contractor during an evaluation period may be reduced in accordance with this clause if it is determined that a performance failure warranting a reduction under this clause occurs within the evaluation period.
- (ii) The amount of reduction under this clause, in combination with any reduction made under any other clause in the contract, shall not exceed the amount of fee, fixed fee, profit, or the Contractor's share of cost savings that is otherwise earned during the evaluation period.
- (iii) For the purposes of this clause, earned fee, fixed fee, profit, or share of cost savings for the evaluation period shall mean the amount determined by the Contracting Officer or fee determination official as otherwise payable based on the Contractor's performance during the evaluation period. Where the contract provides for financial incentives that extend beyond a single evaluation period, this amount shall also include: any provisional amounts determined otherwise payable in the evaluation period; and, if provisional payments are not provided for, the allocable amount of any incentive determined otherwise payable at the conclusion of a subsequent evaluation period. The allocable amount shall be the total amount of the earned incentive divided by the number of evaluation periods over which it was earned.
- (iv) The Government will effect the reduction as soon as practicable after the end of the evaluation period in which the performance failure occurs. If the Government is not aware of the failure, it will effect the reduction as soon as practical after becoming aware. For any portion of the reduction requiring an allocation the Government will effect the reduction at the end of the evaluation period in which it determines the total amount earned under the incentive. If at any time a reduction causes the sum of the payments the Contractor has received for fee, fixed fee, profit, or share of cost savings to exceed the sum of fee, fixed fee, profit, or share of cost savings, the Contractor has earned (provisionally or otherwise), the Contractor shall immediately return the excess to the Government. (What the Contractor "has earned" reflects any reduction made under this or any other clause of the contract.)
- (v) At the end of the contract--
 - (A) The Government will pay the Contractor the amount by which the sum of fee, fixed fee, profit, or share of cost

savings the Contractor has earned exceeds the sum of the payments the Contractor has received; or

- (B) The Contractor shall return to the Government the amount by which the sum of the payments the Contractor has received exceeds the sum of fee, fixed fee, profit, or share of cost savings the Contractor has earned. (What the Contractor “has earned” reflects any reduction made under this or any other clause of the contract.)
- (c) *Environment, Safety and Health (ES&H)*. Performance failures occur if the Contractor does not comply with the contract’s ES&H terms and conditions, including the DOE approved Contractor ISMS. The degrees of performance failure under which reductions of earned or fixed fee, profit, or share of cost savings will be determined are:
 - (1) First Degree: Performance failures that are most adverse to ES&H. Failure to develop and obtain required DOE approval of an ISMS is considered first degree. The Government will perform necessary review of the ISMS in a timely manner and will not unreasonably withhold approval of the Contractor’s ISMS. The following performance failures or performance failures of similar import will be considered first degree.
 - (i) Type A accident (defined in DOE Order 225.1B, or successor version).
 - (ii) Two Second Degree performance failures during an evaluation period.
 - (2) Second Degree: Performance failures that are significantly adverse to ES&H. They include failures to comply with an approved ISMS that result in an actual injury, exposure, or exceedence that occurred or nearly occurred but had minor practical long-term health consequences. They also include breakdowns of the Safety Management System. The following performance failures or performance failures of similar import will be considered second degree:
 - (i) Type B accident (defined in DOE Order 225.1B, or successor version).
 - (ii) Non-compliance with an approved ISMS that results in a near miss of a Type A or B accident. A near miss is a situation in which an inappropriate action occurs, or a necessary action is omitted, but does not result in an adverse effect.

- (iii) Failure to mitigate or notify DOE of an imminent danger situation after discovery, where such notification is a requirement of the contract.
- (3) Third Degree: Performance failures that reflect a lack of focus on improving ES&H. They include failures to comply with an approved ISMS that result in potential breakdown of the System. The following performance failures or performance failures of similar import will be considered third degree--
 - (i) Failure to implement effective corrective actions to address deficiencies/non-compliances documented through: external (e.g., Federal) oversight and/or reported per DOE Order 232.2A requirements; or internal oversight of DOE Order 440.1A requirements.
 - (ii) Multiple similar non-compliances identified by external (e.g., Federal) oversight that in aggregate indicate a significant programmatic breakdown.
 - (iii) Non-compliances that either have, or may have, significant negative impacts to the worker, the public, or the environment or that indicate a significant programmatic breakdown.
 - (iv) Failure to notify DOE upon discovery of events or conditions where notification is required by the terms and conditions of the contract.

I.128 - DEAR 970.5217-1 STRATEGIC PARTNERSHIP PROJECTS PROGRAM (NON-DOE FUNDED WORK) (April 23, 2015) (SC Deviation) (PREV. I.134)

- (a) *Authority to Perform Strategic Partnership Projects.* Pursuant to the Economy Act of 1932, as amended (31 U.S.C. 1535) and the Atomic Energy Act of 1954, as amended (42 U.S.C. 2011 et seq.) or other applicable authority, the Contractor may perform work for non-DOE entities (sponsors) on a fully reimbursable basis in accordance with this clause.
- (b) *Contractor's Implementation.* The Contractor must draft, implement, and maintain formal policies, practices and procedures in accordance with this clause, which must be submitted to the Contracting Officer for review and approval.
- (c) *Conditions of Participation in Strategic Partnership Projects Program.* The Contractor:

- (1) Must not perform Strategic Partnership Projects activities that would place it in direct competition with the domestic private sector;
- (2) Must not respond to a request for proposals or any other solicitation from another Federal agency or non-Federal organization that involves direct comparative competition, either as an offeror, team member, or subcontractor to an offeror; however, the Contractor may, following notification to the Contracting Officer, respond to Broad Agency Announcements, Financial Assistance solicitations, and similar solicitations from another Federal Agency or non-Federal organizations when the selection is based on merit or peer review, the work involves basic or applied research to further advance scientific knowledge or understanding, and a response does not result in direct, comparative competition;
- (3) Must not commence work on any Strategic Partnership Projects activity until a Strategic Partnership Projects proposal package has been approved by the DOE Contracting Officer or designated representative;
- (4) Must not incur project costs until receipt of DOE notification that a budgetary resource is available for the project, except as provided in 48 CFR 970.5232-6;
- (5) Must ensure that all costs associated with the performance of the work, including specifically all DOE direct costs and applicable surcharges are included in any Strategic Partnership Projects proposal;
- (6) Must maintain records for the accumulation of costs and the billing of such work to ensure that DOE's appropriated funds are not used in support of Strategic Partnership Projects activities and to provide an accounting of the expenditures to DOE and the sponsor upon request;
- (7) Must perform all Strategic Partnership Projects projects in accordance with the standards, policies, and procedures that apply to performance under this contract, specifically, including but are not limited to environmental, safety and health, security, safeguards and classification procedures, and human and animal research regulations;
- (8) May subcontract portion(s) of a Strategic Partnership Projects project; however, the Contractor must select the subcontractor and the work to be subcontracted. Any subcontracted work must be in direct support of the DOE Contractor's performance as defined in the DOE approved Strategic Partnership Projects proposal package; and
- (9) Must maintain a summary listing of project information for each active Strategic Partnership Projects project, consisting of:

- (i) Sponsoring agency;
 - (ii) Total estimated costs;
 - (iii) Project title and description;
 - (iv) Project point of contact; and,
 - (v) Estimated start and completion dates.
- (d) *Negotiation and Execution of Strategic Partnership Projects Agreement.*
 - (1) When delegated authority by the Contracting Officer, the Contractor may negotiate the terms and conditions that will govern the performance of a specific Strategic Partnership Projects project. Such terms and conditions must be consistent with the terms, conditions, and requirements of the Contractor's contract with DOE. The Contractor may use DOE approved contract terms and conditions as delineated in Attachment 1 of DOE Order 481.1E or terms and conditions previously approved by the responsible Contracting Officer or authorized designee for agreements with non-Federal entities. The Contractor must not hold itself out as representing DOE when negotiating the proposed Strategic Partnership Projects agreement.
 - (2) The Contractor must submit all Strategic Partnership Projects agreements to the DOE Contracting Officer for DOE review and approval. The Contractor may not execute any proposed agreement until it has received notice of DOE approval.
- (e) Preparation of Project Proposals. When the Contractor proposes to perform Strategic Partnership Projects activities pursuant to this clause, it may assist the project sponsor in the preparation of project proposal packages including the preparation of cost estimates.
- (f) Strategic Partnership Projects Appraisals. DOE may conduct periodic appraisals of the Contractor's compliance with its Strategic Partnership Projects Program policies, practices and procedures. The Contractor must provide facilities and other support in conjunction with such appraisals as directed by the Contracting Officer or authorized designee.
- (g) Annual Strategic Partnership Projects Report. The Contractor must provide assistance as required by the Contracting Officer or authorized designee in the preparation of a DOE Annual Summary Report of Strategic Partnership Projects Activities under the contract.

I.129 - DEAR 970.5222-1 COLLECTIVE BARGAINING AGREEMENTS –
MANAGEMENT AND OPERATING CONTRACTS (DEC 2000) (PREV. I.84)

When negotiating collective bargaining agreements applicable to the work force under this contract, the Contractor shall use its best efforts to ensure such agreements contain provisions designed to assure continuity of services. All such agreements entered into during the contract period of performance should provide that grievances and disputes involving the interpretation or application of the agreement will be settled without resorting to strike, lockout, or other interruption of normal operations. For this purpose, each collective bargaining agreement should provide an effective grievance procedure with arbitration as its final step, unless the parties mutually agree upon some other method of assuring continuity of operations. As part of such agreements, management and labor should agree to cooperate fully with the Federal Mediation and Conciliation Service. The contractor shall include the substance of this clause in any subcontracts for protective services or other services performed on the DOE-owned site which will affect the continuity of operation of the facility.

I.130 - DEAR 970.5222-2 OVERTIME MANAGEMENT (DEC 2000) [SC ALTERNATE
APR 2018] (PREV. I.85)

- (a) The Contractor shall maintain adequate internal controls to ensure that employee overtime is authorized only if cost effective and necessary to ensure performance of work under this contract. The Contractor shall adhere to the principles of FAR 22.103-1 in managing overtime use. The Contractor shall, for example, only use overtime when lower overall cost to the Government will result or when it is necessary to meet urgent program needs.
- (b) The Contractor shall notify the Contracting Officer when in any given year it is likely that overtime usage as a percentage of payroll may exceed 4%.
- (c) The Contracting Officer may require the submission, for approval, of a formal annual overtime control plan whenever Contractor overtime usage as a percentage of payroll has exceeded, or is likely to exceed 4%.

I.131 - DEAR 970.5223-1 INTEGRATION OF ENVIRONMENT, SAFETY, AND
HEALTH INTO WORK PLANNING AND EXECUTION (DEC 2000) (PREV. I.86)

- (a) For the purposes of this clause,
 - (1) Safety encompasses environment, safety and health, including pollution prevention and waste minimization; and
 - (2) Employees include subcontractor employees.

- (b) In performing work under this contract, the Contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Contractor shall exercise a degree of care commensurate with the work and the associated hazards. The Contractor shall ensure that management of environment, safety and health (ES&H) functions and activities becomes an integral but visible part of the Contractor's work planning and execution processes. The Contractor shall, in the performance of work, ensure that:
- (1) Line management is responsible for the protection of employees, the public, and the environment. Line management includes those Contractor and subcontractor employees managing or supervising employees performing work.
 - (2) Clear and unambiguous lines of authority and responsibility for ensuring (ES&H) are established and maintained at all organizational levels.
 - (3) Personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities.
 - (4) Resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.
 - (5) Before work is performed, the associated hazards are evaluated and an agreed-upon set of ES&H standards and requirements are established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.
 - (6) Administrative and engineering controls to prevent and mitigate hazards are tailored to the work being performed and associated hazards. Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards and to prevent accidents and unplanned releases and exposures.
 - (7) The conditions and requirements to be satisfied for operations to be initiated and conducted are established and agreed-upon by DOE and the Contractor. These agreed-upon conditions and requirements are requirements of the contract and binding upon the Contractor. The extent of documentation and level of authority for agreement shall be tailored to the complexity and hazards associated with the work and shall be established in a Safety Management System.
- (c) The Contractor shall manage and perform work in accordance with a documented Safety Management System (System) that fulfills all conditions in

paragraph (b) of this clause at a minimum. Documentation of the System shall describe how the Contractor will—

- (1) Define the scope of work;
 - (2) Identify and analyze hazards associated with the work;
 - (3) Develop and implement hazard controls;
 - (4) Perform work within controls; and
 - (5) Provide feedback on adequacy of controls and continue to improve safety management.
- (d) The System shall describe how the Contractor will establish, document, and implement safety performance objectives, performance measures, and commitments in response to DOE program and budget execution guidance while maintaining the integrity of the System. The System shall also describe how the Contractor will measure system effectiveness.
- (e) The Contractor shall submit to the Contracting Officer documentation of its System for review and approval. Dates for submittal, discussions, and revisions to the System will be established by the Contracting Officer. Guidance on the preparation, content, review, and approval of the System will be provided by the Contracting Officer. On an annual basis, the Contractor shall review and update, for DOE approval, its safety performance objectives, performance measures, and commitments consistent with and in response to DOE's program and budget execution guidance and direction. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire System. Accordingly, the System shall be integrated with the Contractor's business processes for work planning, budgeting, authorization, execution, and change control.
- (f) The Contractor shall comply with, and assist the Department of Energy in complying with, ES&H requirements of all applicable laws and regulations, and applicable directives identified in the clause of this contract entitled "Laws, Regulations, and DOE Directives." The Contractor shall cooperate with Federal and non-Federal agencies having jurisdiction over ES&H matters under this contract.
- (g) The Contractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements and the System. If the Contractor fails to provide resolution or if, at any time, the Contractor's acts or failure to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, the Contracting Officer may issue an order stopping work in whole or in part. Any stop work order issued by a contracting officer

under this clause (or issued by the Contractor to a subcontractor in accordance with paragraph (i) of this clause) shall be without prejudice to any other legal or contractual rights of the Government. In the event that the Contracting Officer issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the Contracting Officer. The Contractor shall not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this clause.

- (h) Regardless of the performer of the work, the Contractor is responsible for compliance with the ES&H requirements applicable to this contract. The Contractor is responsible for flowing down the ES&H requirements applicable to this contract to subcontracts at any tier to the extent necessary to ensure the Contractor's compliance with the requirements.
- (i) The Contractor shall include a clause substantially the same as this clause in subcontracts involving complex or hazardous work on site at a DOE-owned or -leased facility. Such subcontracts shall provide for the right to stop work under the conditions described in paragraph (g) of this clause. Depending on the complexity and hazards associated with the work, the Contractor may choose not to require the subcontractor to submit a Safety Management System for the Contractor's review and approval.

I.132 - DEAR 970.5223-4 WORKPLACE SUBSTANCE ABUSE PROGRAMS AT DOE SITES (DEC 2010) (PREV. I.88)

- (a) *Program Implementation.* The Contractor shall, consistent with 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, incorporated herein by reference with full force and effect, develop, implement, and maintain a workplace substance abuse program.
- (b) *Remedies.* In addition to any other remedies available to the Government, the Contractor's failure to comply with the requirements of 10 CFR part 707 or to perform in a manner consistent with its approved program may render the Contractor subject to: the suspension of contract payments, or, where applicable, a reduction in award fee; termination for default; and suspension or debarment.
- (c) *Subcontracts.*
 - (1) The Contractor agrees to notify the Contracting Officer reasonably in advance of, but not later than 30 days prior to, the award of any subcontract the Contractor believes may be subject to the requirements of 10 CFR part 707, unless the Contracting Officer agrees to a different date.
 - (2) The DOE Prime Contractor shall require all subcontracts subject to the provisions of 10 CFR part 707 to agree to develop and implement a

workplace substance abuse program that complies with the requirements of 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, as a condition for award of the subcontract. The DOE Prime Contractor shall review and approve each subcontractor's program, and shall periodically monitor each subcontractor's implementation of the program for effectiveness and compliance with 10 CFR part 707.

- (3) The Contractor agrees to include, and require the inclusion of, the requirements of this clause in all subcontracts, at any tier, that are subject to the provisions of 10 CFR part 707.

I.133 - DEAR 970.5223-7 SUSTAINABLE ACQUISITION PROGRAM (OCT 2010)
(PREV. I.140)

- (a) Pursuant to Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance, the Department of Energy (DOE) is committed to managing its facilities in an environmentally preferable and sustainable manner that will promote the natural environment and protect the health and well being of its Federal employees and contractor service providers. In the performance of work under this contract, the Contractor shall provide its services in a manner that promotes the natural environment, reduces greenhouse gas emissions and protects the health and well being of Federal employees, contract service providers and visitors using the facility.
- (b) Green purchasing or sustainable acquisition has several interacting initiatives. The Contractor must comply with initiatives that are current as of the contract award date. DOE may require compliance with revised initiatives from time to time. The Contractor may request an equitable adjustment to the terms of its contract using the procedures at 48 CFR 970.5243-1 Changes. The initiatives important to these Orders are explained on the following Government or Industry Internet Sites:
 - (1) Recycled Content Products are described at <http://epa.gov/cpg>
 - (2) Biobased Products are described at <http://www.biopreferred.gov/>
 - (3) Energy efficient products are at <http://energystar.gov/products> for Energy Star products
 - (4) Energy efficient products are at <http://www.femp.energy.gov/procurement> for FEMP designated products

- (5) Environmentally preferable and energy efficient electronics including desktop computers, laptops and monitors are at <http://www.epeat.net> the Electronic Products Environmental Assessment Tool (EPEAT) the Green Electronics Council site
 - (6) Green house gas emission inventories are required, including Scope 3 emissions which include contractor emissions. These are discussed at Section 13 of Executive Order 13514 which can be found at <http://www.archives.gov/federal-register/executive-orders/disposition.html>
 - (7) Non-Ozone Depleting Alternative Products are at <http://www.epa.gov/ozone/strathome.html>
 - (8) Water efficient plumbing products are at <http://epa.gov/watersense>
- (c) The clauses at FAR 52.223-2, Affirmative Procurement of Biobased Products under Service and Construction Contracts, 52.223-15, Energy Efficiency in Energy Consuming Products, and 52.223-17 Affirmative Procurement of EPA-Designated Items in Service and Construction Contracts, require the use of products that have biobased content, are energy efficient, or have recycled content. To the extent that the services provided by the Contractor require provision of any of the above types of products, the Contractor must provide the energy efficient and environmentally sustainable type of product unless that type of product—
- (1) Is not available;
 - (2) Is not life cycle cost effective (or does not exceed 110% of the price of alternative items if life cycle cost data is unavailable), EPEAT is an example of lifecycle costs that have been analyzed by DOE and found to be acceptable at the silver and gold level;
 - (3) Does not meet performance needs; or,
 - (4) Cannot be delivered in time to meet a critical need.
- (d) In the performance of this contract, the Contractor shall comply with the requirements of Executive Order 13423, Strengthening Federal Environmental, Energy and Transportation Management, (<http://www.epa.gov/greeningepa/practices/eo13423.htm>) and Executive Order 13514, Federal Leadership in Environmental, Energy, and Economic Performance (<http://www.archives.gov/federal-register/executive-orders/disposition.html>). The Contractor shall also consider the best practices within the DOE Acquisition Guide, Chapter 23, Acquisition Considerations Regarding Federal Leadership in Environmental, Energy, and Economic

Performance. This guide includes information concerning recycled content products, biobased products, energy efficient products, water efficient products, alternative fuels and vehicles, non-ozone depleting substances and other environmentally preferable products and services. This guide is available on the Internet at: <http://management.energy.gov/documents/AcqGuide23pt0Rev1.pdf>.

- (e) Contractors must establish and maintain a documented energy management program which includes requirements for energy and water efficient equipment, EnergyStar or WaterSense, as applicable and procedures for verification of purchases, following the criteria in DOE Order 430.2B, Departmental Energy, Renewable Energy, and Transportation Management, Attachment 1, or its successor. This requirement should not be flowed down to subcontractors.
- (f) In complying with the requirements of paragraph (c) of this clause, the Contractor shall coordinate its activities with and submit required reports through the Environmental Sustainability Coordinator or equivalent position.
- (g) The Contractor shall prepare and submit performance reports using prescribed DOE formats, at the end of the Federal fiscal year, on matters related to the acquisition of environmentally preferable and sustainable products and services. This is a material delivery under the contract. Failure to perform this requirement may be considered a failure that endangers performance of this contract and may result in termination for default [see FAR 52.249-6, Termination (Cost Reimbursement)].
- (h) These provisions shall be flowed down only to first tier subcontracts exceeding the simplified acquisition threshold that support operation of the DOE facility and offer significant subcontracting opportunities for energy efficient or environmentally sustainable products or services. The Subcontractor will comply with the procedures in paragraphs (c) through (f) of this clause regarding the collection of all data necessary to generate the reports required under paragraphs (c) through (f) of this clause, and submit the reports directly to the Prime Contractor's Environmental Sustainability Coordinator at the supported facility. The Subcontractor will advise the Contractor if it is unable to procure energy efficient and environmentally sustainable items and cite which of the reasons in paragraph (c) of this clause apply. The reports may be submitted at the conclusion of the subcontract term provided that the subcontract delivery term is not multi-year in nature. If the delivery term is multi-year, the Subcontractor shall report its accomplishments for each Federal fiscal year in a manner and at a time or times acceptable to both parties. Failure to comply with these reporting requirements may be considered a breach of contract with attendant consequences.
- (i) When this clause is used in a subcontract, the word "Contractor" will be understood to mean "Subcontractor."

I.134 - DEAR 970.5225-1 COMPLIANCE WITH EXPORT CONTROL LAWS AND REGULATIONS (NOV 2015) (PREV. I.158)

- (a) The Contractor shall comply with all applicable U.S. export control laws and regulations.
- (b) The Contractor's responsibility to comply with all applicable laws and regulations exists independent of, and is not established or limited by, the information provided by this clause.
- (c) Nothing in the terms of this contract adds to, changes, supersedes, or waives any of the requirements of applicable Federal laws, Executive Orders, and regulations, including but not limited to--
 - (1) The Atomic Energy Act of 1954, as amended;
 - (2) The Arms Export Control Act (22 U.S.C. 2751 et seq.);
 - (3) The Export Administration Act of 1979 (50 U.S.C. app. 2401 et seq.), as continued under the International Emergency Economic Powers Act (Title II of Pub. L. 95-223, 91 Stat. 1626, October 28, 1977; 50 U.S.C. 1701 et seq.);
 - (4) Trading with the Enemy Act (50 U.S.C. App. 5(b), as amended by the Foreign Assistance Act of 1961);
 - (5) Assistance to Foreign Atomic Energy Activities (10 CFR part 810);
 - (6) Export and Import of Nuclear Equipment and Material (10 CFR part 110);
 - (7) International Traffic in Arms Regulations (ITAR) (22 CFR parts 120 through 130);
 - (8) Export Administration Regulations (EAR) (15 CFR parts 730 through 774); and
 - (9) Regulations administered by the Office of Foreign Assets Control (31 CFR parts 500 through 598).
- (d) In addition to the Federal laws and regulations cited above, National Security Decision Directive (NSDD) 189, National Policy on the Transfer of Scientific, Technical, and Engineering Information establishes a national policy that, to the maximum extent possible, the products of fundamental research shall remain unrestricted. NSDD 189 provides that no restrictions may be placed upon the conduct or reporting of federally funded fundamental research that has not received national security classification, except as provided in applicable U.S.

statutes. As a result, contracts confined to the performance of unclassified fundamental research generally do not involve any export-controlled activities. NSDD 189 does not take precedence over statutes. NSDD 189 does not exempt any research from statutes that apply to export controls such as the Atomic Energy Act, as amended; the Arms Export Control Act; the Export Administration Act of 1979, as amended; or the U.S. International Emergency Economic Powers Act; or the regulations that implement those statutes (e.g., the ITAR, the EAR, 10 CFR part 110 and 10 CFR part 810). Thus, if items (e.g., commodities, software or technologies) that are controlled by U.S. export control laws or regulations are used to conduct research or are generated as part of the research efforts, the export control laws and regulations apply to the controlled items.

- (e) The Contractor shall include the substance of this clause, including this paragraph (e), in all solicitations and subcontracts.

I.135 - DEAR 970.5226-1 DIVERSITY PLAN (DEC 2000) (PREV. I.89)

The Contractor shall submit a Diversity Plan to the Contracting Officer for approval within 90 days after the effective date of this contract (or contract modification, if appropriate). The Contractor shall submit an update to its Plan annually. By February 1 of each fiscal year, DOE will issue its guidance to the Contractor for the annual Diversity Plan for the fiscal year. The Contractor shall submit its annual Diversity Plan to DOE no later than April 16 of each year. The Plan shall include innovative strategies for increasing opportunities to fully use the talents and capabilities of a diverse work force. The Plan shall address, at a minimum, the Contractor's approach for promoting diversity through (1) the Contractor's work force, (2) educational outreach, (3) community involvement and outreach, (4) subcontracting, (5) economic development (including technology transfer), and (6) the prevention of profiling based on race or national origin.

I.136 - DEAR 970.5226-3 COMMUNITY COMMITMENT (DEC 2000) (PREV. I.90)

It is the policy of the DOE to be a constructive partner in the geographic region in which DOE conducts its business. The basic elements of this policy include: (1) Recognizing the diverse interests of the region and its stakeholders, (2) engaging regional stakeholders in issues and concerns of mutual interest, and (3) recognizing that giving back to the community is a worthwhile business practice. Accordingly, the Contractor agrees that its business operations and performance under the Contract will be consistent with the intent of the policy and elements set forth above.

I.137 - DEAR 970.5227-2 RIGHTS IN DATA --TECHNOLOGY TRANSFER (DEC 2000)
[SC ALTERNATE SEP 2018] (PREV. I.91)

- (a) *Definitions. Assistant General Counsel for Technology Transfer and Intellectual Property* is the senior intellectual property counsel for the Department of Energy, as distinguished from the NNSA Patent Counsel, and, where used in this clause, indicates that the authority for the activity(ies) being described belongs to DOE.

Computer data bases, as used in this clause, means a collection of data in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.

Computer software, as used in this clause, means (i) computer programs which are data comprising a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations and (ii) data comprising source code listings, design details, algorithms, processes, flow charts, formulae, and related material that would enable the computer program to be produced, created, or compiled. The term does not include computer data bases.

Data, as used in this clause, means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term "data" does not include data incidental to the administration of this contract, such as financial, administrative, cost and pricing, or management information.

Department of Energy (DOE), as used in this clause, includes the National Nuclear Security Administration (NNSA), unless otherwise identified or indicated.

Limited rights data, as used in this clause, means data, other than computer software, developed at private expense that embody trade secrets or are commercial or financial and confidential or privileged. The Government's rights to use, duplicate, or disclose limited rights data are as set forth in the Limited Rights Notice of paragraph ~~(g)~~ (h) of this clause.

Open source software, as used in this clause, means computer software that is distributed under a license in which the user is granted the right to use, copy, modify, prepare derivative works and distribute, in source code or other format, the software, in original or modified form and derivative works thereof, without having to make royalty payments.

Patent Counsel means the DOE or NNSA Patent Counsel assisting the contracting activity.

Restricted computer software, as used in this clause, means computer software developed at private expense and that is a trade secret; is commercial or

financial and is confidential or privileged; or is published copyrighted computer software, including minor modifications of any such computer software. The Government's rights to use, duplicate, or disclose restricted computer software are as set forth in the Restricted Rights Notice of paragraph (i) of this clause.

Technical data, as used in this clause, means recorded data, regardless of form or characteristic, that are of a scientific or technical nature. Technical data does not include computer software, but does include manuals and instructional materials and technical data formatted as a computer data base.

Unlimited rights, as used in this clause, means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, including by electronic means, and perform publicly and display publicly, in any manner, including by electronic means, and for any purpose whatsoever, and to have or permit others to do so.

(b) *Allocation of Rights.*

(1) The Government shall have:

- (i) Ownership of all technical data and computer software first produced in the performance of this Contract;
- (ii) Unlimited rights in technical data and computer software first produced or specifically used in the performance of this Contract, except as provided herein regarding copyright, limited rights data, or restricted computer software, and except for data subject to the withholding provisions for protected Cooperative Research and Development Agreement (CRADA) information in accordance with Technology Transfer actions under this Contract, or other data specifically protected by statute for a period of time or, where approved by Patent Counsel, appropriate instances of the DOE Strategic Partnership Projects (SPP) Program;
- (iii) The right to inspect technical data and computer software first produced or specifically used in the performance of this Contract at all reasonable times. The Contractor shall make available all necessary facilities to allow DOE personnel to perform such inspection;
- (iv) The right to have all technical data and computer software first produced or specifically used in the performance of this Contract delivered to the Government or otherwise disposed of by the Contractor, either as the contracting officer may from time to time direct during the progress of the work or in any event as the contracting officer shall direct upon completion or termination of this

Contract. The Contractor agrees to leave a copy of such data at the facility or plant to which such data relate, and to make available for access or to deliver to the Government such data upon request by the contracting officer. If such data are limited rights data or restricted computer software, the rights of the Government in such data shall be governed solely by the provisions of paragraph (h) of this clause ("Rights in Limited Rights Data") or paragraph (i) of this clause ("Rights in Restricted Computer Software"). When delivering all contractor produced computer software to the DOE Office of Scientific and Technical Information (OSTI), the Contractor shall submit a complete package as prescribed in paragraph (e)(3) of this clause; and

- (v) The right to remove, cancel, correct, or ignore any markings not authorized by the terms of this Contract on any data furnished hereunder if, in response to a written inquiry by DOE concerning the propriety of the markings, the Contractor fails to respond thereto within 60 days or fails to substantiate the propriety of the markings. In either case DOE will notify the Contractor of the action taken.
- (2) The Contractor shall have:
- (i) The right to withhold limited rights data and restricted computer software unless otherwise provided in provisions of this clause;
 - (ii) The right to use for its private purposes, subject to patent, security or other provisions of this Contract, data it first produces in the performance of this Contract, except for data in DOE's Uranium Enrichment Technology, including diffusion, centrifuge, and atomic vapor laser isotope separation, provided the data requirements of this Contract have been met as of the date of the private use of such data; and
 - (iii) The right to assert copyright subsisting in scientific and technical works, and works produced by Contractor under DEAR 952.204-75, as provided in paragraph (d) of this clause, and the right to request permission to assert copyright subsisting in works other than scientific and technical works as provided in paragraph (e) of this clause.
- (3) The Contractor agrees that for limited rights data or restricted computer software or other technical business or financial data in the form of recorded information which it receives from, or is given access to by DOE or a third party, including a DOE contractor or subcontractor, and for technical data or computer software it first produces under this Contract

which is authorized to be marked by DOE, the Contractor shall treat such data in accordance with any restrictive legend contained thereon.

- (4) In the performance of DOE contracted obligations, the Contractor is required to manage scientific and technical information (STI) produced under the contract as a direct and integral part of the work and ensure its broad availability to all customer segments by making STI available to DOE's central STI coordinating office (OSTI) per DOE O 241.1B or its successor version.

(c) *Copyright (General).*

- (1) The Contractor agrees not to mark, register, or otherwise assert copyright in any data in a published or unpublished work, other than as set forth in paragraphs (d), (e) or (f) of this clause.
- (2) Except for material to which the Contractor has obtained the right to assert copyright in accordance with either paragraph paragraphs (d), (e) or (f) of this clause, the Contractor agrees not to include in the data delivered under this Contract any material copyrighted by the Contractor and not to knowingly include any material copyrighted by others without first granting or obtaining at no cost a license therein for the benefit of the Government of the same scope as set forth in paragraph (d) of this clause. If the Contractor believes that such copyrighted material for which the license cannot be obtained must be included in the data to be delivered, rather than merely incorporated therein by reference, the Contractor shall obtain the written authorization of the contracting officer to include such material in the data prior to its delivery.
- (3) If the Contractor has not been granted permission to copyright data or computer software first produced under the contract where such permission is necessary and if the Government desires to obtain copyright in such data or computer software, the Contracting Officer may direct the Contractor to establish claim to copyright in such data or computer software and to assign such copyright to the Government or its designated assignee.

(d) *Copyrighted works (scientific and technical works).*

- (1) The Contractor shall have the right to assert, without prior approval of the contracting officer, copyright subsisting in scientific and technical works composed under this contract or based on or containing data first produced by the Contractor in the performance of this Contract, and published in academic, technical or professional journals, symposia, proceedings, contributions to chapters of book compilations or similar means of dissemination to make broadly available to the public or

scientific community for the purpose of scientific research, knowledge and education. Such scientific and technical works may be recorded or fixed in any medium including but not limited to print, online, web, audio, video or other medium, and released or disseminated through any communication or distribution channel including but not limited to articles, reports, books, non-architectural drawings, repositories, videos, websites, workshops, or social media.

When assertion of copyright is made, the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 and acknowledgment of Government sponsorship (including contract number) on the data when such data are delivered to the Government as well as when the data are published or deposited for registration as a published work in the U.S. Copyright Office. The Contractor grants to the Government, and others acting on its behalf, a nonexclusive, paid-up, irrevocable, world-wide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.

- (2) For each scientific or technical work first produced or composed under this Contract and submitted for publication or similar means of dissemination, the contractor shall provide notice to the publisher of the Government's license in the copyright that is substantially similar to or otherwise references one of the notices below:

A suitable notice (long version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright;

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the work for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this work, or allow others to do so, for United States Government purposes. The Department of Energy will provide public access to these results of federally sponsored research in accordance with the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

A suitable notice (short version) reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright follows:

Notice: This work was produced by [insert the name of the Contractor] under Contract No. [insert the contract number] with the

U.S. Department of Energy. Publisher acknowledges the U.S. Government license and provide public access under the DOE Public Access Plan (<http://energy.gov/downloads/doe-public-access-plan>).

(End of Notice)

- (3) The title to the copyright of the original of unclassified graduate theses and the original of related unclassified scientific papers shall vest in the author thereof, subject to the right of DOE to retain duplicates of such documents and to use such documents for any purpose whatsoever without any claim on the part of the author or the contractor for additional compensation.
- (e) *Copyrighted works (other than scientific and technical works and data produced under a CRADA).* The Contractor may obtain permission to assert copyright subsisting in technical data and computer software first produced by the Contractor in performance of this Contract, when the Contractor needs to control distribution to advance the goals of the technology transfer mission and where the Contractor can show that commercialization would be enhanced by such copyright protection, subject to the following:
 - (1) Contractor Request to Assert Copyright.
 - (i) Except for scientific and technical works under (d) above and data produced under a CRADA, the Contractor shall submit in writing to Patent Counsel its request to assert copyright in data first produced in the performance of this Contract pursuant to this clause. The right of the Contractor to copyright data first produced under a CRADA is as described in the individual CRADA. Each request by the Contractor must include:
 - (A) The identity of the data (including any computer software) for which the Contractor requests permission to assert copyright, as well as an abstract which is descriptive of the data and is suitable for dissemination purposes,
 - (B) The funding program under which it was funded,
 - (C) Whether, to the best knowledge of the Contractor, the data is subject to an international treaty or agreement,
 - (D) Whether the data is subject to export control,
 - (E) A statement that the Contractor plans to commercialize the data in compliance with the clause of this contract entitled, "Technology Transfer Mission," within five (5) years after obtaining permission to assert copyright or, on a case-by-case basis, a specified longer period where the Contractor

can demonstrate that the ability to commercialize effectively is dependent upon such longer period, and

- (F) For data other than computer software, a statement explaining why the assertion of copyright is necessary to enhance commercialization and is consistent with DOE's dissemination responsibilities.
- (ii) For data that is developed using other funding sources in addition to DOE funding, the permission to assert copyright in accordance with this clause must also be obtained by the Contractor from all other funding sources prior to the Contractor's request to Patent Counsel. The request shall include the Contractor's certification or other documentation acceptable to Patent Counsel demonstrating such permission has been obtained.
- (iii) Permission for the Contractor to assert copyright in excepted categories of data as determined exclusively by DOE will be expressly withheld. Such excepted categories include data whose release (A) would be detrimental to national security, i.e., classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act of 1954, as amended, or are subject to export control for nonproliferation and other nuclear-related national security purposes, (B) would not enhance the appropriate transfer or dissemination and commercialization of such data, (C) would have a negative impact on U.S. industrial competitiveness; (D) would prevent DOE from meeting its obligations under treaties and international agreements, or (E) would be detrimental to one or more of DOE's programs.
- (iv) The Contractor will obtain the advanced written permission of the Patent Counsel to assert copyright where data are determined to be in the following excepted categories: (a) under export control restrictions, (b) developed with Naval Reactors' funding, (c) subject to disposition of data rights under treaties and international agreements. Additional excepted categories may be added by the Assistant General Counsel for Technology Transfer and Intellectual Property. Where data are determined to be under export control restriction, the Contractor may obtain permission to assert copyright subject to the provisions of this clause for purposes of limited commercialization in a manner that complies with export control statutes and applicable regulations. In addition, notwithstanding any other provision of this Contract, all data developed with Naval Reactors' funding and those data that are classified fall within excepted categories. The rights of the Contractor in data are subject to the disposition of data rights in the treaties and

international agreements identified at DOE's Office of International Affairs (International Commitments—IEC) (<http://energy.gov/ia/iec-documents>).

- (2) Patent Counsel—Review and Response to Contractor's Request. The Patent Counsel shall use its best efforts to respond in writing within 60 days of receipt of a complete request by the Contractor to assert copyright in technical data and computer software pursuant to this clause. Such response shall either give or withhold DOE's permission for the Contractor to assert copyright or advise the Contractor that DOE needs additional time to respond, and the reasons therefor. If Patent Counsel grants permission for the Contractor to assert copyright in computer software, the permission automatically extends to subsequent minor versions (e.g., minor revisions, patches and bug fixes) having the same funding source, same name and substantially same functionality as the original computer software, and may be extended to subsequent major versions representing significant modifications of the program with the approval of Patent Counsel.
- (3) Permission for Contractor to Assert Copyright.
 - (i) For computer software, the Contractor shall furnish, or make available, to OSTI in accordance with OSTI guidelines at the time permission to assert copyright is given under paragraph (e)(2) of this clause:
 - (A) announcement information/metadata contained in the Software Announcement Notice 241,
 - (B) the source code and executable file for each software program, and
 - (C) documentation, if any, which may consist of a user manual, sample test cases, or similar information, needed by a technically competent user to understand and use the software (whether included on the software media itself or provided in a separate file or in paper format).
 - (ii) The Contractor acknowledges that the DOE designated software distribution and control point may provide a technical description of the software in an announcement identifying its availability from the copyright holder.
 - (iii) Unless otherwise directed by the Patent Counsel, for data other than computer software to which the Contractor has received permission to assert copyright under paragraph (e)(2) of this clause

above, the Contractor shall within sixty (60) days of obtaining such permission furnish, or make available, to OSTI in accordance with OSTI guidelines, a copy of such data as well as an abstract of the data suitable for dissemination purposes. The Contractor acknowledges that OSTI may provide an abstract of the data in an announcement to DOE, its contractors and to the public identifying its availability from the copyright holder.

- (iv) Once the Contractor is given permission to assert copyright in data, the Contractor may begin to commercialize the copyrighted data by making copyrighted data available for licensing to third parties and by offering other types of distribution to third parties. During the period in which commercialization activities pertaining to the copyrighted data are continuing, or for a specified period of time prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, prepare derivative works and perform publicly and display publicly, by or on behalf of the Government. For all previously approved and current copyrighted data that the Contractor is actively commercializing, the Contractor may continue to commercialize in accordance with this paragraph.
- (v) When the Contractor abandons commercialization activities pertaining to the copyrighted data or at the end of the specified periods as prescribed by Patent Counsel in paragraph (e)(2) above, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.
- (vi) If at any time the Contractor abandons commercialization activities for copyrighted data, it shall notify OSTI and Patent Counsel, and upon request assign the copyright to the Government, so that the Government can distribute the data to the public. When the Contractor abandons commercialization activities, the Contractor will provide to OSTI the latest version of the copyrighted data (for example, source code, object code, minimal support documentation, drawings or updated manuals). In addition, the Contractor will provide annually to Patent Counsel, if requested, a list of all copyrighted data that the Contractor has abandoned commercial licensing activity during that year.
- (vii) Whenever the Contractor asserts copyright in data pursuant to this paragraph (e), the Contractor shall affix the applicable copyright

notice of 17 U.S.C. 401 or 402 on the copyrighted data and also an acknowledgment of the Government sponsorship and license rights of paragraphs (e)(3)(iv) and (v) of this clause. Such action shall be taken when the data are delivered to the Government, licensed or deposited for registration as a published work in the U.S. Copyright Office, or when submitted for publication. The acknowledgment of Government sponsorship and license rights shall be substantially similar to the following:

Notice: These data were produced by (insert name of Contractor) under Contract No. _____ with the Department of Energy. During the period of commercialization or such other time period specified by DOE, the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, and perform publicly and display publicly, by or on behalf of the Government. Subsequent to that period, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, distribute copies to the public, perform publicly and display publicly, and to permit others to do so. The specific term of the license can be identified by inquiry made to Contractor or DOE. NEITHER THE UNITED STATES NOR THE UNITED STATES DEPARTMENT OF ENERGY, NOR ANY OF THEIR EMPLOYEES, MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LEGAL LIABILITY OR RESPONSIBILITY FOR THE ACCURACY, COMPLETENESS, OR USEFULNESS OF ANY DATA, APPARATUS, PRODUCT, OR PROCESS DISCLOSED, OR REPRESENTS THAT ITS USE WOULD NOT INFRINGE PRIVATELY OWNED RIGHTS.

(End of notice)

- (viii) With respect to any data to which the Contractor has received permission to assert copyright, the DOE has the right, during the period that Contractor is commercializing the software as provided for in paragraph (e)(3)(iv) of this clause, to request the Contractor to grant a nonexclusive, partially exclusive or exclusive license in any field of use to a responsible applicant(s) upon terms that are reasonable under the circumstances, and if the Contractor refuses such request, to grant such license itself, if the DOE determines that the Contractor has not made a satisfactory demonstration that either it or its licensee(s) is actively pursuing commercialization of the data as set forth in subparagraph (e)(1)(i) of this clause. Before licensing under this subparagraph (viii), DOE shall furnish the Contractor a written request for the Contractor to grant the stated

license, and the Contractor shall be allowed thirty (30) days (or such longer period as may be authorized by the contracting officer for good cause shown in writing by the Contractor) after such notice to show cause why the license should not be granted. The Contractor shall have the right to appeal the decision of the DOE to grant the stated license to the Invention Licensing Appeal Board as set forth in 10 CFR 781.65—"Appeals."

- (ix) No costs shall be allowable for maintenance of copyrighted data, primarily for the benefit of the Contractor and/or a licensee which exceeds DOE Program needs, except as expressly provided in writing by the contracting officer. The Contractor may use its net royalty income to effect such maintenance costs.

- (4) The following notice may be included in computer software prior to any publication or release and prior to the Contractor's obtaining permission from the Department of Energy to assert copyright in the computer software pursuant to paragraph (c)(3) of this section.

Notice: This computer software was prepared by [insert the Contractor's name and the individual author], hereinafter the Contractor, under Contract [insert the Contract Number] with the Department of Energy (DOE). All rights in the computer software are reserved by DOE on behalf of the United States Government and the Contractor as provided in the Contract. You are authorized to use this computer software for Governmental purposes but it is not to be released or distributed to the public. NEITHER THE GOVERNMENT NOR THE CONTRACTOR MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LIABILITY FOR THE USE OF THIS SOFTWARE. This notice including this sentence must appear on any copies of this computer software.

(End of notice)

- (5) A similar notice can be used for data, other than computer software, prior to any publication or release and prior to Contractor's obtaining permission of DOE Patent Counsel to assert copyright.
- (f) *Open software source.* The Contractor may release computer software first produced by the Contractor in the performance of this contract under an open source software license. Such software shall hereinafter be referred to as open source software or OSS, subject to the following:
 - (1) *DOE Program notice for copyright assertion for OSS.*

- (i) The Contractor shall provide written notice to each DOE Program(s) that have provided a substantial portion of the funding (funding source(s)) to develop the software that the Contractor intends to release as OSS unless the funding Program(s) have previously provided blanket approval for all software developed with funding from that Program or a specific DOE project stipulates the software to be released as OSS. Unless Program has objected to the assertion of copyright within ten working days of such written notice, the Contractor may assert copyright in the software. If notification to funding DOE Program(s) is not practicable, the Contractor shall consult with Patent Counsel, which may provide approval. For software developed under a CRADA, User Facility Agreement, or SPP Agreement, authorization from the CRADA Participant(s) or User Facility User(s), or SPP Sponsor(s), as applicable, shall be additionally obtained for OSS release unless such Agreement has a provision providing for copyright.
 - (ii) If the software is developed with funding from a federal government agency or agencies (funding source(s)) other than DOE, then authorization from all the funding agency(ies) shall be obtained for OSS release, if practicable. Such federal government_agency(ies) may provide blanket approval for all software developed with funding from that agency(ies). However, OSS release of any one of such software shall be subject to approval by all other funding sources for the software, if any. If approval from such federal government agency(ies) is not practicable, the Patent Counsel may provide approval instead.
- (2) *Assert copyright in the OSS.* Once the Contractor has met the Program and sponsor approval requirements set forth in accordance with paragraph (f)(1) of this clause, copyright in the software to be distributed as OSS, may be asserted by the Contractor, or, for OSS developed under a CRADA or, User Facility, Agreement, or SPP Agreement, copyright in the software to be distributed as OSS may be asserted either by the Contractor, CRADA Participant, or User Facility User, or SPP Sponsor, as applicable, which whereby such assertion precludes marking such OSS as Protected from public distribution.
- (3) *Submit Software Announcement Notice 241.4 for OSS to OSTI.* The Contractor must submit the Software Announcement Notice (AN) 241.4 (or the current notice as may be required by DOE) to DOE's OSTI, which may require the unique URL (i.e., a persistent identifier) from which the software can be obtained so that OSTI can announce the availability of the OSS and the public has access via the URL.

- (4) *Maintain OSS record.* The Contractor must maintain adequate records of all software distributed as OSS. Upon request of the Patent Counsel, the Contractor shall provide the necessary information regarding any or all OSS.
- (5) *Provide public access to the OSS.* The Contractor shall ensure that the OSS is publicly accessible as open source via the Contractor's website, DOE, software repositories or other industry methods.
- (6) *Select an OSS license.* Each OSS will be distributed pursuant to an OSS license. The Contractor may choose among industry standard OSS licenses or create its own set of Contractor standard licenses. To assist the Contractor, the Assistant General Counsel for Technology Transfer and Intellectual Property, may periodically issue guidance on OSS licenses. Each Contractor-created OSS license, must contain, at a minimum, the following provisions:
 - (i) An industry standard disclaimer for licensees' and third parties' use of the software; and
 - (ii) A grant of permission for licensee to distribute OSS containing the licensee's derivative works. This provision may allow the licensee and third parties to commercialize their derivative works or might request that the licensee's derivative works be forwarded to the Contractor for incorporation into future OSS versions.
- (7) Collection of administrative costs is permissible. However, the Contractor may not collect a royalty or other fee in excess of a good faith amount for cost recovery from any licensee for the Contractor's OSS.
- (8) *Relationship to other required clauses in the contract.* OSS distributed in accordance with this section shall not be subject to the requirements relating to indemnification of the Contractor or Federal Government, U.S. Competitiveness and U.S. Preference, as set forth in paragraphs (f) and (g) of the clause within this contract entitled Technology Transfer Mission (48 CFR 970.5227-3). The requirement for the Contractor to request permission to assert copyright for the purpose of engaging in licensing software for royalties, as set forth elsewhere in this clause, is not modified by this section.
- (9) *Government license.* For all OSS, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in data copyrighted to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.

- (10) *Contractor abandons OSS.* If the Contractor ceases to make OSS publicly available, then the Contractor shall submit to OSTI the object code and source code of the latest version of the OSS developed by the Contractor in addition to a revised Announcement Notice 241.4 (which includes an abstract) and the Contractor shall direct any inquiries from third parties seeking to obtain the original OSS to OSTI.
- (g) *Subcontracting.*
- (1) Unless otherwise directed by the contracting officer, the Contractor agrees to use in subcontracts in which technical data or computer software is expected to be produced or in subcontracts for supplies that contain a requirement for production or delivery of data in accordance with the DOE policy and procedures by using "Rights in Data-General" at 48 CFR 52.227-14 modified in accordance with 927.409(a) and including Alternate V. Other modifications (e.g., Alternates II through IV of that clause or using "Special Works" at 48 CFR 52.227-17) may be made with the approval of the Patent Counsel. The Contractor shall not acquire rights in a subcontractor's limited rights data or restricted computer software, except through the use of Alternates II or III, respectively, without the prior approval of the Patent Counsel. The clause at 48 CFR 52.227-16, Additional Data Requirements, shall be included in subcontracts in accordance with 48 CFR 927.409(h). In subcontracts, including subcontracts for related support services, involving the design or operation of any plants or facilities or specially designed equipment for such plants or facilities that are managed or operated under its contract with DOE, the Contractor shall instead use the "Rights in Data-Facilities" clause at 48 CFR 970.5227-1.
- (2) It is the responsibility of the Contractor to obtain from its subcontractors technical data and computer software and rights therein, on behalf of the Government, necessary to fulfill the Contractor's obligations to the Government with respect to such data. In the event of refusal by a subcontractor to accept a clause affording the Government such rights, the Contractor shall: (i) Promptly submit written notice to the contracting officer setting forth reasons or the subcontractor's refusal and other pertinent information which may expedite disposition of the matter, and (ii) Not proceed with the subcontract without the written authorization of the contracting officer.
- (3) Neither the Contractor nor higher-tier subcontractors shall use their power to award subcontracts as economic leverage to acquire rights in a subcontractor's limited rights data and restricted computer software for their private use.

- (h) *Rights in Limited Rights Data.* Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable nonexclusive, paid-up license by or for the Government, in any limited rights data of the Contractor specifically used in the performance of this Contract, provided, however, that to the extent that any limited rights data when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Limited Rights Notice" set forth below. All such limited rights data shall be marked with the following "Limited Rights Notice."

Limited Rights Notice

These data contain "limited rights data," furnished under Contract No. _____ with the United States Department of Energy which may be duplicated and used by the Government with the express limitations that the "limited rights data" may not be disclosed outside the Government or be used for purposes of manufacture without prior permission of the Contractor, except that further disclosure or use may be made solely for the following purposes:

- (a) Use (except for manufacture) by support services contractors within the scope of their contracts; (b) This "limited rights data" may be disclosed for evaluation purposes under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; (c) This "limited rights data" may be disclosed to other contractors participating in the Government's program of which this Contract is a part for information or use (except for manufacture) in connection with the work performed under their contracts and under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; (d) This "limited rights data" may be used by the Government or others on its behalf for emergency repair or overhaul work under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; and (e) Release to a foreign government, or instrumentality thereof, as the interests of the United States Government may require, for information or evaluation, or for emergency repair or overhaul work by such government. This Notice shall be marked on any reproduction of this data in whole or in part.

(End of Notice)

- (i) Rights in restricted computer software.
- (1) Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up, license by

or for the Government, in any restricted computer software of the Contractor specifically used in the performance of this Contract; provided, however, that to the extent that any restricted computer software when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Restricted Rights Notice" set forth below. All such restricted computer software shall be marked with the following "Restricted Rights Notice:"

Restricted Rights Notice - Long Form (a) This computer software is submitted with restricted rights under Department of Energy Contract No. _____. It may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b) of this notice. (b) This computer software may be: (1) Used or copied for use in or with the computer or computers for which it was acquired, including use at any Government installation to which such computer or computers may be transferred; (2) Used, copied for use, in a backup or replacement computer if any computer for which it was acquired is inoperative or is replaced; (3) Reproduced for safekeeping (archives) or backup purposes; (4) Modified, adapted, or combined with other computer software, provided that only the portions of the derivative software consisting of the restricted computer software are to be made subject to the same restricted rights; and (5) Disclosed to and reproduced for use by contractors under a service contract (of the type defined in 48 CFR 37.101) in accordance with subparagraphs (b)(1) through (4) of this Notice, provided the Government makes such disclosure or reproduction subject to these restricted rights. (c) Notwithstanding the foregoing, if this computer software has been published under copyright, it is licensed to the Government, without disclosure prohibitions, with the rights set forth in the restricted rights notice above. (d) This Notice shall be marked on any reproduction of this computer software, in whole or in part.
(End of notice)

- (2) Where it is impractical to include the Restricted Rights Notice on restricted computer software, the following short-form Notice may be used in lieu thereof:

Restricted Rights Notice - Short Form Use, reproduction, or disclosure is subject to restrictions set forth in the Long Form Notice of DOE Contract No. ____ with (name of Contractor).
(End of notice)

- (3) If the software is embedded, or if it is commercially impractical to mark it with human readable text, then the symbol R and the clause date (mo/yr)

in brackets or a box, e.g., a [R-mo/yr], may be used. This will be read to mean restricted computer software, subject to the rights of the Government as described in the Long Form Notice, in effect as of the date indicated next to the symbol. The symbol shall not be used to mark human readable material. In the event this Contract contains any variation to the rights in the Long Form Notice, then the contract number must also be cited.

- (4) If restricted computer software is delivered with the copyright notice of 17 U.S.C. 401, the software will be presumed to be published copyrighted computer software licensed to the Government without disclosure prohibitions and with unlimited rights, unless the Contractor includes the following statement with such copyright notice "Unpublished-rights reserved under the Copyright Laws of the United States."
- (j) *Relationship to patents.* Nothing contained in this clause creates or is intended to imply a license to the Government in any patent or is intended to be construed as affecting the scope of any licenses or other rights otherwise granted to the Government under any patent.

I.138 - DEAR 970.5227-3 TECHNOLOGY TRANSFER MISSION (AUG 2019) [SC
ALTERNATE APR 2018] (PREV. I.92)

This clause has as its purpose implementation of the National Competitiveness Technology Transfer Act of 1989 (Sections 3131, 3132, 3133, and 3157 of Pub. L. 101-189 and as amended by Pub. L. 103-160, Sections 3134 and 3160). The Contractor shall conduct technology transfer activities with a purpose of providing benefit from Federal research to U.S. industrial competitiveness.

- (a) *Authority.*
 - (1) In order to ensure the full use of the results of research and development efforts of, and the capabilities of, the Laboratory, technology transfer, including Cooperative Research and Development Agreements (CRADAs), is established as a mission of the Laboratory consistent with the policy, principles and purposes of Sections 11(a)(1) and 12(g) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a); Section 3132(b) of Pub. L. 101-189, Sections 3134 and 3160 of Pub. L. 103-160, and of Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.); Section 152 of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2182); Section 9 of the Federal Nonnuclear Energy Research and Development Act of 1974 (42 U.S.C. 5908); and Executive Order 12591 of April 10, 1987.

- (2) In pursuing the technology transfer mission, the Contractor is authorized to conduct activities including but not limited to: identifying and protecting Intellectual Property made, created or acquired at or by the Laboratory; negotiating licensing agreements and assignments for Intellectual Property made, created or acquired at or by the Laboratory that the Contractor controls or owns; bailments; negotiating all aspects of and entering into CRADAs; providing technical consulting and personnel exchanges; conducting science education activities and reimbursable Strategic Partnership Projects (SPP); providing information exchanges; and making available laboratory user facilities. It is fully expected that the Contractor shall use all of the mechanisms available to it to accomplish this technology transfer mission, including, but not limited to, CRADAs, user facilities, SPP, science education activities, consulting, personnel exchanges, assignments, and licensing in accordance with this clause.
- (3) Trademarks and service marks. The Contractor, with notification to DOE Patent Counsel, is authorized to protect goods/services resulting from work at the Laboratory through Trademark and Service Mark protection. DOE reserves the right to require the Contractor to cancel registration or cease the use of any such mark upon written notice. The Laboratory name, including nicknames, and associated logos are owned by the Department of Energy and shall be protected by DOE Patent Counsel. In furtherance of the technology transfer mission, should the Contractor want to assert trademark or service mark protection for any word, phrase, symbol, design, or combination thereof that includes or is associated with the Laboratory name, the Contractor must first notify the DOE Patent Counsel. All marks resulting from work at the Laboratory that are not owned by DOE, whether registered with the United States Patent and Trademark Office or not, are subject to paragraph (i) (Transfer to Successor Contractor) of this clause, below, unless an exception is allowed by the DOE Patent Counsel.

(b) *Definitions.*

- (1) *Contractor's Laboratory Director* means the individual who has supervision over all or substantially all of the Contractor's operations at the Laboratory.
- (2) *Intellectual Property* means patents, trademarks, copyrights, mask works, protected CRADA information, and other forms of comparable property rights protected by Federal Law and other foreign counterparts.
- (3) *Cooperative Research and Development Agreement (CRADA)* means any agreement entered into between the Contractor as operator of the Laboratory, and one or more parties including at least one non-Federal party under which the Government, through its laboratory, provides personnel, services, facilities, equipment, intellectual property, or other

resources with or without reimbursement (but not funds to non-Federal parties) and the non-Federal parties provide funds, personnel, services, facilities, equipment, intellectual property, or other resources toward the conduct of specified research or development efforts which are consistent with the missions of the Laboratory; except that such term does not include a procurement contract, grant, or cooperative agreement as those terms are used in sections 6303, 6304, and 6305 of Title 31 of the United States Code.

- (4) *Joint Work Statement (JWS)* means a proposal for a CRADA prepared by the Contractor, signed by the Contractor's Laboratory Director or designee which describes the following:
 - (i) Purpose;
 - (ii) Scope of Work which delineates the rights and responsibilities of the Government, the Contractor and Third Parties, one of which must be a non-Federal party;
 - (iii) Schedule for the work; and
 - (iv) Cost and resource contributions of the parties associated with the work and the schedule.
- (5) *Assignment* means any agreement by which the Contractor transfers ownership of Laboratory Intellectual Property, subject to the Government's retained rights.
- (6) *Laboratory Biological Materials* means biological materials capable of replication or reproduction, such as plasmids, deoxyribonucleic acid molecules, ribonucleic acid molecules, living organisms of any sort and their progeny, including viruses, prokaryote and eukaryote cell lines, transgenic plants and animals, and any derivatives or modifications thereof or products produced through their use or associated biological products, made under this contract by Laboratory employees or through the use of Laboratory research facilities.
- (7) *Laboratory Tangible Research Product* means tangible material results of research which (i) are provided to permit replication, reproduction, evaluation or confirmation of the research effort, or to evaluate its potential commercial utility; (ii) are not materials generally commercially available; and (iii) were made under this contract by Laboratory employees or through the use of Laboratory research facilities.
- (8) *Bailment* means any agreement in which the Contractor permits the commercial or non-commercial transfer of custody, access or use of

Laboratory Biological Materials or Laboratory Tangible Research Product for a specified purpose of technology transfer or research and development, including without limitation evaluation, and without transferring ownership to the bailee.

- (9) *Department of Energy (DOE)*, as used in this clause, includes the National Nuclear Security Administration (NNSA), unless otherwise identified or indicated.
 - (10) *Patent Counsel* means the DOE or NNSA Patent counsel assisting the contracting activity. The Patent Counsel is the first and primary point of contact for activities described in this clause.
- (c) *Allowable Costs.*
- (1) The Contractor shall establish and carry out its technology transfer efforts through appropriate organizational elements consistent with the requirements for an Office of Research and Technology Applications (ORTA) pursuant to paragraphs (b) and (c) of Section 11 of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710). The costs associated with the conduct of technology transfer through the ORTA including activities associated with obtaining, maintaining, licensing, and assigning Intellectual Property rights, increasing the potential for the transfer of technology, widespread notice of technology transfer opportunities, and early stage and precommercial technology demonstration to remove barriers that limit private sector interest and demonstrate potential commercial applications of any research and technologies arising from Laboratory activities, shall be deemed allowable provided that such costs meet the other requirements of the allowable costs provisions of this Contract.
 - (2) The Contractor's participation in litigation to enforce or defend Intellectual Property claims incurred in its technology transfer efforts shall be as provided in the clause entitled "Insurance - Litigation and Claims" of this contract.
- (d) *Conflicts of Interest - Technology Transfer.* The Contractor shall have implementing procedures that seek to avoid employee and organizational conflicts of interest, or the appearance of conflicts of interest, in the conduct of its technology transfer activities. These procedures shall apply to other persons participating in Laboratory research or related technology transfer activities. Such implementing procedures shall be provided to the contracting officer for review and approval within sixty (60) days after execution of this contract. The contracting officer shall have thirty (30) days thereafter to approve or require specific changes to such procedures. Such implementing procedures shall include procedures to:

- (1) Require employees with a substantial role in negotiation, approval and performance of the CRADA in paragraph (n) to conform with standards of conduct and integrity in connection with the CRADA activity in accordance with the provisions of paragraph (n)(5) of this clause;
- (2) Review and approve employee activities so as to avoid conflicts of interest arising from commercial utilization activities relating to Contractor-developed Intellectual Property;
- (3) Conduct work performed using royalties so as to avoid interference with or adverse effects on ongoing DOE projects and programs;
- (4) Conduct activities relating to commercial utilization of Contractor-developed Intellectual Property so as to avoid interference with or adverse effects on user facility or SPP activities of the Contractor;
- (5) Conduct DOE-funded projects and programs so as to avoid the appearance of conflicts of interest or actual conflicts of interest with non-Government funded work;
- (6) Notify the contracting officer with respect to any new work to be performed or proposed to be performed under the Contract for DOE or other Federal agencies where the new work or proposal involves Intellectual Property in which the Contractor has obtained or intends to request or elect title;
- (7) Except as provided elsewhere in this Contract, obtain the approval of the contracting officer for any licensing of or assignment of title to Intellectual Property rights by the Contractor to any business or corporate affiliate of the Contractor;
- (8) Obtain the approval of the contracting officer prior to any assignment, exclusive licensing, or option for exclusive licensing, of Intellectual Property to any individual who has been a Laboratory employee within the previous two years or to the company in which the individual is a principal; and
- (9) Notify non-Federal sponsors of SPP activities, of any relevant Intellectual Property interest of the Contractor prior to execution of SPPs.
- (10) Notify the Contracting Officer and the funding party or program prior to evaluating a proposal by a third party or a DOE program, when the subject matter of the proposal involves an elected or waived subject invention under this contract or one in which the Contractor intends to elect to retain title under this contract.

- (e) *Fairness of Opportunity.* In conducting its technology transfer activities, the Contractor shall prepare procedures and take all reasonable measures to ensure widespread notice of availability of technologies suited for transfer and opportunities for exclusive licensing and joint research arrangements. The requirement to widely disseminate the availability of technology transfer opportunities does not apply to a specific application originated outside of the Laboratory and by entities other than the Contractor.
- (f) *U.S. Industrial Competitiveness* - for licensing and assignments of intellectual property.
 - (1) In the interest of enhancing U.S. Industrial Competitiveness, the Contractor shall, in its licensing and assignments of Intellectual Property, give preference in such a manner as to enhance the accrual of economic and technological benefits to the U.S. domestic economy. The Contractor shall consider the following factors in all of its licensing and assignment decisions involving Laboratory intellectual property where the Laboratory obtains rights during the course of the Contractor's operation of the Laboratory under this contract:
 - (i) whether any resulting design and development will be performed in the United States and whether resulting products, embodying parts, including components thereof, will be substantially manufactured in the United States; or
 - (ii)
 - (A) whether the proposed licensee or assignee has a business unit located in the United States and whether significant economic and technical benefits will flow to the United States as a result of the license or assignment agreement; and
 - (B) in licensing any entity subject to the control of a foreign company or government, whether such foreign government permits United States agencies, organizations or other persons to enter into cooperative research and development agreements and licensing agreements, and has policies to protect United States Intellectual Property rights; and
 - (C) If the proposed licensee, assignee, or parent of either type of entity is subject to the control of a foreign company or government, the Contractor, with the assistance of the Contracting Officer, in considering the factors set forth in paragraph (f)(1)(ii)(B) of this clause, may rely upon the following information—

- (1) U.S. Trade Representative inventory of Foreign Trade Barriers;
 - (2) U.S. Trade Representative Special 301 Report; and
 - (3) Such other relevant information available to the Contracting Officer; and
- (D) The Contractor shall review the U.S. Trade Representative Web site at: <http://www.ustr.gov> for the most current versions of these reports and other relevant information. The Contractor is encouraged to utilize other available resources, as necessary, to allow for a complete and informed decision.
- (2) If the Contractor determines that neither of the conditions in paragraphs (f)(1)(i) or (ii) of this clause are likely to be fulfilled, the Contractor, prior to entering into such an agreement, must obtain the approval of the contracting officer. The contracting officer shall act on any such requests for approval within thirty (30) days.
- (3) The Contractor agrees to be bound by the provisions of 35 U.S.C. 204 (Preference for United States industry).
- (g) *Indemnity - Product Liability.* In entering into written technology transfer agreements, including but not limited to, research and development agreements, licenses, assignments and CRADAs, the Contractor agrees to include in such agreements a requirement that the U.S. Government and the Contractor, except for any negligent acts or omissions of the Contractor, be indemnified for all damages, costs, and expenses, including attorneys' fees, arising from personal injury or property damage occurring as a result of the making, using or selling of a product, process or service by or on behalf of the Participant, its assignees or licensees which was derived from the work performed under the agreement. Except for CRADA and SPP where the guidance is already provided elsewhere, the Contractor shall identify and obtain the approval of the contracting officer for any proposed exceptions to this requirement such as where State or local law expressly prohibit the Participant from providing indemnification or where the research results will be placed in the public domain.
- (h) *Disposition of Income.*
 - (1) Royalties or other income earned or retained by the Contractor as a result of performance of authorized technology transfer activities herein shall be used by the Contractor for scientific research, development, technology transfer, and education at the Laboratory, consistent with the research and development mission and objectives of the Laboratory and subject to

Section 12(b)(5) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(b)(5)) and Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.) as amended through the effective date of this contract award or modification. If the net amounts of such royalties and income received from patent licensing after payment of patenting costs, licensing costs, payments to inventors and other expenses incidental to the administration of Subject Inventions during any fiscal year exceed 5 percent of the Laboratory's budget for that fiscal year, 15 percent of such excess amounts shall be paid to the Treasury of the United States, and the remaining amount of such excess shall be used by the Contractor for the purposes as described above in this paragraph. Any inventions arising out of such scientific research and development activities shall be deemed to be Subject Inventions under the Contract.

- (2) The Contractor shall include as a part of its annual Laboratory Institutional Plan or other such annual document a plan setting out those uses to which royalties and other income received as a result of performance of authorized technology transfer activities herein will be applied at the Laboratory, and at the end of the year, provide a separate accounting for how the funds were actually used. Under no circumstances shall these royalties and income be used for an illegal augmentation of funds furnished by the U.S. Government.
 - (3) The Contractor shall establish subject to the approval of the contracting officer a policy for making awards or sharing of royalties with Contractor employees, other coinventors and coauthors, including Federal employee coinventors when deemed appropriate by the contracting officer. The Contractor shall notify the Contracting Officer of any changes to that policy, and such changes, shall be subject to the approval of the Contracting Officer.
- (i) *Transfer to Successor Contractor.* In the event of termination or upon the expiration of this Contract, any unexpended balance of income received for use at the Laboratory shall be transferred, at the contracting officer's request, to a successor contractor, or in the absence of a successor contractor, to such other entity as designated by the contracting officer. The Contractor shall transfer title, as one or several packages if necessary, to the extent the Contractor retains title, in all patents and patent applications, licenses, accounts containing royalty revenues from such license agreements, including equity positions in third party entities, and other Intellectual Property rights which arose at the Laboratory, to the successor contractor or to the Government as directed by the contracting officer.

(j) *Technology Transfer Affecting the National Security.*

- (1) The Contractor shall notify and obtain the approval of the contracting officer, prior to entering into any technology transfer arrangement, when such technology or any part of such technology is classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act (42 U.S.C. 2168), as amended, or is subject to export control for nonproliferation and other nuclear-related national security purposes. Such notification shall include sufficient information to enable DOE to determine the extent that commercialization of such technology would enhance or diminish security interests of the United States, or diminish communications within DOE's nuclear weapon production complex. DOE shall use its best efforts to complete its determination within sixty (60) days of the Contractor's notification, and provision of any supporting information, and DOE shall promptly notify the Contractor as to whether the technology is transferable.
- (2) The Contractor shall include in all of its technology transfer agreements with third parties, including, but not limited to, CRADAs, licensing agreements and assignments, notice to such third parties that the export of goods and/or Technical Data from the United States may require some form of export control license or other authority from the U.S. Government and that failure to obtain such export control license may result in criminal liability under U.S. laws.
- (3) For other than fundamental research as defined in National Security Decision Directive 189, the Contractor is responsible to conduct internal export control reviews and assure that technology is transferred in accordance with applicable law.

- (k) *Records.* The Contractor shall maintain records of its technology transfer activities in a manner and to the extent satisfactory to the DOE and specifically including, but not limited to, the licensing agreements, assignments and the records required to implement the requirements of paragraphs (e), (f), and (h) of this clause and shall provide reports to the contracting officer to enable DOE to maintain the reporting requirements of Section 12(c)(6) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(6)). Such reports shall be made annually in a format to be agreed upon between the Contractor and DOE and in such a format which will serve to adequately inform DOE of the Contractor's technology transfer activities while protecting any data not subject to disclosure under the Rights in Technical Data clause and paragraph (n) of this clause. Such records shall be made available in accordance with the clauses of this Contract pertaining to inspection, audit and examination of records.

- (l) *Reports to Congress.* To facilitate DOE's reporting to Congress, the Contractor is required to submit annually to DOE a technology transfer plan for conducting its technology transfer function for the upcoming year, including plans for securing Intellectual Property rights in Laboratory innovations with commercial promise and plans for managing such innovations so as to benefit the competitiveness of United States industry. This plan may be included in the Annual Laboratory Plan and provided to the contracting officer on or before October 1st of each year.
- (m) *Oversight and Appraisal.* The Contractor is responsible for developing and implementing effective internal controls for all technology transfer activities consistent with the audit and record requirements of this Contract. Laboratory Contractor performance in implementing the technology transfer mission and the effectiveness of the Contractor's procedures will be evaluated by the contracting officer as part of the annual appraisal process, with input from the cognizant Secretarial Officer or program office.
- (n) *Technology Transfer Through Cooperative Research and Development Agreements.* Upon approval of the contracting officer and as provided in a DOE approved Joint Work Statement (JWS), the Laboratory Director, or designee, may enter into CRADAs on behalf of the DOE subject to the requirements set forth in this paragraph.
 - (1) *Review and Approval of CRADAs.*
 - (i) Except as otherwise directed in writing by the contracting officer, each JWS shall be submitted to the contracting officer for approval. The Contractor's Laboratory Director or designee shall provide a program mission impact statement and shall include an impact statement regarding related Intellectual Property rights known by the Contractor to be owned by the Government to assist the contracting officer in the approval determination.
 - (ii) The Contractor shall also include (specific to the proposed CRADA), a statement of compliance with the Fairness of Opportunity requirements of paragraph (e) of this clause.
 - (iii) Within thirty (30) days after submission of a JWS or proposed CRADA, the contracting officer shall approve, disapprove or request modification to the JWS or CRADA. The contracting officer shall provide a written explanation to the Contractor's Laboratory Director or designee of any disapproval or requirement for modification of a JWS or proposed CRADA.
 - (iv) Except as otherwise directed in writing by the contracting officer, the Contractor shall not enter into, or begin work under, a CRADA until approval of the CRADA has been granted by the contracting

officer. The Contractor may submit its proposed CRADA to the contracting officer at the time of submitting its proposed JWS or any time thereafter.

(2) *Selection of Participants.* The Contractor's Laboratory Director or designee in deciding what CRADA to enter into shall:

- (i) Give special consideration to small business firms, and consortia involving small business firms;
- (ii) Give preference to business units located in the United States which agree that products or processes embodying Intellectual Property will be substantially manufactured or practiced in the United States and, in the case of any industrial organization or other person subject to the control of a foreign company or government, take into consideration whether or not such foreign government permits United States agencies, organizations, or other persons to enter into cooperative research and development agreements and licensing agreements. The Contractor, in considering these factors, may rely upon the following information
 - (A) U.S. Trade Representative inventory of Foreign Trade Barriers;
 - (B) U.S. Trade Representative Special 301 Report; and
 - (C) Such other relevant information available to the Contracting Officer. The Contractor shall review the U.S. Trade Representative Web site at: <http://www.ustr.gov> for the most current versions of these reports and other relevant information. The Contractor is encouraged to utilize other available resources, as necessary, to allow for a complete and informed decision.
- (iii) Provide Fairness of Opportunity in accordance with the requirements of paragraph (e) of this clause; and
- (iv) Give consideration to the Conflicts of Interest requirements of paragraph (d) of this clause.

(3) *Withholding of Data.*

- (i) Data that is first produced as a result of research and development activities conducted under a CRADA and that would be a trade secret or commercial or financial data that would be privileged or confidential, if such data had been obtained from a non-Federal

third party, may be protected from disclosure under the Freedom of Information Act as provided in the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(7)) for a period as agreed in the CRADA of up to five (5) years from the time the data is first produced. The DOE shall cooperate with the Contractor in protecting such data.

- (ii) Unless otherwise expressly approved by the contracting officer in advance for a specific CRADA, the Contractor agrees, at the request of the contracting officer, to transmit such data to other DOE facilities for use by DOE or its Contractors by or on behalf of the Government. When data protected pursuant to paragraph (n)(3)(i) of this clause is so transferred, the Contractor shall clearly mark the data with a legend setting out the restrictions against private use and further dissemination, along with the expiration date of such restrictions. A final report, upon completion of a CRADA, shall be provided to DOE's Office of Scientific and Technical Information; reports marked as Protected CRADA Information will not be released to the public for a period up to five years, in accordance with the terms of the CRADA.
 - (iii) In addition to its authority to license Intellectual Property, the Contractor may enter into licensing agreements with third parties for data developed by the Contractor under a CRADA subject to other provisions of this Contract. However, the Contractor shall neither use the protection against dissemination nor the licensing of data as an alternative to the submittal of invention disclosures which include data protected pursuant to paragraph (n)(3)(i) of this clause.
- (4) *Strategic Partnership Projects and User Facility Programs.* (i) SPP and User Facility Agreements (UFAs) are not CRADAs and will be available for use by the Contractor in addition to CRADAs for achieving utilization of employee expertise and unique facilities for maximizing technology transfer. The Contractor agrees to inform prospective CRADA participants, which are intending to substantially pay full cost recovery for the effort under a proposed CRADA, of the availability of alternative forms of agreements, i.e., SPP and UFA, and of the Class Patent Waiver provisions associated therewith. (ii) Where the Contractor believes that the transfer of technology to the U.S. domestic economy will benefit from, or other equity considerations dictate, an arrangement other than the Class Waiver of patent rights to the sponsor in SPP and UFAs, a request may be made to the contracting officer for an exception to the Class Waivers. (iii) Rights to inventions made under agreements other than funding agreements with third parties shall be governed by the appropriate provisions incorporated, with DOE approval, in such agreements, and the

provisions in such agreements take precedence over any disposition of rights contained in this Contract. Disposition of rights under any such agreement shall be in accordance with any DOE class waiver (including SPP and User Class Waivers) or individually negotiated waiver which applies to the agreement.

(5) *Conflicts of interest.*

- (i) Except as provided in paragraph (n)(5)(iii) of this clause, the Contractor shall assure that no employee of the Contractor shall have a substantial role (including an advisory role) in the negotiation, approval or performance of a CRADA, if, to such employee's knowledge:
 - (A) Such employee, or the spouse, child, parent, sibling, or partner of such employee, or an organization (other than the Contractor) in which such employee serves as an officer, director, trustee, partner, or employee -
 - (1) Holds financial interest in any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA;
 - (2) Receives a gift or gratuity from any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA;
or
 - (B) A financial interest in any entity, other than the Contractor, that has a substantial interest in the negotiation, approval or performance of the CRADA, is held by any person or organization with whom such employee is negotiating or has any arrangement concerning prospective employment.
- (ii) The Contractor shall require that each employee of the Contractor who has a substantial role (including an advisory role) in the negotiation, approval or performance of a CRADA certify through the Contractor to the contracting officer that the circumstances described in paragraph (n)(5)(i) of this clause do not apply to that employee.
- (iii) The requirements of paragraphs (n)(5)(i) and (n)(5)(ii) of this clause shall not apply in a case where the contracting officer is advised by the Contractor in advance of the participation of an employee described in those paragraphs in the negotiation, approval or performance of a CRADA of the nature of and extent of any

financial interest described in paragraph (n)(5)(i) of this clause, and the contracting officer determines that such financial interest is not so substantial as to be considered likely to affect the integrity of the Contractor employee's participation in the process of negotiating, approving or performing the CRADA.

- (o) *Technology Transfer in Other Cost-Sharing Agreements.* In conducting research and development activities in cost-shared agreements not covered by paragraph (n) of this clause, the Contractor, with prior written permission of the contracting officer, may provide for the withholding of data produced thereunder in accordance with the applicable provisions of paragraph (n)(3) of this clause.
- (p) *Technology Partnership Ombudsman.*
 - (1) The Contractor agrees to establish a position to be known as "Technology Partnership Ombudsman," to help resolve complaints from outside organizations regarding the policies and actions of the contractor with respect to technology partnerships (including CRADAs), patents owned by the contractor for inventions made at the laboratory, and technology licensing.
 - (2) The Ombudsman shall be a senior official of the Contractor's laboratory staff, who is not involved in day-to-day technology partnerships, patents or technology licensing, or, if appointed from outside the laboratory or facility, shall function as such senior official.
 - (3) The duties of the Technology Partnership Ombudsman shall include: (i) Serving as the focal point for assisting the public and industry in resolving complaints and disputes with the laboratory or facility regarding technology partnerships, patents, and technology licensing; (ii) Promoting the use of collaborative alternative dispute resolution techniques such as mediation to facilitate the speedy and low cost resolution of complaints and disputes, when appropriate; and (iii) Submitting a quarterly report, in a format provided by DOE, to the Secretary of Energy, the Administrator for Nuclear Security, the Director of the DOE Office of Dispute Resolution, and the Contracting Officer concerning the number and nature of complaints and disputes raised, along with the Ombudsman's assessment of their resolution, consistent with the protection of confidential and sensitive information.

I.139 - DEAR 970.5227-4 AUTHORIZATION AND CONSENT (AUG 2002) DEVIATION (PREV. I.93)

- (a) The Government authorizes and consents to all use and manufacture of any invention described in and covered by a United States patent in the performance of this contract or any subcontract at any tier.
- (b) If the Contractor is sued for copyright infringement or anticipates the filing of such a lawsuit, the Contractor may request authorization and consent to copy a copyrighted work from the contracting officer. Programmatic necessity is a major consideration for DOE in determining whether to grant such request.
- (c)
 - (1) The Contractor agrees to include, and require inclusion of, the Authorization and Consent clause at 52.227-1, without Alternate 1, but suitably modified to identify the parties, in all subcontracts expected to exceed simplified acquisition threshold at any tier for supplies or services, including construction, architect-engineer services, and materials, supplies, models, samples, and design or testing services.
 - (2) The Contractor agrees to include, and require inclusion of, paragraph (a) of this Authorization and Consent clause, suitably modified to identify the parties, in all subcontracts at any tier for research and development activities expected to exceed simplified acquisition threshold.
 - (3) Omission of an authorization and consent clause from any subcontract, including those valued less than simplified acquisition threshold does not affect this authorization and consent.

I.140 - DEAR 970.5227-5 NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT (DEC 2000) [SC ALTERNATE APR 2018] (PREV. I.94)

- (a) The Contractor shall report to the Contracting Officer promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this contract of which the Contractor has knowledge.
- (b) If any person files a claim or suit against the Government on account of any alleged patent or copyright infringement arising out of the performance of this contract or out of the use of any supplies furnished or work or services performed hereunder, the Contractor shall furnish to the Government, when requested by the Contracting Officer, all evidence and information in possession of the Contractor pertaining to such suit or claim. Except where the Contractor has agreed to indemnify the Government, the Contractor shall furnish such evidence and information at the expense of the Government.

- (c) The Contractor agrees to include, and require inclusion of, this clause suitably modified to identify the parties, in all subcontracts at any tier expected to exceed the simplified acquisition threshold.

I.141 - DEAR 970.5227-6 PATENT INDEMNITY – SUBCONTRACTS (DEC 2000)
(PREV. I.95)

Except as otherwise authorized by the Contracting Officer, the Contractor shall obtain indemnification of the Government and its officers, agents, and employees against liability, including costs, for infringement of any United States patent (except a patent issued upon an application that is now or may hereafter be withheld from issue pursuant to a secrecy order by the Government) from Contractor's subcontractors for any contract work subcontracted in accordance with FAR 48 CFR 52.227-3.

I.142 - DEAR 970.5227-8 REFUND OF ROYALTIES (AUG 2002) (PREV. I.96)

- (a) During performance of this Contract, if any royalties are proposed to be charged to the Government as costs under this Contract, the Contractor agrees to submit for approval of the Contracting Officer, prior to the execution of any license, the following information relating to each separate item of royalty:
 - (1) Name and address of licensor;
 - (2) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable;
 - (3) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable;
 - (4) Percentage or dollar rate of royalty per unit;
 - (5) Unit price of contract item;
 - (6) Number of units;
 - (7) Total dollar amount of royalties; and
 - (8) A copy of the proposed license agreement.
- (b) If specifically requested by the Contracting Officer, the Contractor shall furnish a copy of any license agreement entered into prior to the effective date of this clause and an identification of applicable claims of specific patents or other basis upon which royalties are payable.

- (c) The term “royalties” as used in this clause refers to any costs or charges in the nature of royalties, license fees, patent or license amortization costs, or the like, for the use of or for rights in patents and patent applications that are used in the performance of this contract or any subcontract hereunder.
- (d) The Contractor shall furnish to the Contracting Officer, annually upon request, a statement of royalties paid or required to be paid in connection with performing this Contract and subcontracts hereunder.
- (e) For royalty payments under licenses entered into after the effective date of this Contract, costs incurred for royalties proposed under this paragraph shall be allowable only to the extent that such royalties are approved by the Contracting Officer. If the Contracting Officer determines that existing or proposed royalty payments are inappropriate, any payments subsequent to such determination shall be allowable only to the extent approved by the Contracting Officer.
- (f) Regardless of prior DOE approval of any individual payments or royalties, DOE may contest at any time the enforceability, validity, scope of, or title to a patent for which Contractor makes a royalty or other payment.
- (g) If at any time within 3 years after final payment under this contract, the Contractor for any reason is relieved in whole or in part from the payment of any royalties to which this clause applies, the Contractor shall promptly notify the Contracting Officer of that fact and shall promptly reimburse the Government for any refunds received or royalties paid after having received notice of such relief.
- (h) The Contractor agrees to include, and require inclusion of, this clause, including this paragraph (h), suitably modified to identify the parties in any subcontract at any tier in which the amount of royalties reported during negotiation of the subcontract exceeds \$250.

I.143 - DEAR 970.5227-10 PATENT RIGHTS – MANAGEMENT AND OPERATING CONTRACTS, NONPROFIT ORGANIZATION OR SMALL BUSINESS FIRM CONTRACTOR (AUG 2002) [SC ALTERNATE APR 2018] (PREV. I.97)

- (a) *Definitions.*
 - (1) *DOE licensing regulations* means the Department of Energy patent licensing regulations at 10 CFR Part 781.
 - (2) *Exceptional circumstance* subject invention means any subject invention in a technical field or related to a task determined by the Department of Energy to be subject to an exceptional circumstance under 35 U.S.C. 202(a)(ii) and in accordance with 37 CFR Part 401.3(e).

- (3) *Invention* means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321 et seq.).
 - (4) *Made* when used in relation to any invention means the conception or first actual reduction to practice of such invention.
 - (5) *Nonprofit organization* means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.
 - (6) *Patent Counsel* means the Department of Energy (DOE) Patent Counsel assisting the DOE contracting activity.
 - (7) *Practical application* means to manufacture, in the case of a composition or product; to practice, in the case of a process or method; or to operate, in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.
 - (8) *Small business firm* means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, are used.
 - (9) *Subject Invention* means any invention of the contractor conceived or first actually reduced to practice in the performance of work under this contract, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, (7 U.S.C. 2401(d)) shall also occur during the period of contract performance.
- (b) *Allocation of Principal Rights.*
- (1) *Retention of title by the Contractor.* Except for exceptional circumstance subject inventions, the contractor may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor retains title, the Federal government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to

practice or have practiced for or on behalf of the United States the subject invention throughout the world.

- (2) *Treaties and international agreements.* Any rights acquired by the Contractor in subject inventions are subject to any disposition of right, title, or interest in or to subject inventions provided for in treaties or international agreements identified at DOE's Office of International Affairs (International Commitments--IEC) (<http://energy.gov/ia/iec-documents>), or other rights which are necessary for the Government to meet its obligations to foreign governments, their nationals and international organizations under such treaties or international agreements with respect to subject inventions.
- (3) *Exceptional circumstance subject inventions.* Except to the extent that rights are retained by the Contractor in a determination of exceptional circumstances or granted to a contractor through a determination of greater rights in accordance with subparagraph (b)(4) of this clause, the Contractor does not have a right to retain title to any exceptional circumstance subject inventions and agrees to assign to the Government the entire right, title, and interest, throughout the world, in and to any exceptional circumstance subject inventions.
 - (i) Inventions within or relating to the following fields of technology are exceptional circumstance subject inventions:
 - (A) Uranium enrichment technology;
 - (B) Storage and disposal of civilian high-level nuclear waste and spent fuel technology; and
 - (C) National security technologies classified by statute or executive order or controlled under Section 148 of the Atomic Energy Act (42 U.S.C. 2168).
 - (ii) Inventions made under any agreement, contract or subcontract related to the following are exceptional circumstance subject inventions:
 - (A) DOE Steel Initiative and Metals Initiative;
 - (B) U.S. Advanced Battery Consortium; and
 - (C) Any funding agreement which is funded in part by the Electric Power Research Institute (EPRI) or the Gas Research Institute (GRI); and,

- (D) Solid State Energy Conversion Alliance (SECA) if Contractor is a participant in the "Core Technology Program."
- (iii) DOE reserves the right to unilaterally amend this contract to modify, by deletion or insertion, technical fields, tasks, or other classifications for the purpose of determining DOE exceptional circumstance subject inventions.
- (4) *Contractor request for greater rights in exceptional circumstance subject inventions.* The Contractor may request rights greater than allowed by the exceptional circumstance determination in an exceptional circumstance subject invention by submitting such a request in writing to Patent Counsel at the time the exceptional circumstance subject invention is disclosed to DOE or within eight (8) months after conception or first actual reduction to practice of the exceptional circumstance subject invention, whichever occurs first, unless a longer period is authorized in writing by the Patent Counsel for good cause shown in writing by the Contractor. DOE may, in its discretion, grant or refuse to grant such a request by the Contractor.
- (5) *Contractor employee-inventor rights.* If the Contractor does not elect to retain title to a subject invention or does not request greater rights in an exceptional circumstance subject invention, a Contractor employee-inventor, after consultation with the Contractor and with written authorization from the Contractor in accordance with 10 CFR 784.9(b)(4), may request greater rights, including title, in the subject invention or the exceptional circumstance invention from DOE, and DOE may, in its discretion, grant or refuse to grant such a request by the Contractor employee-inventor.
- (6) *Government assignment of rights in Government employees' subject inventions.* If a Government employee is a joint inventor of a subject invention or of an exceptional circumstance subject invention to which the Contractor has rights, the Government may assign or refuse to assign to the Contractor any rights in the subject invention or exceptional circumstance subject invention acquired by the Government from the Government employee, in accordance with 48 CFR 27.304-1(d). The rights assigned to the Contractor are subject to any provision of this clause that is applicable to subject inventions in which the Contractor retains title, including reservation by the Government of a nonexclusive, nontransferable, irrevocable, paid-up license, except that the Contractor shall file its initial patent application claiming the subject invention or exceptional circumstance invention within one (1) year after the assignment of such rights. The Contractor shall share royalties collected for the manufacture, use or sale of the subject invention with the Government employee.

(c) *Subject invention disclosure, election of title and filing of patent application by contractor.*

- (1) *Subject invention disclosure.* The contractor will disclose each subject invention to the Patent Counsel within two months after the inventor discloses it in writing to contractor personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s) and all sources of funding by B&R code for the invention. It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted or made available for publication at the time of disclosure. The disclosure shall identify if the invention falls within an exceptional circumstance field. DOE will make a determination and advise the Contractor within 30 days of receipt of an invention disclosure as to whether the invention is an exceptional circumstance subject invention. In addition, after disclosure to the Patent Counsel, the Contractor will notify the agency of any accepted manuscript describing the invention for publication or on sale or public use planned by the contractor that is 60 days prior to the end of the statutory period. The Contractor shall notify Patent Counsel prior to any release or publication of information concerning any nonelectable subject invention such as an exceptional circumstance subject invention or any subject invention related to a treaty or international agreement.
- (2) *Election by the Contractor.* Except as provided in paragraph (b)(2) of this clause, the Contractor will elect in writing whether or not to retain title to any such invention by notifying the Federal agency within two years of disclosure to the Federal agency. However, in any case where publication, on sale or public use has initiated the one year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the agency to a date that is no more than 60 days prior to the end of the statutory period.
- (3) *Filing of patent applications by the Contractor.* The Contractor will file its initial patent application on a subject invention to which it elects to retain title within one year after election of title or, if earlier, or prior to the end of any 1-year statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor will file patent applications in additional countries or international patent offices within either ten months of the corresponding initial patent application or six months from the date permission is granted

by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.

- (4) *Contractor's reporting under this subparagraph.* Reporting of Subject Invention disclosures, election of title, filing of patent applications and associated activities under subparagraphs (c)(1), (2) and (3) is reported to the agency and Patent Counsel using the NIH's iEdison portal unless the Contractor receives a waiver from Patent Counsel.
 - (5) *Contractor's request for an extension of time.* Requests for an extension of the time for disclosure, election, and filing under subparagraphs (c)(1), (2) and (3) may, at the discretion of Patent Counsel, be granted.
 - (6) *Publication review.* During the course of the work under this contract, the Contractor may desire to release or publish information regarding scientific or technical developments conceived or first actually reduced to practice in the course of or under this contract. Contractor's Invention Identification Procedures under paragraph (f)(5) should address timely disclosure of inventions, consider whether review is required, and if so, facilitate such review by Contractor personnel responsible for patent matters prior to disclosure of publications in order that public disclosure of such information will not adversely affect the patent interest of DOE or the Contractor.
- (d) *Conditions when the Government may obtain title.* The Contractor will convey to the DOE, upon written request, title to any subject invention.
- (1) If the Contractor fails to disclose or elect title to the subject invention within the times specified in paragraph (c) of this clause, or elects not to retain title; provided, that DOE may only request title within sixty (60) days after learning of the failure of the Contractor to disclose or to elect within the specified times.
 - (2) In those countries in which the Contractor fails to file a patent application within the times specified in subparagraph (c) of this clause; provided, however, that if the Contractor has filed a patent application in a country after the times specified in subparagraph (c) above, but prior to its receipt of the written request of the DOE, the Contractor shall continue to retain title in that country.
 - (3) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in a reexamination or opposition proceeding on, a patent on a subject invention.
 - (4) If the Contractor requests that DOE acquire title or rights from the Contractor in a subject invention to which the Contractor had initially

retained title or rights, or in an exceptional circumstance subject invention to which the Contractor was granted greater rights, DOE may acquire such title or rights from the Contractor, or DOE may decide against acquiring such title or rights from the Contractor, at DOE's sole discretion.

- (e) *Minimum rights of the Contractor and protection of the Contractor's right to file.*
- (1) *Request for a Contractor license.* The Contractor may request the right to reserve a revocable, nonexclusive, royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the Contractor fails to disclose the invention within the times specified in paragraph (c) of this clause. DOE may grant or refuse to grant such a request by the Contractor. When DOE approves such reservation, the Contractor's license will normally extend to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a party and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of DOE, except when transferred to the successor of that part of the contractor's business to which the invention pertains.
 - (2) *Revocation or modification of a Contractor license.* The Contractor's domestic license may be revoked or modified by DOE to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404 and DOE licensing regulations at 10 CFR Part 781. This license will not be revoked in the field of use or the geographical areas in which the Contractor has achieved practical application and continues to make the benefits of the subject invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of DOE to the extent the Contractor, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application of the subject invention in that foreign country.
 - (3) *Notice of revocation or modification of a Contractor license.* Before revocation or modification of the license, DOE will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed thirty days (or such other time as may be authorized by DOE for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable regulations in 37 CFR part 404 and DOE licensing regulations at 10 CFR part 781 concerning the licensing of Government owned inventions, any decision concerning the revocation or modification of the license.

(f) Contractor *action to protect the Government's interest.*

- (1) *Execution of delivery of title or license instruments.* The Contractor agrees to execute or to have executed, and promptly deliver to the Patent Counsel all instruments necessary to accomplish the following actions:
 - (i) Establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and
 - (ii) Convey title to DOE when requested under subparagraphs (b) or paragraph (d) of this clause and to enable the Government to obtain patent protection throughout the world in that subject invention.
- (2) *Contractor employee agreements.* The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to Contractor personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor, each subject invention made under this contract in order that the Contractor can comply with the disclosure provisions of paragraph (c) of this clause, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) of this clause. The Contractor shall instruct such employees, through employee agreements or other suitable educational programs, on the importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.
- (3) *Notification of discontinuation of patent protection.* The contractor will notify the Patent Counsel of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of the response period required by the relevant patent office.
- (4) *Notification of Government rights.* The contractor agrees to include, within the specification of any United States patent applications and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with government support under (identify the contract) awarded by (identify the Federal agency). The government has certain rights in the invention."
- (5) *Invention identification procedures.* The Contractor shall establish and maintain active and effective procedures to ensure that subject inventions are promptly identified and timely disclosed and shall submit a written

description of such procedures to the Contracting Officer so that the Contracting Officer may evaluate and determine their effectiveness.

- (6) *Invention filing documentation.* If the Contractor files a domestic or foreign patent application claiming a subject invention, the Contractor shall promptly submit to Patent Counsel, upon request, the following information and documents:
 - (i) The filing date, serial number, title, and a copy of the patent application (including an English-language version if filed in a language other than English);
 - (ii) An executed and approved instrument fully confirmatory of all Government rights in the subject invention; and
 - (iii) The patent number, issue date, and a copy of any issued patent claiming the subject invention.
- (7) *Duplication and disclosure of documents.* The Government may duplicate and disclose subject invention disclosures and all other reports and papers furnished or required to be furnished pursuant to this clause; provided, however, that any such duplication or disclosure by the Government is subject to the confidentiality provision at 35 U.S.C. 205 and 37 CFR Part 40.
- (g) *Subcontracts.*
 - (1) *Subcontractor subject inventions.* The Contractor shall not obtain rights in the subcontractor's subject inventions as part of the consideration for awarding a subcontract.
 - (2) *Inclusion of patent rights clause - non-profit organization or small business firm subcontractors.* Unless otherwise authorized or directed by the Contracting Officer, the Contractor shall include the patent rights clause at 48 CFR 952.227-11, suitably modified to identify the parties, in all subcontracts, at any tier, for experimental, developmental, demonstration or research work to be performed by a small business firm or domestic nonprofit organization, except subcontracts which are subject to exceptional circumstances in accordance with 35 U.S.C. 202 and subparagraph (b)(2) of this clause. The subcontractor retains all rights provided for the contractor in the patent rights clause at 48 CFR 952.227-11.
 - (3) *Inclusion of patent rights clause - subcontractors other than non-profit organizations and small business firms.* Except for the subcontracts described in subparagraph (g)(2) of this clause, the Contractor shall include the patent rights clause at 48 CFR 952.227-13, suitably modified

to identify the parties, in any contract for experimental, developmental, demonstration or research work. For subcontracts subject to exceptional circumstances, the contractor must consult with DOE patent counsel with respect to the appropriate patent clause.

- (4) *DOE and subcontractor contract.* With respect to subcontracts at any tier, DOE, the subcontractor, and the Contractor agree that the mutual obligations of the parties created by this clause constitute a contract between the subcontractor and DOE with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause.
- (5) *Subcontractor refusal to accept terms of patent clause.* If a prospective subcontractor refuses to accept the terms of a patent rights clause, the Contractor shall promptly submit a written notice to the Contracting Officer stating the subcontractor's reasons for such a refusal, including any relevant information for expediting disposition of the matter, and the Contractor shall not proceed with the subcontract without the written authorization of the Contracting Officer.
- (6) *Notification of award of subcontract.* Upon the award of any subcontract at any tier containing a patent rights clause, the Contractor shall promptly notify the Contracting Officer in writing and identify the subcontractor, the applicable patent rights clause, the work to be performed under the subcontract, and the dates of award and estimated completion. Upon request of the Contracting Officer, the Contractor shall furnish a copy of a subcontract.
- (7) *Identification of subcontractor subject inventions.* If the Contractor in the performance of this contract becomes aware of a subject invention made under a subcontract, the Contractor shall promptly notify Patent Counsel and identify the subject invention.
- (h) *Reporting on utilization of subject inventions.*

The Contractor agrees to submit to DOE the annual data call for the Department of Commerce report that includes the number of patent applications filed, the number of patents issued, gross royalties received by the Contractor, licensing activity and such other data and information as DOE may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by DOE in connection with any march-in proceeding undertaken by DOE in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), DOE agrees it will not disclose such information to persons outside the Government without permission of the Contractor.

(i) *Preference for United States Industry.*

Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any product embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by DOE upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.

(j) *March-in Rights.*

The Contractor agrees that, with respect to any subject invention in which it has acquired title, DOE has the right in accordance with the procedures in 37 CFR 401.6 and any DOE supplemental regulations to require the Contractor, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and, if the Contractor, assignee or exclusive licensee refuses such a request, DOE has the right to grant such a license itself if DOE determines that --

- (1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;
- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees;
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the Contractor, assignee, or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived, or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.

(k) *Special provisions for contracts with nonprofit organizations.*

If the Contractor is a nonprofit organization, it agrees that -

- (1) *DOE approval of assignment of rights.* Rights to a subject invention in the United States may not be assigned by the Contractor without the approval

of DOE, except where such assignment is made to an organization which has as one of its primary functions the management of inventions; provided, that such assignee will be subject to the same provisions of this clause as the Contractor.

- (2) *Small business firm licensees.* It will make efforts that are reasonable under the circumstances to attract licensees of subject inventions that are small business firms, and that it will give a preference to a small business firm when licensing a subject invention if the Contractor determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the Contractor is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the Contractor. However, the Contractor agrees that the Secretary of Commerce may review the Contractor's licensing program and decisions regarding small business firm applicants, and the Contractor will negotiate changes to its licensing policies, procedures, or practices with the Secretary of Commerce when that Secretary's review discloses that the Contractor could take reasonable steps to more effectively implement the requirements of this subparagraph (k)(2).
- (3) *Contractor licensing of subject inventions.* To the extent that it provides the most effective technology transfer, licensing of subject inventions shall be administered by Contractor employees on location at the facility.

(l) *Communications.*

The Contractor shall direct any notification, disclosure or request provided for in this clause to the iEdison invention portal or as otherwise directed by the Patent Counsel.

(m) *Reports.*

- (1) *Interim reports.* Upon DOE's request, the Contractor shall submit to DOE, no more frequently than annually, a list of subject inventions disclosed to DOE during a specified period, or a statement that no subject inventions were made during the specified period; and a list of subcontracts containing a patent clause and awarded by the Contractor during a specified period, or a statement that no such subcontracts were awarded during the specified period.
- (2) *Final reports.* Upon DOE's request, the Contractor shall submit to DOE, prior to closeout of the contract, a list of all subject inventions disclosed during the performance period of the contract, or a statement that no subject inventions were made during the contract performance period; and

a list of all subcontracts containing a patent clause and awarded by the Contractor during the contract performance period under which a subject invention was reported, or a statement that no such subject inventions under subcontracts were reported during the contract performance period.

(n) *Examination of Records Relating to Subject Inventions.*

- (1) *Contractor compliance.* Until the expiration of three (3) years after final payment under this contract, the Contracting Officer or any authorized representative may examine any books (including laboratory notebooks), records, documents, and other supporting data of the Contractor, which the Contracting Officer or authorized representative deems reasonably pertinent to the discovery or identification of subject inventions, including exceptional circumstance subject inventions, or to determine Contractor compliance with any requirement of this clause.
- (2) *Unreported inventions.* If the Contracting Officer is aware of an invention that is not disclosed by the Contractor to DOE, and the Contracting Officer believes the unreported invention may be a subject invention, including exceptional circumstance subject inventions, DOE may require the Contractor to submit to DOE a disclosure of the invention for a determination of ownership rights.
- (3) *Confidentiality.* Any examination of records under this paragraph is subject to appropriate conditions to protect the confidentiality of the information involved.
- (4) *Power of inspection.* With respect to a subject invention for which the Contractor has responsibility for patent prosecution, the Contractor shall furnish the Government, upon request by DOE, an irrevocable power to inspect and make copies of a prosecution file for any patent application claiming the subject invention.

(o) *Facilities License.*

In addition to the rights of the parties with respect to inventions or discoveries conceived or first actually reduced to practice in the course of or under this contract, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up license in and to any inventions or discoveries regardless of when conceived or actually reduced to practice or acquired by the Contractor at any time through completion of this contract and which are incorporated or embodied in the construction of the facility or which are utilized in the operation of the facility or which cover articles, materials, or product manufactured at the facility (1) to practice or have practiced by or for the Government at the facility, and (2) to transfer such license with the transfer of that facility. Notwithstanding the acceptance or exercise by the Government of

these rights, the Government may contest at any time the enforceability, validity or scope of, or title to, any rights or patents herein licensed.

(p) *Atomic Energy.*

- (1) *Pecuniary awards.* No claim for pecuniary award of compensation under the provisions of the Atomic Energy Act of 1954, as amended, may be asserted with respect to any invention or discovery made or conceived in the course of or under this contract.
- (2) *Patent agreements.* Except as otherwise authorized in writing by the Contracting Officer, the Contractor shall obtain patent agreements to effectuate the provisions of subparagraph (p)(1) of this clause from all persons who perform any part of the work under this contract, except nontechnical personnel, such as clerical employees and manual laborers.

(q) *Patent Functions.*

Upon the written request of the Contracting Officer or Patent Counsel, the Contractor agrees to make reasonable efforts to support DOE in accomplishing patent-related functions for work arising out of the contract, including, but not limited to, the prosecution of patent applications, and the determination of questions of novelty, patentability, and inventorship.

(r) *Educational Awards Subject to 35 U.S.C. 212.*

The Contractor shall notify the Contracting Officer prior to the placement of any person subject to 35 U.S.C. 212 in an area of technology or task (1) related to exceptional circumstance technology or (2) which is subject to treaties or international agreements as set forth in paragraph (b)(3) of this clause or agreements other than funding agreements. The Contracting Officer may disapprove of any such placement.

(s) *Annual Appraisal by Patent Counsel.*

Patent Counsel may conduct an annual appraisal to evaluate the Contractor's effectiveness in identifying and protecting subject inventions in accordance with DOE policy.

I.144 - DEAR 970.5228-1 INSURANCE—LITIGATION AND CLAIMS (JUL 2013)
(PREV. I.98)

- (a) The contractor must comply with 10 CFR part 719, Contractor Legal Management Requirements, if applicable.

- (b)
 - (1) Except as provided in paragraph (b)(2) of this clause, the contractor shall procure and maintain such bonds and insurance as required by law or approved in writing by the Contracting Officer.
 - (2) The contractor may, with the approval of the Contracting Officer, maintain a self-insurance program in accordance with FAR 28.308; provided that, with respect to workers' compensation, the contractor is qualified pursuant to statutory authority.
 - (3) All bonds and insurance required by this clause shall be in a form and amount and for those periods as the Contracting Officer may require or approve and with sureties and insurers approved by the Contracting Officer.
- (c) The contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other bonds and insurance that are maintained by the contractor in connection with the performance of this contract and for which the contractor seeks reimbursement. If an insurance cost (whether a premium for commercial insurance or related to self-insurance) includes a portion covering costs made unallowable elsewhere in the contract, and the share of the cost for coverage for the unallowable cost is determinable, the portion of the cost that is otherwise an allowable cost under this contract is reimbursable to the extent determined by the Contracting Officer.
- (d) Except as provided in paragraph (f) of this clause, or specifically disallowed elsewhere in this contract, the contractor shall be reimbursed—
 - (1) For that portion of the reasonable cost of bonds and insurance allocable to this contract required in accordance with contract terms or approved under this clause, and
 - (2) For liabilities (and reasonable expenses incidental to such liabilities, including litigation costs) to third persons not compensated by insurance without regard to the clause of this contract entitled "Obligation of Funds."
- (e) The Government's liability under paragraph (d) of this clause is subject to the availability of appropriated funds. Nothing in this contract shall be construed as implying that the Congress will, at a later date, appropriate funds sufficient to meet deficiencies.
- (f)
 - (1) Notwithstanding any other provision of this contract, the contractor shall not be reimbursed for liabilities to third parties, including contractor employees, and directly associated costs which may include but are not limited to litigation costs, counsel fees, judgments and settlements—

- (i) Which are otherwise unallowable by law or the provisions of this contract, including the cost reimbursement limitations contained in 48 CFR part 31, as supplemented by 48 CFR 970.31;
 - (ii) For which the contractor has failed to insure or to maintain insurance as required by law, this contract, or by the written direction of the Contracting Officer; or
 - (iii) Which were caused by contractor managerial personnel's—
 - (A) Willful misconduct;
 - (B) Lack of good faith; or
 - (C) Failure to exercise prudent business judgment, which means failure to act in the same manner as a prudent person in the conduct of competitive business; or, in the case of a non-profit educational institution, failure to act in the manner that a prudent person would under the circumstances prevailing at the time the decision to incur the cost is made.
 - (2) The term “contractor's managerial personnel” is defined in the Property clause in this contract.
- (g) (1) All litigation costs, including counsel fees, judgments and settlements shall be segregated and accounted for by the contractor separately. If the Contracting Officer provisionally disallows such costs, then the contractor may not use funds advanced by DOE under the contract to finance the litigation.
- (2) Punitive damages are not allowable unless the act or failure to act which gave rise to the liability resulted from compliance with specific terms and conditions of the contract or written instructions from the Contracting Officer.
- (3) The portion of the cost of insurance obtained by the contractor that is allocable to coverage of liabilities referred to in paragraph (f) of this clause is not allowable.
- (h) The contractor may at its own expense and not as an allowable cost procure for its own protection insurance to compensate the contractor for any unallowable or non-reimbursable costs incurred in connection with contract performance.

I.145 - DEAR 970.5229-1 STATE AND LOCAL TAXES (DEC 2000) (PREV. I.99)

- (a) The Contractor agrees to notify the Contracting Officer of any State or local tax, fee, or charge levied or purported to be levied on or collected from the Contractor with respect to the contract work, any transaction thereunder, or property in the custody or control of the Contractor and constituting an allowable item of cost if due and payable, but which the Contractor has reason to believe, or the Contracting Officer has advised the Contractor, is or may be inapplicable or invalid; and the Contractor further agrees to refrain from paying any such tax, fee, or charge unless authorized in writing by the Contracting Officer. Any State or local tax, fee, or charge paid with the approval of the Contracting Officer or on the basis of advice from the Contracting Officer that such tax, fee, or charge is applicable and valid, and which would otherwise be an allowable item of cost, shall not be disallowed as an item of cost by reason of any subsequent ruling or determination that such tax, fee, or charge was in fact inapplicable or invalid.
- (b) The Contractor agrees to take such action as may be required or approved by the Contracting Officer to cause any State or local tax, fee, or charge which would be an allowable cost to be paid under protest; and to take such action as may be required or approved by the Contracting Officer to seek recovery of any payments made, including assignment to the Government or its designee of all rights to an abatement or refund thereof, and granting permission for the Government to join with the Contractor in any proceedings for the recovery thereof or to sue for recovery in the name of the Contractor. If the Contracting Officer directs the Contractor to institute litigation to enjoin the collection of or to recover payment of any such tax, fee, or charge referred to above, or if a claim or suit is filed against the Contractor for a tax, fee, or charge it has refrained from paying in accordance with this clause, the procedures and requirements of the clause entitled "Insurance-Litigation and Claims" shall apply and the costs and expenses incurred by the Contractor shall be allowable items of costs, as provided in this contract, together with the amount of any judgment rendered against the Contractor.
- (c) The Government shall hold the Contractor harmless from penalties and interest incurred through compliance with this clause. All recoveries or credits in respect of the foregoing taxes, fees, and charges (including interest) shall inure to and be for the sole benefit of the Government.

I.146 - DEAR 970.5231-4 PREEXISTING CONDITIONS (DEC 2000) (ALTERNATE I) (DEC 2000) (PREV. I.100)

- (a) Any liability, obligation, loss, damage, claim (including without limitation, a claim involving strict or absolute liability), action, suit, civil fine or penalty, cost, expense or disbursement, which may be incurred or imposed, or asserted by any party and arising out of any condition, act or failure to act which occurred before

February 1, 2005, in conjunction with the management and operation of Ernest Orlando Lawrence Berkeley National Laboratory, shall be deemed incurred under Contract No. DE-AC03-78SF00098.

- (b) The obligations of the Department of Energy under this clause are subject to the availability of appropriated funds.

I.147 - DEAR 970.5232-1 REDUCTION OR SUSPENSION OF ADVANCE, PARTIAL, OR PROGRESS PAYMENTS (DEC 2000) (PREV. I.101)

- (a) The Contracting Officer may reduce or suspend further advance, partial, or progress payments to the Contractor upon a written determination by the Senior Procurement Executive that substantial evidence exists that the Contractor's request for advance, partial, or progress payment is based on fraud.
- (b) The Contractor shall be afforded a reasonable opportunity to respond in writing.

I.148 - DEAR 970.5232-2 PAYMENTS AND ADVANCES (DEC 2000) (ALTERNATES II AND III) (DEC 2000) (PREV. I.102)

- (a) *Payment of Total available fee: Base Fee and Performance Fee.* The base fee amount, if any, is payable in equal monthly installments. Total available fee amount earned is payable following the Government's Determination of Total Available Fee Amount Earned in accordance with the clause of this contract entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." Base fee amount and total available fee amount earned payments shall be made by direct payment or withdrawn from funds advanced or available under this contract, as determined by the Contracting Officer. The Contracting Officer may offset against any such fee payment the amounts owed to the Government by the Contractor, including any amounts owed for disallowed costs under this contract. No base fee amount or total available fee amount earned payment may be withdrawn against the payments cleared financing arrangement without the prior written approval of the contracting officer.
- (b) *Payments on Account of Allowable Costs.* The Contracting Officer and the Contractor shall agree as to the extent to which payment for allowable costs or payments for other items specifically approved in writing by the Contracting Officer (for example, negotiated fixed amounts) shall be made from advances of Government funds. When pension contributions are paid by the Contractor to the retirement fund less frequently than quarterly, accrued costs therefore shall be excluded from costs for payment purposes until such costs are paid. If pension contribution are paid on a quarterly or more frequent basis, accrual therefore may be included in costs for payment purposes, provided that they are paid to the fund within 30 days after the close of the period covered. If payments are not

made to the fund within such 30-day period, pension contribution costs shall be excluded from cost for payment purposes until payment has been made.

- (c) *Special financial institution account--use.* All advances of Government funds shall be withdrawn pursuant to a payments cleared financing arrangement prescribed by DOE in favor of the financial institution or, at the option of the Government, shall be made by direct payment or other payment mechanism to the Contractor, and shall be deposited only in the special financial institution account referred to in the Special Financial Institution Account Agreement, which is incorporated into this contract as Appendix C. No part of the funds in the special financial institution account shall be commingled with any funds of the Contractor or used for a purpose other than that of making payments for costs allowable and, if applicable, fees earned under this contract, negotiated fixed amounts, or payments for other items specifically approved in writing by the Contracting Officer. If the Contracting Officer determines that the balance of such special financial institution account exceeds the Contractor's current needs, the Contractor shall promptly make such disposition of the excess as the Contracting Officer may direct.
- (d) *Title to funds advanced.* Title to the unexpended balance of any funds advanced and of any special financial institution account established pursuant to this clause shall remain in the Government and be superior to any claim or lien of the financial institution of deposit or others. It is understood that an advance to the Contractor hereunder is not a loan to the Contractor, and will not require the payment of interest by the Contractor, and that the Contractor acquires no right, title or interest in or to such advance other than the right to make expenditures therefrom, as provided in this clause.
- (e) *Financial settlement.* The Government shall promptly pay to the Contractor the unpaid balance of allowable costs (or other items specifically approved in writing by the Contracting Officer) and fee upon termination of the work, expiration of the term of the contract, or completion of the work and its acceptance by the Government after:
 - (1) Compliance by the Contractor with DOE's patent clearance requirements, and
 - (2) The furnishing by the Contractor of:
 - (i) An assignment of the Contractor's rights to any refunds, rebates, allowances, accounts receivable, collections accruing to the Contractor in connection with the work under this contract, or other credits applicable to allowable costs under the contract;
 - (ii) A closing financial statement;

- (iii) The accounting for Government-owned property required by the clause entitled "Property"; and
- (iv) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this contract subject only to the following exceptions:
 - (A) Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible to exact statement by the Contractor;
 - (B) Claims, together with reasonable expenses incidental thereto, based upon liabilities of the Contractor to third parties arising out of the performance of this contract; provided that such claims are not known to the Contractor on the date of the execution of the release; and provided further that the Contractor gives notice of such claims in writing to the Contracting Officer promptly, but not more than one (1) year after the Contractor's right of action first accrues. In addition, the Contractor shall provide prompt notice to the Contracting Officer of all potential claims under this clause, whether in litigation or not (see Contract Clause 48 CFR 970.5228-1, Insurance--Litigation and Claims);
 - (C) Claims for reimbursement of costs (other than expenses of the Contractor by reason of any indemnification of the Government against patent liability), including reasonable expenses incidental thereto, incurred by the Contractor under the provisions of this contract relating to patents; and
 - (D) Claims recognizable under the clause entitled, Nuclear Hazards Indemnity Agreement.
- (3) In arriving at the amount due the Contractor under this clause, there shall be deducted,
 - (i) Any claim which the Government may have against the Contractor in connection with this contract, and
 - (ii) Deductions due under the terms of this contract, and not otherwise recovered by or credited to the Government. The unliquidated balance of the special financial institution account may be applied to the amount due and any balance shall be returned to the Government forthwith.

- (f) *Claims.* Claims for credit against funds advanced for payment shall be accompanied by such supporting documents and justification as the Contracting Officer shall prescribe.
- (g) *Discounts.* The Contractor shall take and afford the Government the advantage of all known and available cash and trade discounts, rebates, allowances, credits, salvage, and commissions unless the Contracting Officer finds that action is not in the best interest of the Government.
- (h) *Collections.* All collections accruing to the Contractor in connection with the work under this contract, except for the Contractor's fee and royalties or other income accruing to the Contractor from technology transfer activities in accordance with this contract, shall be Government property and shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract and, to the extent consistent with those requirements, shall be deposited in the special financial institution account or otherwise made available for payment of allowable costs under this contract, unless otherwise directed by the Contracting Officer.
- (i) *Direct payment of charges.* The Government reserves the right, upon ten days written notice from the Contracting Officer to the Contractor, to pay directly to the persons concerned, all amounts due which otherwise would be allowable under this contract. Any payment so made shall discharge the Government of all liability to the Contractor therefore.
- (j) *Determining allowable costs.* The Contracting Officer shall determine allowable costs in accordance with the Federal Acquisition Regulation subpart 31.2 and the Department of Energy Acquisition Regulation subpart 48 CFR 970.31 in effect on the date of this contract and other provisions of this contract.
- (k) *Review and approval of costs incurred.* The Contractor shall prepare and submit annually as of September 30, a "Statement of Costs Incurred and Claimed" (Cost Statement) for the total of net expenditures accrued (i.e., net costs incurred) for the period covered by the Cost Statement. The Contractor shall certify the Cost Statement subject to the penalty provisions for unallowable costs as stated in sections 306(b) and (i) of the Federal Property and Administrative Services Act of 1949 (41 U.S.C. 256), as amended. DOE, after audit and appropriate adjustment, will approve such Cost Statement. This approval by DOE will constitute an acknowledgment by DOE that the net costs incurred are allowable under the contract and that they have been recorded in the accounts maintained by the Contractor in accordance with DOE accounting policies, but will not relieve the Contractor of responsibility for DOE's assets in its care, for appropriate subsequent adjustments, or for errors later becoming known to DOE.

I.149 - DEAR 970.5232-3 ACCOUNTS, RECORDS AND INSPECTION (DEC 2010)
(PREV. I.103)

- (a) *Accounts.* The Contractor shall maintain a separate and distinct set of accounts, records, documents, and other evidence showing and supporting: all allowable costs incurred; collections accruing to the Contractor in connection with the work under this contract, other applicable credits, negotiated fixed amounts, and fee accruals under this contract; and the receipt, use, and disposition of all Government property coming into the possession of the Contractor under this contract. The system of accounts employed by the Contractor shall be satisfactory to DOE and in accordance with generally accepted accounting principles consistently applied.
- (b) *Inspection and audit of accounts and records.* All books of account and records relating to this contract shall be subject to inspection and audit by DOE or its designees in accordance with the provisions of Clause 970.5204-3, Access to and ownership of records, at all reasonable times, before and during the period of retention provided for in paragraph (d) of this clause, and the Contractor shall afford DOE proper facilities for such inspection and audit.
- (c) *Audit of subcontractors' records.* The Contractor also agrees, with respect to any subcontracts (including fixed-price or unit-price subcontracts or purchase orders) where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor of any tier, to either conduct an audit of the subcontractor's costs or arrange for such an audit to be performed by the cognizant government audit agency through the Contracting Officer.
- (d) *Disposition of records.* Except as agreed upon by the Government and the Contractor, all financial and cost reports, books of account and supporting documents, system files, data bases, and other data evidencing costs allowable, collections accruing to the Contractor in connection with the work under this contract, other applicable credits, and fee accruals under this contract, shall be the property of the Government, and shall be delivered to the Government or otherwise disposed of by the Contractor either as the Contracting Officer may from time to time direct during the progress of the work or, in any event, as the Contracting Officer shall direct upon completion or termination of this contract and final audit of accounts hereunder. Except as otherwise provided in this contract, including provisions of Clause 970.5204-3, Access to and Ownership of Records, all other records in the possession of the Contractor relating to this contract shall be preserved by the Contractor for a period of three years after final payment under this contract or otherwise disposed of in such manner as may be agreed upon by the Government and the Contractor.

- (e) *Reports.* The Contractor shall furnish such progress reports and schedules, financial and cost reports, and other reports concerning the work under this contract as the Contracting Officer may from time to time require.
- (f) *Inspections.* The DOE shall have the right to inspect the work and activities of the Contractor under this contract at such time and in such manner as it shall deem appropriate.
- (g) *Subcontracts.* The Contractor further agrees to require the inclusion of provisions similar to those in paragraphs (a) through (g) and paragraph (h) of this clause in all subcontracts (including fixed-price or unit-price subcontracts or purchase orders) of any tier entered into hereunder where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor.
- (h) *Comptroller General.*
 - (1) The Comptroller General of the United States, or an authorized representative, shall have access to and the right to examine any of the contractor's or subcontractor's directly pertinent records involving transactions related to this contract or a subcontract hereunder and to interview any employee regarding such transactions.
 - (2) This paragraph may not be construed to require the Contractor or subcontractor to create or maintain any record that the Contractor or subcontractor does not maintain in the ordinary course of business or pursuant to a provision of law.
 - (3) Nothing in this contract shall be deemed to preclude an audit by the Government Accountability Office of any transaction under this contract.
- (i) *Internal audit.* The Contractor agrees to design and maintain an internal audit plan and an internal audit organization.
 - (1) Upon contract award, the exercise of any contract option, or the extension of the contract, the Contractor must submit to the Contracting Officer for approval an Internal Audit Implementation Design to include the overall strategy for internal audits. The Audit Implementation Design must describe—
 - (i) The internal audit organization's placement within the contractor's organization and its reporting requirements;
 - (ii) The audit organization's size and the experience and educational standards of its staff;

- (iii) The audit organization's relationship to the corporate entities of the Contractor;
 - (iv) The standards to be used in conducting the internal audits;
 - (v) The overall internal audit strategy of this contract, considering particularly the method of auditing costs incurred in the performance of the contract;
 - (vi) The intended use of external audit resources;
 - (vii) The plan for audit of subcontracts, both pre-award and post-award; and
 - (viii) The schedule for peer review of internal audits by other contractor internal audit organizations, or other independent third party audit entities approved by the DOE Contracting Officer.
- (2) By each January 31 of the contract performance period, the Contractor must submit an annual audit report, providing a summary of the audit activities undertaken during the previous fiscal year. That report shall reflect the results of the internal audits during the previous fiscal year and the actions to be taken to resolve weaknesses identified in the contractor's system of business, financial, or management controls.
- (3) By each June 30 of the contract performance period, the Contractor must submit to the Contracting Officer an annual audit plan for the activities to be undertaken by the internal audit organization during the next fiscal year that is designed to test the costs incurred and contractor management systems described in the internal audit design.
- (4) The Contracting Officer may require revisions to documents submitted under paragraphs (i)(1), (i)(2), and (i)(3) of this clause, including the design plan for the internal audits, the annual report, and the annual internal audits.
- (j) *Remedies.* If at any time during contract performance, the Contracting Officer determines that unallowable costs were claimed by the Contractor to the extent of making the contractor's management controls suspect, or the contractor's management systems that validate costs incurred and claimed suspect, the Contracting Officer may, in his or her sole discretion, require the Contractor to cease using the special financial institution account in whole or with regard to specified accounts, requiring reimbursable costs to be claimed by periodic vouchering. In addition, the Contracting Officer, where he or she deems it appropriate, may: Impose a penalty under 48 CFR 970.5242-1, Penalties for

Unallowable Costs; require a refund; reduce the contractor's otherwise earned fee; and take such other action as authorized in law, regulation, or this contract.

I.150 - DEAR 970.5232-4 OBLIGATION OF FUNDS (DEC 2000) (PREV. I.104)

- (a) *Obligation of funds.* The amount presently obligated by the Government with respect to this contract is \$12,429,682,965.97. Such amount may be increased unilaterally by DOE by written notice to the Contractor and may be increased or decreased by written agreement of the parties (whether or not by formal modification of this contract). Estimated collections from others for work and services to be performed under this contract are not included in the amount presently obligated. Such collections, to the extent actually received by the Contractor, shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract. Nothing in this paragraph is to be construed as authorizing the Contractor to exceed limitations stated in financial plans established by DOE and furnished to the Contractor from time to time under this contract.
- (b) *Limitation on payment by the Government.* Except as otherwise provided in this contract and except for costs which may be incurred by the Contractor pursuant to the Termination clause of this contract or costs of claims allowable under the contract occurring after completion or termination and not released by the Contractor at the time of financial settlement of the contract in accordance with the clause entitled "Payments and Advances," payment by the Government under this contract on account of allowable costs shall not, in the aggregate, exceed the amount obligated with respect to this contract, less the Contractor's fee and any negotiated fixed amount. Unless expressly negated in this contract, payment on account of those costs excepted in the preceding sentence which are in excess of the amount obligated with respect to this contract shall be subject to the availability of:
 - (1) Collections accruing to the Contractor in connection with the work under this contract and processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract, and
 - (2) Other funds which DOE may legally use for such purpose, provided DOE will use its best efforts to obtain the appropriation of funds for this purpose if not otherwise available.
- (c) *Notices--Contractor excused from further performance.* The Contractor shall notify DOE in writing whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), plus the Contractor's best estimate of collections to be received and available during the

45 day period hereinafter specified, is in the Contractor's best judgment sufficient to continue contract operations at the programmed rate for only 45 days and to cover the Contractor's unpaid fee and any negotiated fixed amounts, and outstanding encumbrances and liabilities on account of costs allowable under the contract at the end of such period. Whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), less the amount of the Contractor's fee then earned but not paid and any negotiated fixed amounts, is in the Contractor's best judgment sufficient only to liquidate outstanding encumbrances and liabilities on account of costs allowable under this contract, the Contractor shall immediately notify DOE and shall make no further encumbrances or expenditures (except to liquidate existing encumbrances and liabilities), and, unless the parties otherwise agree, the Contractor shall be excused from further performance (except such performance as may become necessary in connection with termination by the Government) and the performance of all work hereunder will be deemed to have been terminated for the convenience of the Government in accordance with the provisions of the Termination clause of this contract.

- (d) *Financial plans; cost and encumbrance limitations.* In addition to the limitations provided for elsewhere in this contract, DOE may, through financial plans, such as Approved Funding Programs, or other directives issued to the Contractor, establish controls on the costs to be incurred and encumbrances to be made in the performance of the contract work. Such plans and directives may be amended or supplemented from time to time by DOE. The Contractor agrees –
 - (1) To comply with the specific limitations (ceilings) on costs and encumbrances set forth in such plans and directives;
 - (2) To comply with other requirements of such plans and directives; and
 - (3) To notify DOE promptly, in writing, whenever it has reason to believe that any limitation on costs and encumbrances will be exceeded or substantially underrun.
- (e) Government's right to terminate not affected. The giving of any notice under this clause shall not be construed to waive or impair any right of the Government to terminate the contract under the provisions of the Termination clause of this contract.

I.151 - DEAR 970.5232-5 LIABILITY WITH RESPECT TO COST ACCOUNTING STANDARDS (DEC 2000) (PREV. I.105)

- (a) The Contractor is not liable to the Government for increased costs or interest resulting from its failure to comply with the clauses of this contract entitled, "Cost Accounting Standards," and "Administration of Cost Accounting Standards," if its

failure to comply with the clauses is caused by the Contractor's compliance with published DOE financial management policies and procedures or other requirements established by the Department's Chief Financial Officer or Senior Procurement Executive.

- (b) The Contractor is not liable to the Government for increased costs or interest resulting from its subcontractors' failure to comply with the clauses at FAR 52.230-2, "Cost Accounting Standards," and FAR 52.230-6, "Administration of Cost Accounting Standards," if the Contractor includes in each covered subcontract a clause making the subcontractor liable to the Government for increased costs or interest resulting from the subcontractor's failure to comply with the clauses; and the Contractor seeks the subcontract price adjustment and cooperates with the Government in the Government's attempts to recover from the subcontractor.

I.152 - DEAR 970.5232-6 STRATEGIC PARTNERSHIP PROJECTS FUNDING AUTHORIZATION (April 23, 2015) (PREV. I.106)

Any uncollectible receivables resulting from the Contractor utilizing contractor corporate funding for reimbursable work shall be the responsibility of the Contractor, and the United States Government shall have no liability to the Contractor for the Contractor's uncollected receivables. The Contractor is permitted to provide advance payment utilizing contractor corporate funds for reimbursable work to be performed by the Contractor for a non-Federal entity in instances where advance payment from that entity is required under the Laws, regulations, and DOE directives clause of this contract and such advance cannot be obtained. The Contractor is also permitted to provide advance payment utilizing contractor corporate funds to continue reimbursable work to be performed by the Contractor for a Federal entity when the term or the funds on a Federal interagency agreement required under the Laws, regulations, and DOE directives clause of this contract have elapsed. The Contractor's utilization of contractor corporate funds does not relieve the Contractor of its responsibility to comply with all requirements for Strategic Partnership Projects applicable to this contract.

I.153 - DEAR 970.5232-7 FINANCIAL MANAGEMENT SYSTEM (DEC 2000) (PREV. I.107)

The Contractor shall maintain and administer a financial management system that is suitable to provide proper accounting in accordance with DOE requirements for assets, liabilities, collections accruing to the Contractor in connection with the work under this contract, expenditures, costs, and encumbrances; permits the preparation of accounts and accurate, reliable financial and statistical reports; and assures that accountability for the assets can be maintained. The Contractor shall submit to DOE for written approval an annual plan for new financial management systems and/or subsystems and major enhancements and/or upgrades to the currently existing financial systems and/or

subsystems. The Contractor shall notify DOE thirty (30) days in advance of any planned implementation of any substantial deviation from this plan and, as requested by the Contracting Officer, shall submit any such deviation to DOE for written approval before implementation.

I.154 - DEAR 970.5232-8 INTEGRATED ACCOUNTING (DEC 2000) (PREV. I.108)

Integrated accounting procedures are required for use under this contract. The Contractor's financial management system shall include an integrated accounting system that is linked to DOE's accounts through the use of reciprocal accounts and that has electronic capability to transmit monthly and year-end self-balancing trial balances to the Department's Primary Accounting System for reporting financial activity under this contract in accordance with requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this contract.

I.155 - DEAR 970.5235-1 FEDERALLY FUNDED RESEARCH AND DEVELOPMENT CENTER SPONSORING AGREEMENT (DEC 2010) (PREV. I.109)

- (a) Pursuant to 48 CFR 35.017-1, this contract constitutes the sponsoring agreement between the Department of Energy (DOE) and the Contractor, which establishes the relationship for the operation of a Department of Energy sponsored Federally Funded Research and Development Center (FFRDC).
- (b) In the operation of this FFRDC, the Contractor may be provided access beyond that which is common to the normal contractual relationship, to Government and supplier data, including sensitive and proprietary data, and to Government employees and facilities needed to discharge its responsibilities efficiently and effectively. Because of this special relationship, it is essential that the FFRDC be operated in the public interest with objectivity and independence, be free from organizational conflicts of interest, and have full disclosure of its affairs to the Department of Energy.
- (c) Unless otherwise provided by the contract, the Contractor may accept work from a nonsponsor (as defined in 48 CFR 35.017) in accordance with the requirements and limitations of the clause 48 CFR 970.5217-1, Strategic Partnership Projects Program.
- (d) As an FFRDC, the Contractor shall not use its privileged information or access to government facilities to compete with the private sector. Specific guidance on restricted activities is contained in DOE Order 481.1C, Strategic Partnership Projects (Formerly Known as Work for Others (Non-Department of Energy Funded Work)), or successor version.

I.156 - DEAR 970.5236-1 GOVERNMENT FACILITY SUBCONTRACT APPROVAL
(DEC 2000) [SC ALTERNATE APR 2018] (PREV. I.110)

The Contractor shall procure, by subcontract, the construction of new facilities or the alteration or repair of Government-owned facilities at the site. All such subcontracts which meet the review thresholds established in Appendix G shall be subject to the written approval of the Contracting Officer.

I.157 - DEAR 970.5242-1 PENALTIES FOR UNALLOWABLE COSTS (AUG 2009)
(PREV. I.112)

- (a) Contractors which include unallowable cost in a submission for settlement for cost incurred, may be subject to penalties.
- (b) If, during the review of a submission for settlement of cost incurred, the Contracting Officer determines that the submission contains an expressly unallowable cost or a cost determined to be unallowable prior to the submission, the Contracting Officer shall assess a penalty.
- (c) Unallowable costs are either expressly unallowable or determined unallowable.
 - (1) An expressly unallowable cost is a particular item or type of cost which, under the express provisions of an applicable law, regulation, or this contract, is specifically named and stated to be unallowable.
 - (2) A cost determined unallowable is one which, for that Contractor—
 - (i) Was subject to a Contracting Officer's final decision and not appealed;
 - (ii) The Civilian Board of Contract Appeals or a court has previously ruled as unallowable; or
 - (iii) Was mutually agreed to be unallowable.
- (d) If the Contracting Officer determines that a cost submitted by the Contractor in its submission for settlement of cost incurred is--
 - (1) Expressly unallowable, then the Contracting Officer shall assess a penalty in an amount equal to the disallowed cost allocated to this contract plus interest on the paid portion of the disallowed cost. Interest shall be computed from the date of overpayment to the date of repayment using the interest rate specified by the Secretary of the Treasury pursuant to Pub. L. 92-41 (85 Stat. 97); or

- (2) Determined unallowable, then the Contracting Officer shall assess a penalty in an amount equal to two times the amount of the disallowed cost allocated to this contract.
- (e) The Contracting Officer may waive the penalty provisions when –
 - (1) The Contractor withdraws the submission before the formal initiation of an audit of the submission and submits a revised submission;
 - (2) The amount of the unallowable costs allocated to covered contracts is \$10,000 or less; or
 - (3) The Contractor demonstrates to the Contracting Officer's satisfaction that—
 - (i) It has established appropriate policies, personnel training, and an internal control and review system that provides assurances that unallowable costs subject to penalties are precluded from the Contractor's submission for settlement of costs; and
 - (ii) The unallowable costs subject to the penalty were inadvertently incorporated into the submission.

I.158 - DEAR 970.5243-1 CHANGES (DEC 2000) (PREV. I.113)

- (a) *Changes and adjustment of fee.* The Contracting Officer may at any time and without notice to the sureties, if any, issue written directions within the general scope of this contract requiring additional work or directing the omission of, or variation in, work covered by this contract. If any such direction results in a material change in the amount or character of the work described in the "Statement of Work," an equitable adjustment of the fee, if any, shall be made in accordance with the agreement of the parties and the contract shall be modified in writing accordingly. Any claim by the Contractor for an adjustment under this clause must be asserted in writing within 30 days from the date of receipt by the Contractor of the notification of change; provided, however, that the Contracting Officer, if it is determined that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under this contract. A failure to agree on an equitable adjustment under this clause shall be deemed to be a dispute within the meaning of the clause entitled "Disputes."
- (b) *Work to continue.* Nothing contained in this clause shall excuse the Contractor from proceeding with the prosecution of the work in accordance with the requirements of any direction hereunder.

I.159 - DEAR 970.5244-1 CONTRACTOR PURCHASING SYSTEM (AUG 2016) (PF 2013-64, PF 2015-17) [SC ALTERNATE SEP 2018] (PREV. I.114)

- (a) The Contractor shall develop, implement, and maintain formal policies, practices, and procedures to be used in the award of subcontracts consistent with this clause, with 48 CFR subpart 970.44. The Contractor's purchasing system and methods shall be fully documented, consistently applied, and acceptable to the Department of Energy (DOE) in accordance with 48 CFR 970.4401-1. The Contractor shall maintain file documentation which is appropriate to the value of the purchase and is adequate to establish the propriety of the transaction and the price paid. The Contractor's purchasing performance will be evaluated against such performance criteria and measures as may be set forth elsewhere in this contract. DOE reserves the right at any time to require that the Contractor submit for approval any or all subcontracted efforts or purchases under this contract. The Contractor shall not purchase any item or service, the purchase of which is expressly prohibited by the written direction of DOE, and shall use such special and directed sources as may be expressly required by the DOE Contracting Officer. DOE will conduct periodic appraisals of the Contractor's management of all facets of the purchasing function, including the Contractor's compliance with its approved system and methods. Such appraisals will be performed through the conduct of Contractor Purchasing System Reviews in accordance with 48 CFR subpart 44.3, or, when approved by the Contracting Officer, through the Contractor's participation in the conduct of the Balanced Scorecard performance measurement and performance management system. The Contractor's approved purchasing system and methods shall include the requirements set forth in paragraphs (f) through (y) of this clause.
- (b) *Acquisition of utility services.* Utility services shall be acquired in accordance with the requirements of 48 CFR subpart 970.41.
- (c) *Acquisition of real property.* Real property shall be acquired in accordance with 48 CFR subpart 917.74.
- (d) *Advance notice of proposed subcontract awards.* Advance notice shall be provided in accordance with 48 CFR 970.4401-3.
- (e) *Audit of subcontractors.*
 - (1) The Contractor shall provide for—
 - (i) Periodic post-award audit of cost-reimbursement subcontractors at all tiers; and
 - (ii) Audits, where necessary, to provide a valid basis for pre-award or cost or price analysis.

- (2) Responsibility for determining the costs allowable under each cost-reimbursement subcontract remains with the contractor or next higher-tier subcontractor. The Contractor shall provide, in appropriate cases, for the timely involvement of the Contractor and the DOE Contracting Officer in resolution of subcontract cost allowability.
 - (3) Where audits of subcontractors at any tier are required, arrangements may be made to have the cognizant Federal agency perform the audit of the subcontract, or the contractor may work with the cognizant Federal agency to employ external auditors to support mandatory subcontractor audits. These arrangements shall be made administratively between DOE and the other agency involved and shall provide for the cognizant Federal agency to audit in an appropriate manner in light of the magnitude and nature of the subcontract. In no case, however, shall these arrangements preclude determination by the DOE Contracting Officer of the allowability or unallowability of subcontractor costs claimed for reimbursement by the Contractor.
 - (4) Allowable costs for cost reimbursable subcontracts are to be determined in accordance with the cost principles of 48 CFR Part 31, appropriate for the type of organization to which the subcontract is to be awarded, as supplemented by 48 CFR part 931. Allowable costs in the purchase or transfer from contractor-affiliated sources shall be determined in accordance with 48 CFR 970.4402-3 and 48 CFR 31.205-26(e).
- (f) *Bonds and insurance.*
- (1) The Contractor shall require performance bonds in penal amounts as set forth in 48 CFR 28.102-2(a) for all fixed-priced and unit-priced construction subcontracts in excess of \$150,000. The Contractor shall consider the use of performance bonds in fixed-price non-construction subcontracts, where appropriate.
 - (2) For fixed-price, unit-priced and cost reimbursement construction subcontracts in excess of \$150,000, a payment bond shall be obtained on Standard Form 25A modified to name the Contractor as well as the United States of America as obligees. The penal amounts shall be determined in accordance with 48 CFR 28.102-2(b).
 - (3) For fixed-price, unit-priced and cost-reimbursement construction subcontracts greater than \$25,000, but not greater than \$150,000, the Contractor shall select two or more of the payment protections at 48 CFR 28.102-1(b), giving particular consideration to the inclusion of an irrevocable letter of credit as one of the selected alternatives.

- (4) A subcontractor may have more than one acceptable surety in both construction and other subcontracts, provided that in no case will the liability of any one surety exceed the maximum penal sum for which it is qualified for any one obligation. For subcontracts other than construction, a co-surety (two or more sureties together) may reinsure amounts in excess of their individual capacity, with each surety having the required underwriting capacity that appears on the list of acceptable corporate sureties.
- (g) *Buy American.* The Contractor shall comply with the provisions of the Buy American Act as reflected in 48 CFR 52.225-1 and 48 CFR 52.225-9. The Contractor shall forward determinations of non-availability of individual items to the DOE Contracting Officer for approval. Items in excess of \$500,000 require the prior concurrence of the Head of Contracting Activity. If, however, the Contractor has an approved purchasing system, the Head of the Contracting Activity may authorize the Contractor to make determinations of non-availability for individual items valued at \$500,000 or less.
- (h) *Construction and architect-engineer subcontracts.*
 - (1) Independent Estimates. A detailed, independent estimate of costs shall be prepared for all construction work expected to exceed the simplified acquisition threshold to be subcontracted.
 - (2) Specifications. Specifications for construction shall be prepared in accordance with the DOE publication entitled "General Design Criteria Manual."
 - (3) Prevention of conflict of interest.
 - (i) The Contractor shall not award a subcontract for construction to the architect-engineer firm or an affiliate that prepared the design. This prohibition does not preclude the award of a "turnkey" subcontract so long as the subcontractor assumes all liability for defects in design and construction and consequential damages.
 - (ii) The Contractor shall not award both a cost-reimbursement subcontract and a fixed-price subcontract for construction or architect-engineer services or any combination thereof to the same firm where those subcontracts will be performed at the same site.
 - (iii) The Contractor shall not employ the construction subcontractor or an affiliate to inspect the firm's work. The contractor shall assure that the working relationships of the construction subcontractor and the subcontractor inspecting its work and the authority of the inspector are clearly defined.

- (i) *Contractor-affiliated sources.* Equipment, materials, supplies, or services from a contractor-affiliated source shall be purchased or transferred in accordance with 48 CFR 970.4402-3.
- (j) *Contractor-subcontractor relationship.* The obligations of the Contractor under paragraph (a) of this clause, including the development of the purchasing system and methods, and purchases made pursuant thereto, shall not relieve the Contractor of any obligation under this contract (including, among other things, the obligation to properly supervise, administer, and coordinate the work of subcontractors). Subcontracts shall be in the name of the Contractor, and shall not bind or purport to bind the Government.
- (k) *Government Property.* The Contractor shall establish and maintain a property management system that complies with criteria in 48 CFR 970.5245-1, Property.
- (l) *Indemnification.* Except for Price-Anderson Nuclear Hazards Indemnity, no subcontractor may be indemnified except with the prior approval of the Senior Procurement Executive.
- (m) *Leasing of motor vehicles.* Contractors shall comply with 48 CFR subpart 8.11 and 48 CFR subpart 908.11.
- (n) [Reserved]
- (o) *Management, acquisition and use of information resources.* Requirements for automatic data processing resources and telecommunications facilities, services, and equipment, shall be reviewed and approved in accordance with applicable DOE Orders and regulations regarding information resources.
- (p) *Priorities, allocations and allotments.* Priorities, allocations and allotments shall be extended to appropriate subcontracts in accordance with the clause or clauses of this contract dealing with priorities and allocations.
- (q) *Purchase of special items.* Purchase of the following items shall be in accordance with the following provisions of 48 CFR subpart 8.5, 48 CFR subpart 908.71, Federal Management Regulation 41 CFR part 102, and the Federal Property Management Regulation 41 CFR chapter 101:
 - (1) Motor vehicles—48 CFR 908.7101
 - (2) Aircraft—48 CFR 908.7102
 - (3) Security Cabinets—48 CFR 908.7106
 - (4) Alcohol—48 CFR 908.7107

- (5) Helium—48 CFR subpart 8.5
- (6) Fuels and packaged petroleum products—48 CFR 908.7109
- (7) Coal—48 CFR 908.7110
- (8) Arms and Ammunition—48 CFR 908.7111
- (9) Heavy Water—48 CFR 908.7121(a)
- (10) Precious Metals—48 CFR 908.7121(b)
- (11) Lithium—48 CFR 908.7121(c)
- (12) Products and services of the blind and severely handicapped—41 CFR 101-26.701
- (13) Products made in Federal penal and correctional institutions—41 CFR 101-26.702
- (r) *Purchase versus lease determinations.* Contractors shall determine whether required equipment and property should be purchased or leased, and establish appropriate thresholds for application of lease versus purchase determinations. Such determinations shall be made—
 - (1) At time of original acquisition;
 - (2) When lease renewals are being considered; and
 - (3) At other times as circumstances warrant.
- (s) *Quality assurance.* Contractors shall provide no less protection for the Government in its subcontracts than is provided in the prime contract.
- (t) *Setoff of assigned subcontractor proceeds.* Where a subcontractor has been permitted to assign payments to a financial institution, the assignment shall treat any right of setoff in accordance with 48 CFR 932.803.
- (u) *Strategic and critical materials.* The Contractor may use strategic and critical materials in the National Defense Stockpile.
- (v) *Termination.* When subcontracts are terminated as a result of the termination of all or a portion of this contract, the Contractor shall settle with subcontractors in conformity with the policies and principles relating to settlement of prime contracts in 48 CFR subparts 49.1, 49.2 and 49.3. When subcontracts are terminated for reasons other than termination of this contract, the Contractor

shall settle such subcontracts in general conformity with the policies and principles in 48 CFR subparts 49.1, 49.2, 49.3 and 49.4. Each such termination shall be documented and consistent with the terms of this contract. Terminations which require approval by the Government shall be supported by accounting data and other information as may be directed by the Contracting Officer.

- (w) *Unclassified controlled nuclear information.* Subcontracts involving unclassified uncontrolled nuclear information shall be treated in accordance with 10 CFR part 1017.
- (x) *Subcontract flowdown requirements.* In addition to terms and conditions that are included in the prime contract which direct application of such terms and conditions in appropriate subcontracts, the Contractor shall include the following clauses in subcontracts, as applicable:
 - (1) Davis-Bacon clauses prescribed in 48 CFR 22.407.
 - (2) Foreign Travel clause prescribed in 48 CFR 952.247-70.
 - (3) Counterintelligence clause prescribed in 48 CFR 970.0404-4(a).
 - (4) Service Contract Act clauses prescribed in 48 CFR 22.1006.
 - (5) State and local taxes clause prescribed in 48 CFR 970.2904-1.
 - (6) Cost or pricing data clauses prescribed in 48 CFR 970.
 - (7) Nondisplacement of Qualified Workers clause prescribed in 48 CFR 22.1207.
 - (8) Service Contract Reporting clause prescribed in 48 CFR 4.1705.
 - (9) Minimum Wages under Executive Order 13658 clause prescribed in 48 CFR 22.1906.
- (y) *Legal services.* Contractor purchases of litigation and other legal services are subject to the requirements in 10 CFR part 719 and the requirements of this clause.

I.160 - DEAR 970.5245-1 PROPERTY (AUG 2016) ALTERNATE I (AUG 2016) (PREV. I.115)

- (a) *Furnishing of Government property.* The Government reserves the right to furnish any property or services required for the performance of the work under this contract.

- (b) *Title to property.* Except as otherwise provided by the Contracting Officer, title to all materials, equipment, supplies, and tangible personal property of every kind and description purchased by the Contractor, for the cost of which the Contractor is entitled to be reimbursed as a direct item of cost under this contract, shall pass directly from the vendor to the Government. The Government reserves the right to inspect, and to accept or reject, any item of such property. The Contractor shall make such disposition of rejected items as the Contracting Officer shall direct. Title to other property, the cost of which is reimbursable to the Contractor under this contract, shall pass to and vest in the Government upon (1) issuance for use of such property in the performance of this contract, or (2) commencement of processing or use of such property in the performance of this contract, or (3) reimbursement of the cost thereof by the Government, whichever first occurs. Property furnished by the Government and property purchased or furnished by the Contractor, title to which vests in the Government, under this paragraph are hereinafter referred to as Government property. Title to Government property shall not be affected by the incorporation of the property into or the attachment of it to any property not owned by the Government, nor shall such Government property or any part thereof, be or become a fixture or lose its identity as personality by reason of affixation to any realty.
- (c) *Identification.* To the extent directed by the Contracting Officer, the Contractor shall identify Government property coming into the Contractor's possession or custody, by marking and segregating in such a way, satisfactory to the Contracting Officer, as shall indicate its ownership by the Government.
- (d) *Disposition.* The Contractor shall make such disposition of Government property which has come into the possession or custody of the Contractor under this contract as the Contracting Officer may direct during the progress of the work or upon completion or termination of this contract. The Contractor may, upon such terms and conditions as the Contracting Officer may approve, sell, or exchange such property, or acquire such property at a price agreed upon by the Contracting Officer and the Contractor as the fair value thereof. The amount received by the Contractor as the result of any disposition, or the agreed fair value of any such property acquired by the Contractor, shall be applied in reduction of costs allowable under this contract or shall be otherwise credited to account to the Government, as the Contracting Officer may direct. Upon completion of the work or the termination of this contract, the Contractor shall render an accounting, as prescribed by the Contracting Officer, of all government property which had come into the possession or custody of the Contractor under this contract.
- (e) *Protection of government property—management of high-risk property and classified materials.*
 - (1) The Contractor shall take all reasonable precautions, and such other actions as may be directed by the Contracting Officer, or in the absence of

such direction, in accordance with sound business practice, to safeguard and protect government property in the Contractor's possession or custody.

- (2) In addition, the Contractor shall ensure that adequate safeguards are in place, and adhered to, for the handling, control and disposition of high-risk property and classified materials throughout the life cycle of the property and materials consistent with the policies, practices and procedures for property management contained in the Federal Property Management Regulations (41 CFR chapter 101), the Department of Energy (DOE) Property Management Regulations (41 CFR chapter 109), and other applicable Regulations.
- (3) High-risk property is property, the loss, destruction, damage to, or the unintended or premature transfer of which could pose risks to the public, the environment, or the national security interests of the United States. High-risk property includes proliferation sensitive, nuclear related dual use, export controlled, chemically or radioactively contaminated, hazardous, and specially designed and prepared property, including property on the militarily critical technologies list.

(f) *Risk of loss of Government property.*

- (1) (i) The Contractor shall not be liable for the loss or destruction of, or damage to, Government property unless such loss, destruction, or damage was caused by any of the following—
 - (A) Willful misconduct or lack of good faith on the part of the Contractor's managerial personnel;
 - (B) Failure of the Contractor's managerial personnel to take all reasonable steps to comply with any appropriate written direction of the Contracting Officer to safeguard such property under paragraph (e) of this clause; or
 - (C) Failure of contractor managerial personnel to establish, administer, or properly maintain an approved property management system in accordance with paragraph (i)(1) of this clause.
- (ii) If, after an initial review of the facts, the Contracting Officer informs the Contractor that there is reason to believe that the loss, destruction of, or damage to the government property results from conduct falling within one of the categories set forth above, the burden of proof shall be upon the Contractor to show that the Contractor should not be required to compensate the government for the loss, destruction, or damage.

- (2) In the event that the Contractor is determined liable for the loss, destruction or damage to Government property in accordance with (f)(1) of this clause, the Contractor's compensation to the Government shall be determined as follows:
 - (i) For damaged property, the compensation shall be the cost of repairing such damaged property, plus any costs incurred for temporary replacement of the damaged property. However, the value of repair costs shall not exceed the fair market value of the damaged property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
 - (ii) For destroyed or lost property, the compensation shall be the fair market value of such property at the time of such loss or destruction, plus any costs incurred for temporary replacement and costs associated with the disposition of destroyed property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
- (3) The portion of the cost of insurance obtained by the Contractor that is allocable to coverage of risks of loss referred to in paragraph (f)(1) of this clause is not allowable.
- (g) *Steps to be taken in event of loss.* In the event of any damage, destruction, or loss to Government property in the possession or custody of the Contractor with a value above the threshold set out in the Contractor's approved property management system, the Contractor —
 - (1) Shall immediately inform the Contracting Officer of the occasion and extent thereof,
 - (2) Shall take all reasonable steps to protect the property remaining, and
 - (3) Shall repair or replace the damaged, destroyed, or lost property in accordance with the written direction of the Contracting Officer. The Contractor shall take no action prejudicial to the right of the Government to recover therefore, and shall furnish to the Government, on request, all reasonable assistance in obtaining recovery.
- (h) *Government property for Government use only.* Government property shall be used only for the performance of this contract.
- (i) *Property Management—*
 - (1) *Property Management System.*

- (i) The Contractor shall establish, administer, and properly maintain an approved property management system of accounting for and control, utilization, maintenance, repair, protection, preservation, and disposition of Government property in its possession under the contract. The Contractor's property management system shall be submitted to the Contracting Officer for approval and shall be maintained and administered in accordance with sound business practice, applicable Federal Property Management Regulations and Department of Energy Property Management Regulations, and such directives or instructions which the Contracting Officer may from time to time prescribe.
 - (ii) In order for a property management system to be approved, it must provide for—
 - (A) Comprehensive coverage of property from the requirement identification, through its life cycle, to final disposition;
 - (B) [Reserved]
 - (C) Full integration with the Contractor's other administrative and financial systems; and
 - (D) A method for continuously improving property management practices through the identification of best practices established by “best in class” performers.
 - (iii) Approval of the Contractor's property management system shall be contingent upon the completion of the baseline inventory as provided in subparagraph (i)(2) of this clause.
- (2) *Property Inventory.*
- (i) Unless otherwise directed by the Contracting Officer, the Contractor shall within six months after execution of the contract provide a baseline inventory covering all items of Government property.
 - (ii) If the Contractor is succeeding another contractor in the performance of this contract, the Contractor shall conduct a joint reconciliation of the property inventory with the predecessor contractor. The Contractor agrees to participate in a joint reconciliation of the property inventory at the completion of this contract. This information will be used to provide a baseline for the succeeding contract as well as information for closeout of the predecessor contract.
- (j) The term “contractor's managerial personnel” as used in this clause means the Contractor's directors, officers and any of its managers, superintendents, or other

equivalent representatives who have supervision or direction of all or substantially all of—

- (1) The Contractor's business; or
 - (2) The Contractor's operations at any one facility or separate location at which this contract is being performed; or
 - (3) The Contractor's Government property system and/or a Major System Project as defined in DOE Order 413.3B, or successor version (Version in effect on effective date of contract).
- (k) The Contractor shall include this clause in all cost reimbursable subcontracts.

PART III

List of Documents, Exhibits and Other Attachments

Section J - List of Attachments

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J.2	Appendix B - Performance Evaluation and Measurement Plan
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ATTACHMENT J.1

APPENDIX A

ADVANCE UNDERSTANDINGS ON HUMAN RESOURCES

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

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Appendix A

ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY
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SECTION I - INTRODUCTION

- (a) This Advance Understanding is intended to document the principles and measures for evaluation of the Contractor's Human Resource Management (CHRM) programs and other items of allowable personnel costs and related expenses not specifically addressed elsewhere under this contract. LBNL employees are covered by University personnel policies and the terms of this contract. Accordingly, costs incurred pursuant to University policy and other terms of this contract are allowable and are not otherwise specifically set forth in this appendix. LBNL implementation of University policy may include specific adaptations and variations when approved by the University. Any changes to the personnel policies or practices in place as of the effective date of this contract which would increase costs, is subject to approval in advance by the Contracting Officer.
- (b) LBNL CHRM programs will comply with the Federal Acquisition Regulation (FAR) cost principles and FAR contract clauses, as supplemented by the Department of Energy Acquisition Regulation (DEAR), for all HR programs, including but not limited to Compensation, Health and Welfare Benefits, Pension Plans, Training and Development, Employee Morale, Employee and Labor Relations, Recruitment and Relocation. The Contractor shall use effective management review procedures and internal controls to assure compliance with the FAR and DEAR.
- (c) This Appendix A may be modified from time to time by agreement of the Parties. Either Party may, at any time request that this Appendix A be revised, and the Parties hereto agree to negotiate in good faith concerning any requested revision. Revisions to this Appendix A shall be accomplished by executing an Advance Understanding modification as approved by the DOE Contracting Officer.
- (d) The Laboratory Director may make exceptions to the provisions of Appendix A when such exceptions are in the best interest of contract operations or will facilitate or enhance contract performance and are approved in advance by the Contracting Officer.
- (e) The Contractor, or designated representative, shall promptly furnish all reports and information required or otherwise indicated in this Advance Understanding to the Contracting Officer. The Contractor recognizes that the Contracting Officer or designated representative may make other data requests from time to time and the Contractor agrees to cooperate in meeting requests.
- (f) It is understood that no provision of this Appendix can affect any right guaranteed to a bargaining unit employee by the terms of a Collective Bargaining Agreement.

- (g) For purposes of this Appendix, "Laboratory Director" may include other individuals as specified in writing to have the authority to act on his or her behalf.

SECTION II - COMPENSATION

(a) Salary increases.

- (1) The Contracting Officer's approval of compensation actions pursuant to H.21(c) will consider:
- (i) relative alignment of proposed salaries with subordinate levels;
 - (ii) available market data, comparing total-cash compensation;
 - (iii) total compensation relative to the maximum compensation reimbursement level, per the Bipartisan Budget Act of 2013 (BBA), Section 702, Limitation on Allowable Government Contractor Compensation Costs.

(b) Administrative stipends.

- (1) Administrative stipends for temporary assignments. An administrative stipend may be paid to any employee who is temporarily assigned responsibilities of a higher level position or other significant duties not part of the employee's regular position. The sum of stipend and base salary shall not exceed the maximum salary of the higher level position. The Laboratory Director may authorize an administrative stipend up to 15% of the appointee's annual base salary or not less than the minimum of the range of the higher level responsibilities for a period not to exceed two years. For Scientific management temporary assignments, the Laboratory Director may authorize an administrative stipend up to 30% of the appointee's annual base salary or not less than the minimum of the range of the higher level responsibilities for a period not to exceed two years. The entire amount of all stipends shall be removed when the employee reverts back to their original position.
- (2) Faculty Division Directors. An administrative stipend may be paid to a Faculty Division Director which is calculated as a percentage of their annualized base salary figure determined by the campus. The receipt of the stipend will continue for the individual's tenure in the position.
- (3) Faculty in Scientific and Engineering (S&E) management assignments. An administrative stipend up to 30% may be paid to Faculty in S&E management assignments, which is calculated as a percentage of their

annualized base salary figure determined by the campus. The receipt of the stipend will continue for the individual's tenure in the position.

- (4) All stipends shall be reported annually to the Contracting Officer by December 15th.

(c) Compensation Increase Plan (CIP).

- (1) The Contractor shall submit the CIP proposal 90 days prior to the beginning of the succeeding fiscal year.
- (2) In order to pay "on-market-on-average," in the calculation of market position, Laboratory salary data shall be matched to survey data as of April 1, the midpoint of the fiscal year.
- (3) The CIP shall be expressed as a percentage of the projected September 30 reimbursed base payroll.
- (4) The Contractor is authorized a Promotion/Adjustment fund of up to 1% of base reimbursed payroll. Additional funding for promotions/adjustments shall be included in the CIP request as a discrete line item.

(d) Payment of University of California Faculty.

- (1) Faculty compensation reimbursed to the home institution for the percentage of time worked at the host institution shall be paid at the salary and fringe benefit rates established by the home institution.
- (2) Faculty compensation paid directly for summer service will be in accordance with University of California Academic Personnel Policy, based upon the salary rate established by the home institution.

(e) Special De Minimis Teaching Arrangement with University of California campuses.

- (1) Scientists and Engineers, in addition to accomplishing their LBNL responsibilities, are authorized to teach one course in the subjects of science, engineering or math every two years at any University of California campus.

SECTION III - ANCILLARY PAY COMPONENTS

(a) Modified workweek.

The Laboratory Director may designate a workweek of less than five days within a pay week for selected employees, or groups of employees, when warranted.

(b) Extended workweek.

- (1) An extended workweek is an established workweek which exceeds 40 hours each week for a period which it is anticipated will extend beyond four consecutive weeks.
- (2) When deemed essential to the performance of work under this contract, an extended workweek may be established at the Laboratory.

(c) Operational workweek.

- (1) An "operational workweek" is a workweek established when overtime is required for field or test activities away from regular Laboratory sites. Such workweeks are normally for 54 hours per week, but may be for more.
- (2) An exempt employee assigned to an operational workweek may be paid supplemental pay calculated at a prorated percentage of the monthly base salary.

(d) Shift differential.

A shift differential shall be paid to each nonexempt employee who is required by management to work an assigned swing or owl shift, in the amount of 7.5% for swing shift and 15% for owl shift.

(e) Call-in pay.

Any nonexempt employee called in for emergency work outside of his/her regularly scheduled hours shall be paid at least four hours at his/her straight-time hourly rate or for all hours worked at the applicable overtime rate, whichever is greater.

(f) On-call pay.

The Laboratory is authorized to pay exempt employees assigned to restricted on-call duty a flat rate amount not to exceed \$60 for each 24 hour period provided they are on-call for a minimum of 15 hours within a 24 hour period during the employee's normal workweek. The flat rate maximum may be increased on an annual basis not to exceed the CIP authorization for professional/administrative/technical employees. Unrestricted on-call is unpaid.

(g) Call-at-Home Pay.

The Laboratory is authorized to pay nonexempt employees up to one and one-half times the appropriate rate for all time actually worked or a minimum of one hour at one and one-half times the appropriate rate, whichever is greater, as the

result of being called at home outside of normal work hours, with or without prior notice, to perform emergency work unable to be accomplished through remote electronic access.

(h) Duty Officers.

Duty Officers are Laboratory employees required to remain on site outside of normally scheduled working hours so as to be promptly available. Exempt employees assigned as on-site duty officers shall be paid \$115.00 for each 24-hour period in a weekend or holiday shift worked.

(i) Special allowances.

(1) Temporary domestic assignment allowances shall be consistent with AL 2013-01 dated October 18, 2012 entitled "Contractor Domestic Extended Personnel Assignments."

(2) Foreign temporary assignment allowances. Allowances payable for official temporary change-of-station assignments in foreign areas will be at rates established by the U.S. Secretary of State.

(3) Pre-Retirement Counseling. Round trip travel expenses for an employee whose permanent duty station is outside of California may be reimbursed.

(j) Medical evacuation services/insurance. Employees required to perform official travel to foreign countries where local care is substandard (according to U.S. standards) may have coverage that pays for evacuation services to an acceptable medical facility in a proximal location on an urgent or emergency basis. The policy shall cover evacuation, expatriation of remains, and ancillary costs associated with the incident. Costs for such coverage for eligible employees are allowable.

(k) Visiting Postdoctoral Fellows Benefit Plans. The Laboratory Director is authorized to implement a Supplemental Benefits Program for employees in the Visiting Postdoctoral Fellow employee classification. The Supplemental Benefits Program will be in addition to the current Mid-Level Benefits Package provided to this group of employees. The complete benefits package for this group of employees will be comparable to the University of California Postdoctoral Scholar Benefits program minus the Long-Term Disability Insurance.

The Laboratory may utilize a Third-Party Administrator for the administration of the above noted benefits. Increased costs for the Third Party Administrator for these benefits, or an increase in the level of benefits, will require advance approval from the Contracting Officer.

An annual report on costs and enrollment in the Visiting Postdoctoral Fellows benefit plans and Third Party Administrator costs will be provided to the Contracting Officer.

SECTION IV - PAYMENTS ON TERMINATION OF EMPLOYMENT

- (a) Sick leave. Accumulated sick leave is not payable upon termination and may not be used beyond a predetermined date of termination.
- (b) Vacation.
 - (i) Accumulated vacation is payable at termination or upon extended military leave at the rate in effect as of the date of termination, including any shift differential.
 - (ii) Transfer of Credit.

When an employee changes employment between a Laboratory and a campus, medical center, or Office of the President of the University of California, vacation credit is transferred to the Laboratory or UC entity including the funds supporting the vacation credit.

- (c) Termination assistance is authorized in accordance with the UC-Managed DOE National Laboratories Policy on At Will Upper Management Personnel.

SECTION V - LABOR RELATIONS

- (a) Collective bargaining.

Costs of fringe benefits and wages paid to employees under collective bargaining agreements are allowable. All other reasonable costs and expenses, such as expenses relating to the grievance process, arbitration and arbitration awards, and other costs and expenses incurred pursuant to applicable collective bargaining agreements and revisions thereto, are also allowable.
- (b) Grievance and complaint costs.
 - (1) The Contractor may pay as an allowable cost the entire costs or some portion thereof for services rendered by a non-Laboratory hearing officer.
- (c) Bargaining Unit Activity.

Pay for absences from work by employees acting in the capacity of union officers, union stewards and committee members for time spent in handling grievances, negotiating with the Laboratory, and serving on labor management (Laboratory) committees, are allowable.

SECTION VI - STAFF SETTLEMENT COSTS

- (a) Staff Settlement Costs - The Contractor is authorized to resolve claims settlements up to \$25,000 without the advance approval of the CO. Workers' compensation claims settlements shall be in accordance with H.24.

SECTION VII - LEAVES

- (a) Security Leave.

Wages or salaries paid to employees when access authorization is suspended by DOE will be allowable costs under the following conditions:

Transfer. An employee who is transferred to an available position not requiring access authorization may continue to receive the employee's base compensation applicable to the position from which the employee was transferred until final disposition of the case.

Leave. If a position which does not require access authorization is not available, the Laboratory Director may place the employee on leave with pay at his or her base compensation until final disposition of the case.

Reinstatement. If access authorization is reinstated during or at the conclusion of the administrative review process, the employee shall be reinstated to the same or a comparable position to the one held prior to suspension of access authorization.

This section VII (a) does not apply to applicants who have not entered on duty or any employee discharged or suspended for cause under the Laboratory policies.

- (b) The following leave policies are authorized in accordance with Contractor policies, and/or any applicable State or Federal law.

Administrative Leave
Anticipated Power Interruptions Leave
Authorized Leave with Pay
Family and Medical Leave
Holidays
Investigatory Leave
Military Leave
National Defense Leave
Parental Leave
Personal Leave (Leave Without Pay)
Pregnancy Disability Leave
Professional Development Leave
Public Emergency Leave

Sick Leave
Supplemental Family Leave
Vacation
Workers' Compensation and Injury Leave

SECTION VIII - TRAINING, EDUCATION AND DEVELOPMENT

- (a) The Laboratory shall establish training, education and development programs that are consistent with DOE requirements and guidance, industry standards, and other Federal, State and local regulations. These programs shall ensure that employees are well-qualified and competent to manage facilities and meet mission requirements through administrative, professional and technical excellence.

(1) Training.

The Laboratory may permit selected employees to attend training classes while receiving full pay in order to enable them to acquire the needed skills to qualify them for more responsible jobs and maintain competence in their fields.

(2) Education.

(A) The Laboratory may approve and support educational courses taken by employees which serve to improve efficiency and productivity of Laboratory operations, increase needed skills, or prepare employees for increased responsibilities.

(B) An employee or third Party on behalf of an employee may be paid for tuition, required textbooks and fees for courses approved in advance by the Laboratory.

(3) Development.

The Contractor shall be reimbursed for the cost of personnel training and personnel development programs, including but not limited to, apprenticeship training, supervisory training, management development, career updating and redirection, and work-study and other programs supporting the development of staff in fields of interest to the Laboratory

- (b) Professional research or teaching leave. To promote the continuing professional growth and competence of employees, the Laboratory Director may grant partially subsidized leave, as described below, to a limited number of exempt employees. Such leave, to be known as professional research or teaching leave, may be spent at appropriate institutions within the United States or abroad.

- (1) The period of leave may not exceed twelve months.
- (2) Salary payments to an employee on professional research or teaching leave may not exceed the following schedule:

<u>Years of Service or Years Since Last PR or T Leave</u>	<u>PR or T Leave Not to Exceed to Six months</u>	<u>PR or T Leave 7-12 Months</u>
4 years	.89 salary	.44 salary
4 1/2 years	Regular salary	.50 salary
5 years	Regular salary	.56 salary
5 1/2 years	Regular salary	.61 salary
6 years	Regular salary	.67 salary
7 years	Regular salary	.78 salary
8 years	Regular salary	.89 salary
9 years	Regular salary	Regular salary

- (3) Cost of travel shall not be reimbursed by the Contractor.
 - (4) Vacation and sick leave shall not accrue to the individual while on professional research or teaching leave.
 - (5) If the employee voluntarily leaves Laboratory employment within one year of returning from leave, he or she must reimburse the Laboratory for all salary paid to him or her while on leave.
- (c) Professional renewal leave. The Laboratory Director may grant professional renewal leave to a limited number of Laboratory managers for furtherance of Laboratory objectives. The purpose of professional renewal leave is to provide these individuals an opportunity to attach themselves to external organizations and/or programs for the purpose of professional revitalization and development. These temporary external assignments shall be approved based on technical and programmatic relevance to assure mutual benefit to both the Laboratory and employee. General provisions:
- (1) Candidate must be either a recognized senior scientific or management series employee for whom it would not normally be practical to utilize either the advanced study program or the professional research or teaching leave.
 - (2) The period of leave shall not exceed six months.
 - (3) Salary payments, vacation, sick leave, and other benefits shall continue as if the employee were in full duty status at the Laboratory.
 - (4) The Laboratory may provide travel support in accordance with this contract.

- (5) If the employee voluntarily leaves Laboratory employment within one year of returning from leave, he or she must repay the Laboratory all funds provided in accordance with (3) and (4) above.
- (d) Graduate Student Research Assistants (GSRA) fee remission program. GSRA's may receive tuition, fee remissions, and health insurance benefits as determined by University policies.

SECTION IX - EMPLOYEE PROGRAMS

- (a) Service/Retirement/Non-Performance awards.

The Contractor is authorized to provide monetary or non-monetary recognition for achievements not based on performance. Awards may include, for example, Length of Service/Retirement Recognition; Safety Awards; Suggestion Program. The cost of awards for this program is not to exceed \$50,000 per fiscal year without prior approval of the Contracting Officer.

- (b) Performance award programs.

- (1) The Contractor may recognize employees or groups of employees who have distinguished themselves by their significant contributions and outstanding performance in the course of their work. Awards may be provided to employees or groups of employees in the form of cash. Additionally, noteworthy achievements and special efforts may be recognized by the presentation of plaques, certificates, and memorabilia.
- (2) Up to 0.2%, of the total salary base may be spent to fund performance award programs. Costs in excess of the authorized amounts shall require advance approval of the Contracting Officer.

- (c) Employee Referral Incentive Program (ERIP). The Laboratory Director is authorized to implement an Employee Referral Incentive Program. Contracting Officer approval is required for all changes to policy impacting bonus maximums.

- (d) Employee Communications. The costs incurred in the publication, printing and distribution of a newsletter, handbooks and other employee communication media designed to effectuate better employee relations and understanding of Appendix A and current employment regulations shall be reimbursed and managed in a cost effective manner.

- (e) Other.

- (1) The Contractor may develop, administer and support a variety of employee programs that will enhance employee morale. These programs may include athletic, cultural, and family activities. Participant fees may

be collected to partially offset the cost of some or all of these activities. Laboratory support may include administrative oversight and staff support. Appropriate facilities, utilities, and maintenance may be provided by the Laboratory. The level of Laboratory financial support for these programs is not to exceed \$16 per employee (full time or part time), per fiscal year. Expenditures under this program shall require the approval of the Laboratory Director.

- (2) Wellness program. Costs of a Wellness Program to promote employee health and fitness are allowable.
- (3) Dependent Care.

The Laboratory is authorized to provide a dependent care benefit program as a fringe benefit.

If applicable, the Contractor shall sub-contract the operation of a dependent care center. Support costs for labor, materials, and supplies expended for the operation of a dependent care facility are unallowable. The facility must be for the exclusive use of Laboratory employees. Expense items such as utilities, maintenance, food services, medical services, or supplies already used in support of site operations and readily available are allowable. The cost of meals shall not be allowable.

- (f) Energy Employees' Occupational Illness Compensation Program Act (EEOICPA).

The Laboratory agrees to comply with requests for information, records, and other program requirements to ensure the orderly administration and adjudication of claims under the EEOICPA.

SECTION X - COSTS OF RECRUITING PERSONNEL

- (a) The Contractor may incur costs for the recruitment of personnel, as follows:
 - (1) Costs of advertising and agency and consultant fees shall not exceed \$1,000,000 annually without prior Contracting Officer approval.
 - (2) Recruiting Expenses - The Laboratory may reimburse, consistent with other provisions of this contract, employees traveling for recruiting purposes, the actual cost incurred for the following expenses, transportation, lodging, and meals for the interviewee and, when approved by the Contracting Officer, for spouses, and other incidental expenses incurred in recruiting.

- (3) New or prospective employees who have been offered and have accepted a position, and who are required to take a pre-placement physical examination, shall be reimbursed for costs of the physical examination.
- (4) Costs associated with pre-employment screening shall be allowable.
- (b) Recruitment/Retention Tools.
 - (1) The Laboratory Director may authorize an hiring or retention bonus up to \$25,000 to recruit or retain employees with critical skills.
 - (2) The Contractor shall seek prior Contracting Officer approval for any recruitment and/or retention bonus outside of the limitations stated above in paragraph (1).
- (c) The Contractor is authorized to provide service credit to critical skill new-hires for previous relevant experience at another DOE facility or external organization. Credited service may be used to establish eligibility for, or determine accrual of, non-pension, service-based benefits; for example, vacation accrual rates and severance payments (unless severance has been paid for prior service at a DOE facility as indicated in Clause H.21(c)(1)(D)), in accordance with the contractor's policies.

SECTION XI - SPECIAL PROGRAMS

- (a) Academic cooperation program. The Laboratory Director may approve the assignment of certain selected individuals at the graduate or undergraduate level, who are currently enrolled in recognized colleges or universities, to projects proposed by the college or university and approved by the Contractor. Such assignments are to be made primarily to further the individual's training, experience and education. The training the individual receives will be credited by the academic institution. Individuals approved by the Laboratory Director under this program may be reimbursed a daily subsistence allowance in accordance with this Appendix for each day of Laboratory attendance.
- (b) Special employment programs. The Laboratory Director may authorize the administration of special employment programs for students at the postgraduate, graduate, undergraduate, and pre-college levels. The Laboratory Director may also authorize the administration of special employment programs for school teachers to advance science curriculum development in the schools. Costs associated with salaries, transportation, and relocations shall be in accordance with Contractor policies and Section I (b) above and shall be reported annually to the Contracting Officer. Internship or membership fees associated with nationally recognized programs that are paid to other institutions in support of these programs are allowable. A description of the Contractor's special employment programs shall be provided to the Contracting Officer annually.

- (c) Fellowship programs. The Contractor may incur costs associated with participation in programs (e.g., consortium arrangements such as the National Physical Sciences Consortium for Graduate Degrees for Minorities and Women and the National Consortium for Graduate Degrees for Minorities in Engineering, DOE/Contractor academy/leadership programs, Laboratory science education initiatives) to provide graduate fellowships to students in science and engineering. Costs associated with employment of students shall include salaries, transportation, and relocation. A description of these programs shall be provided annually to the Contracting Officer.
- (d) Lectures - Honoraria - travel and subsistence
- (1) The Laboratory Director may approve the payment of either a stipend, or an honorarium and costs of travel and subsistence, for a person chosen to give a lecture to or discuss problems of interest with Laboratory employees.
 - (2) When payment of travel, subsistence, and honorarium is authorized, an honorarium or stipend in excess of \$2,000 shall require the Laboratory Director's approval.

SECTION XII - REDUCTIONS IN CONTRACTOR EMPLOYMENT

Reductions in employment will be conducted in accordance with the contractor's CO-approved policies and practices and in accordance with applicable Departmental guidance on workforce restructuring, as revised from time to time.

(a) Workforce Restructuring Actions

- (1) The Contractor will notify or request approval of workforce restructuring actions in accordance with the following:

RESTRUCTURING ACTION	#EMPLOYEES POTENTIALLY IMPACTED	ACTION REQUIRED
Voluntary	100 or more	CO Notification
Involuntary	100 or more	CO Approval

- (A) The Contractor is only required to provide notification of Self-Select Voluntary Separation Programs (SSVSP) if consistent with the following parameters:
- a. In accordance with approved laboratory/contractor policies;

- b. No enhanced benefits (e.g. additional severance, pension, or other benefits in excess of those provided for under Contractor's policies and collective bargaining agreements);
 - c. No backfilling (internally or externally) or re-employment of employees for a one-year period after severance is paid. If an employee is hired or rehired prior to the one-year period, the employee may be required to pay back, to the contractor who provided the severance payment, all or a pro-rata amount of the severance received under the SSVSP. Notwithstanding the above, backfilling is permitted where a separating employee is replaced by an internal candidate provided that:
 - i. The separating employee is leaving voluntarily;
 - ii. The internal replacement is a regular, permanent employee on the contractor's payroll, not a temporary hire, staff augmentee, or someone serving under a post-doctoral program, etc.;
 - iii. The replacement results in a net reduction in headcount and costs of regular employees; and
 - iv. The replacement is accomplished in an otherwise legally compliant manner, including no unlawful intent to discriminate based upon age.
 - d. A business case is submitted 5 business days in advance of notification date that include maximum number of voluntary reductions, maximum dollars, positions/skills impacted; reasons reductions are needed, including how conducting a SSVSP will better position the contractor to conduct the mission work, copy of self-select waivers, and communication plan; and
 - e. Voluntary reductions are offered to all eligible employees in an operational unit (i.e., organization, direct/indirect category, etc.)
- (B) Actions requiring approval will additionally require a workforce restructuring plan (hereinafter, Specific Plan) prepared in accordance with DOE policy.
- (C) Approval actions shall be submitted a minimum of 10 business days prior to announcement to employees.

- (D) The Contracting Officer will review and approve any Specific Plan or diversity analysis submitted for review affecting the reduction of 100 or more employees through an involuntary separation action within 10 business days after submission of a complete package by the Contractor unless the Contractor is notified of issues necessitating an extension of time. Should DOE request additional information from the Contractor regarding any Specific Plan or diversity analysis, the Contractor will respond to such request within 3 business days.
 - (E) The Contractor must perform an adverse impact analysis (also known as a diversity analysis) as part of its determination to undertake involuntary separation action(s). A copy of the diversity analysis for involuntary separation action(s) affecting 100 or more contractor employees within a rolling 12-month period shall be submitted to the DOE site counsel, as applicable, prior to notification of employees selected for involuntary separation.
 - (F) Waivers or self-select forms that vary from those provided in DOE policy documents are subject to approval by DOE. The templates for contractor Involuntary Separation Plan, as well as the General Release and Waiver Forms, are available online at:
<http://www.energy.gov/gc/services/technology-transfer-and-procurement/office-assistant-general-counsel-labor-and-pension>.
 - (G) The Contractor is responsible and accountable for conducting and defending all voluntary and involuntary separation actions in compliance with applicable laws, regulations, and the contract terms and conditions. Notwithstanding anything to the contrary, Section I.98 – DEAR 970.5228-1 (Insurance – Litigation and Claims) of the Contract shall govern any claims that may arise out of voluntary and involuntary separation actions.
- (2) Any employee who volunteers for layoff or retirement during a time period in which the Contractor has a DOE approved or Contractor Management approved active reduction in force plan or action will be eligible for severance pay provided the termination is accepted by Laboratory management and results in the retention of an employee who otherwise would have been laid off. Severance not associated with workforce restructuring is unallowable.
- (3) Severance pay benefit.
- (A) For nonprobationary career employees, the severance payment shall be made in an amount equal to one week's pay for each year of continuous full-time equivalent service (a fractional year of full-

time equivalent service of six months or more is counted as one year of service) not to exceed a total of 26 weeks pay.

- (B) For Upper Laboratory Management and Senior Management Group, the severance payment shall be in an amount equal to four months' salary.
- (4) Pay in lieu of notice. Any employee who is involuntarily separated due to a workforce restructuring action may be given pay in lieu of the required minimum written notice of termination. Accumulated vacation credit is also paid.
- (5) The Contractor, to the extent practicable, shall provide outplacement services in the forms of skills assessment and resume preparation to those employees who are involuntarily separated due to a layoff.
- (6) Employees placed on layoff status who have completed the entry probation period may be eligible for continued participation in the DOE Displaced Worker Medical Benefits program with premiums supplemented by the Contractor based on the following schedule:
 - (A) First Year: The Contractor's contribution for an active employee
 - (B) Second Year: One half of the Contractor's Cobra premium
 - (C) Third and subsequent years: Reasonable administrative costs that exceed the two percent administrative fee paid by the displaced worker.

Eligibility is determined in accordance with Departmental policy on workforce restructuring.

ADDITIONAL REFERENCES

SECTION III - ANCILLARY PAY COMPONENTS

Overtime.

Clause I.21 FAR 52.222-4 (Contract Work Hours and Safety Standards Act—Overtime Compensation)

I.85 DEAR 970.5222-2 (Overtime Management)

SECTION V - LABOR RELATIONS

I.19 FAR 52.222-1 (Notice to the Government of Labor Disputes)

I.84 DEAR 970.5222-1 (Collective Bargaining Agreements—Management and Operating Contracts)

FAR 31.205-21 (Labor Relations Costs)

SECTION VII - LEAVES

Community Service Leaves

FAR 31.205-(1)(e)(3) (Public Relations and Advertising Costs)

SECTION VIII – TRAINING, EDUCATION AND DEVELOPMENT

FAR 31.205-44 (Training and Education Costs)

SECTION IX - EMPLOYEE PROGRAMS

FAR 31.205-13. (Employee Morale, Health, Welfare, Food Service, and Dormitory Costs and Credits)

SECTION X - COSTS OF RECRUITING PERSONNEL

Recruitment Costs

FAR 31.205-34

Relocation Costs

FAR 31.205-35

SECTION XII – REDUCTIONS IN CONTRACTOR EMPLOYMENT

Severance

FAR 31.205-6 (g) (Compensation for Personal Services (Severance))

ATTACHMENT J.2

APPENDIX B

FY 2020 PERFORMANCE EVALUATION AND MEASUREMENT PLAN

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

INTRODUCTION

This document, the Performance Evaluation and Measurement Plan (PEMP), primarily serves as DOE's Quality Assurance/Surveillance Plan (QASP) for the evaluation of The Regents of the University of California (hereafter referred to as "the Contractor") performance regarding the management and operations of the Lawrence Berkeley National Laboratory (hereafter referred to as "the Laboratory") for the evaluation period from October 1, 2019, through September 30, 2020. The performance evaluation provides a standard by which to determine whether the Contractor is managerially and operationally in control of the Laboratory and is meeting the mission requirement and performance expectations/objectives of the Department as stipulated within this contract.

This document also describes the distribution of the total available performance-based fee and the methodology for determining the amount of fee earned by the Contractor as stipulated within the clauses entitled, "Determining Total Available Performance Fee and Fee Earned," "Conditional Payment of Fee, Profit, or Incentives," and "Total Available Fee: Base Fee Amount and Performance Fee Amount." In partnership with the Contractor and other key customers, the Department of Energy (DOE) Headquarters (HQ) and the Site Office have defined the measurement basis that serves as the Contractor's performance-based evaluation and fee determination.

The Performance Goals (hereafter referred to as Goals), Performance Objectives (hereafter referred to as Objectives) and set of notable outcomes discussed herein were developed in accordance with contract expectations set forth within the contract. The notable outcomes for meeting the Objectives set forth within this plan have been developed in coordination with HQ program offices as appropriate. Except as otherwise provided for within the contract, the evaluation and fee determination will rest solely on the Contractor's performance within the Performance Goals and Objectives set forth within this plan.

The overall performance against each Objective of this performance plan, to include the evaluation of notable outcomes, shall be evaluated jointly by the appropriate HQ office, major customer and/or the Site Office as appropriate. This cooperative review methodology will ensure that the overall evaluation of the Contractor results in a consolidated DOE position taking into account specific notable outcomes as well as all additional information available to the evaluating office. The Site Office shall work closely with each HQ program office or major customer throughout the year in evaluating the Contractor's performance and will provide observations regarding programs and projects as well as other management and operation activities conducted by the Contractor throughout the year.

Section I provides information on how the performance rating (grade) for the Contractor, as well as the performance-based incentives fee earned (if any), will be determined. As applicable, also provides information on the award term eligibility requirements.

Section II provides the detailed information concerning each Goal, its corresponding Objectives, and notable outcomes identified, along with the weightings assigned to each Goal and Objective and a table for calculating the final grade for each Goal.

I. DETERMINING THE CONTRACTOR'S PERFORMANCE RATING, PERFORMANCE-BASED FEE AND AWARD TERM ELIGIBILITY (as applicable)

The FY 2020 Contractor performance grade for each Goal will be determined based on the weighted sum of the individual scores earned for each of the Objectives described within this document for Contractor/Laboratory Leadership and for Management and Operations (M&O). For each Science and Technology (S&T) Goal, an initial weighted sum will be calculated analogously for each evaluating office, and a cost-based weighted sum of these initial sums will determine the Contractor performance grade. Each Goal is composed of two or more weighted Objectives. Additionally, a set of notable outcomes has been identified to highlight key aspects/areas of performance deserving special attention by the Contractor for the upcoming fiscal year. Each notable outcome is linked to one or more Objectives, and failure to meet expectations against any notable outcome will result in a grade less than B+ for that Objective(s). That is, if the contractor fails to meet expectations against a notable outcome tied to an Objective under Goal 1.0, 2.0, or 3.0, the SC program office that assigned the notable outcome shall award a grade less than “B+” for the Objective(s) to which the notable outcome is linked; and if the contractor fails to meet expectations against a notable outcome tied to an Objective under Goal 4.0, 5.0, 6.0, 7.0 or 8.0, SC shall award a grade less than “B+” for the Objective(s) to which the notable outcome is linked. Performance above expectations against a notable outcome will be considered in the context of the Contractor’s entire performance with respect to the relevant Objective. The following section describes SC’s methodology for determining the Contractor’s grades at the Objective level.

Performance Evaluation Methodology:

The purpose of this section is to establish a methodology to develop grades at the Objective level. Each evaluating office shall provide a proposed grade and corresponding numerical score for each Objective (see Figure 1 for SC’s scale). Each evaluation will measure the degree of effectiveness and performance of the Contractor in meeting the corresponding Objectives.

Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F
Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	0.8-1.0	0.7-0

Figure 1. FY 2020 Contractor Letter Grade Scale

For the three S&T Goals (1.0 – 3.0) the Contractor shall be evaluated against the defined levels of performance provided for each Objective under the S&T Goals. The Contractor performance under Goal 4.0 will also be evaluated using the defined levels of performance described for the four Objectives under Goal 4.0. The descriptions for these defined levels of performance are included in Section II.

It is the DOE’s expectation that the Contractor provides for and maintains management and operational (M&O) systems that efficiently and effectively support the current mission(s) of the Laboratory and assure the Laboratory’s ability to deliver against DOE’s future needs. In evaluating the Contractor’s performance DOE shall assess the degree of effectiveness and performance in meeting each of the Objectives provided under each of the Goals. For the four M&O Goals (5.0 – 8.0) DOE will rely on a combination of the information through the Contractor’s own assurance systems, the ability of the Contractor to demonstrate the validity of this information, and DOE’s own independent assessment of the Contractor’s performance across the spectrum of its responsibilities. The latter might include, but is not limited to operational awareness (daily oversight) activities; formal assessments conducted; “For Cause” reviews (if any); and other outside agency reviews (OIG, GAO, DCAA, etc.).

The mission of the Laboratory is to deliver the science and technology needed to support Departmental missions and other sponsors' needs. Operational performance at the Laboratory meets DOE's expectations (defined as the grade of B+) for each Objective if the Contractor is performing at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance that does, or has the potential to, 1) adversely impact the delivery of the current and/or future DOE/Laboratory mission(s), 2) adversely impact the DOE and or the Laboratory's reputation, or 3) fail to provide the competent people, necessary facilities and robust systems necessary to ensure sustainable performance, shall be graded below expectations as defined in Figure I-1, below.

The Department sets our expectations high, and expects performance at that level to optimize the efficient and effective operation of the Laboratory. Thus, the Department does not expect routine Contractor performance above expectations against the M&O Goals (5.0 – 8.0). Performance that might merit grades above B+ would need to reflect a Contractor's significant contributions to the management and operations at the system of Laboratories, or recognition by external, independent entities as exemplary performance.

Definitions for the grading scale for the Goal 5.0 – 8.0 Objectives are provided in Figure I-1, below:

Letter Grade	Numerical Grade	Definition
A+	4.3-4.1	Significantly exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance is notable for its significant contributions to the management and operations across the SC system of laboratories, and/or has been recognized by external, independent entities as exemplary.
A	4.0-3.8	Notably exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). Performance is notable for its contributions to the management and operations across the SC system of laboratories, and/or as been recognized by external, independent entities as exemplary.
A-	3.7-3.5	Exceeds expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s).
B+	3.4-3.1	Meets expectations of performance against all aspects of the Objective in question. The Contractor's systems function at a level that fully supports the Laboratory's current and future science and technology mission(s). No performance has, or has the potential to, adversely impact 1) the delivery of the current and/or future DOE/Laboratory mission(s), 2) the DOE and/or the Laboratory's reputation, or does not 3) provide a sustainable performance platform.
B	3.0 -2.8	Just misses meeting expectations of performance against a few aspects of the Objective in question. In a few minor instances, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission, or provide a sustainable performance platform.
B-	2.7-2.5	Misses meeting expectations of performance against several aspects of the Objective in question. In several areas, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission, or provide a sustainable performance platform.
C+	2.4-2.1	Misses meeting expectations of performance against many aspects of the Objective in question. In several notable areas, the Contractor's systems function at a level that does not fully support the Laboratory's current and future science and technology mission or provide a sustainable performance platform, and/or have affected the reputation of the Laboratory or DOE.

Letter Grade	Numerical Grade	Definition
C	2.0-1.8	Significantly misses meeting expectations of performance against many aspects of the Objective in question. In many notable areas, the Contractor's systems do not support the Laboratory's current and future science and technology mission, nor provide a sustainable performance platform and may affect the reputation of the Laboratory or DOE.
C-	1.7- 1.1	Significantly misses meeting expectations of performance against most aspects of the Objective in question. In many notable areas, the Contractor's systems demonstrably hinder the Laboratory's ability to deliver on current and future science and technology mission, and have harmed the reputation of the Laboratory or DOE.
D	1.0-0.8	Most or all expectations of performance against the Objective in question are missed. Performance failures in this area have affected all parts of the Laboratory; DOE leadership engagement is required to deal with the situation and help the Contractor.
F	0.7-0	All expectations of performance against the Objective in question are missed. Performance failures in this area are not recoverable by the Contractor or DOE.

Figure 1-1. Letter Grade and Numerical Grade Definitions for Objectives under M&O Goals

Calculating Individual Goal Scores and Letter Grades:

Each Objective is assigned the earned numerical score by each evaluating office as stated above. For an evaluating office, the Goal score is then computed by multiplying each Objective numerical score under that Goal by the weight assigned to that Objective by that office, and then adding these values together. For Goals 4.0-8.0, this determines the overall Goal score. For Goals 1.0-3.0, the overall Goal score is calculated by multiplying each evaluating office's Goal score by the office's cost-based weight, and then adding them. For the purpose of determining the eight Goal grades, the unrounded raw overall numerical score for each Goal will be rounded to the nearest tenth of a point using the standard rounding convention discussed below following Figure 2, and then will be compared to Figure 1. A set of tables is provided at the end of each Performance Goal section of this document to assist in the calculation from Objective numerical scores to the Goal grade. No overall rollup grade shall be provided.

The eight Performance Goal grades shall be used to create a report card for the laboratory (see Figure 2, below).

Performance Goal	Grade
1.0 Mission Accomplishment	
2.0 Design, Fabrication, Construction and Operations of Research Facilities	
3.0 Science and Technology Program Management	
4.0 Sound and Competent Leadership and Stewardship of the Laboratory	
5.0 Integrated Safety, Health, and Environmental Protection	
6.0 Business Systems	
7.0 Operating, Maintaining, and Renewing Facility and Infrastructure Portfolio	
8.0 Integrated Safeguards and Security Management and Emergency Management Systems	

Figure 2. Laboratory Report Card

Although rounded to convert to letter grades, the unrounded raw numerical score from each calculation shall be carried through to the next stage of the calculation process. The unrounded raw numerical score for weighted final S&T and weighted final M&O will be rounded to the nearest tenth of a point for purposes of determining fee. A standard rounding convention of x.44 and less rounds down to the nearest tenth (here, x.4), while x.45 and greater rounds up to the nearest tenth (here, x.5).

Determining the Amount of Performance-Based Fee Earned:

SC uses the following process to determine the amount of performance-based fee earned by the contractor. The overall Goal scores for each S&T Performance Goal shall be used to determine an initial numerical score for S&T (see Table A, below), and the overall Goal scores for each M&O Performance Goal shall be used to determine an initial numerical M&O score (see Table B, below).

S&T Performance Goal	Numerical Score	Weight ¹		
1.0 Mission Accomplishment		≥30%		
2.0 Design, Fabrication, Construction and Operation of Research Facilities				
3.0 Science and Technology Program Management		25%		
Initial S&T Score				

Table A. FY 2020 Contractor Evaluation Initial S&T Score Calculation

¹ For Goals 1.0 and 2.0, the weights are based on total fiscal year costs for all evaluating programs distributed between Goals 1.0 and 2.0; however, a minimum weight of 30% for Goal 1.0 is required regardless of cost distribution. For Goal 3.0, the weight is set as a fixed percentage for all laboratories.

M&O Performance Goal	Numerical Score	Weight		
5.0 Integrated Safety, Health, and Environmental Protection		25%		
6.0 Business Systems		25%		
7.0 Operating, Maintaining, and Renewing Facility and Infrastructure Portfolio		30%		
8.0 Integrated Safeguards and Security Management and Emergency Management Systems		20%		
Initial M&O Score				

Table B. FY 2020 Contractor Evaluation Initial M&O Score Calculation

These initial scores will then be adjusted based on the numerical score for Goal 4.0 (see Table C, below).

	Numerical Score	Weight		
Initial S&T Score		0.75		
Goal 4.0		0.25		
Final S&T Score				
Initial M&O Score		0.75		
Goal 4.0		0.25		
Final M&O Score				

Table C. FY2020 Final S&T and M&O Score Calculation

The percentage of the available performance-based fee that may be earned by the Contractor shall be determined based on the final score for S&T (see Table C) and then compared to Figure 3, below. The final score for M&O from Table C shall then be utilized to determine the final fee multiplier (see Figure 3),

which shall be utilized to determine the overall amount of performance-based fee earned for FY 2020 as calculated within Table D.

Overall Final Score for either S&T or M&O from Table C.	Percent S&T Fee Earned	M&O Fee Multiplier
4.3	100%	100%
4.2		
4.1		
4.0	97%	100%
3.9		
3.8		
3.7	94%	100%
3.6		
3.5		
3.4	91%	100%
3.3		
3.2		
3.1		
3.0	88%	95%
2.9		
2.8		
2.7	85%	90%
2.6		
2.5		
2.4	75%	85%
2.3		
2.2		
2.1		
2.0	50%	75%
1.9		
1.8		
1.7	0%	60%
1.6		
1.5		
1.4		
1.3		
1.2		
1.1		
1.0 to 0.8	0%	0%
0.7 to 0.0	0%	0%

Figure 3. Performance-Based Fee Earned Scale

Overall Fee Determination

Percent S&T Fee Earned	
M&O Fee Multiplier	x
Overall Earned Performance-Based Fee	

Table D. Final Percentage of Performance-Based Fee Earned Determination

The Federal Acquisition Regulations (FAR) requirements for using and administering cost-plus-award-fee contracts were modified to provide for a five-level adjectival grading system with associated levels of available fee.¹ SC has addressed the FAR Part 16 language by mapping its standard numerical scores and associated fee determinations to the FAR Adjectival Rating System, as noted in Figure 4.

Range of Overall Final Score for S&T from Figure 3.	FAR Adjectival Rating	Maximum Performance-Fee Pool Available to be Earned
3.1 to 4.3	Excellent	100%
2.5 to 3.0	Very Good	88%
2.1 to 2.4	Good	75%
1.8 to 2.0	Satisfactory	50%
0.0 to 1.7	Unsatisfactory	0%

Figure 4. Crosswalk of SC Numerical Scores and the FAR Part 16 Adjectival Rating System

Adjustment to the Letter Grade and/or Performance-Based Fee Determination:

The lack of performance objectives and notable outcomes in this plan does not diminish the need to comply with minimum contractual requirements. Although the performance-based Goals and their corresponding Objectives shall be the primary means utilized in determining the Contractor's performance grade and/or amount of performance-based fee earned, the Contracting Officer may unilaterally adjust the rating and/or reduce the otherwise earned fee based on the Contractor's performance against all contract requirements as set forth in the Prime Contract. While reductions may be based on performance against any contract requirement, specific note should be made to contract clauses which address reduction of fee including, Standards of Contractor Performance Evaluation, DEAR 970.5215-1 – Total Available Fee: Base Fee Amount and Performance Fee Amount, and Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts. Data to support rating and/or fee adjustments may be derived from other

¹ See Policy Flash 2010-05, *Federal Acquisition Circular 2005-37*.

sources to include, but not limited to, operational awareness (daily oversight) activities; “For Cause” reviews (if any); and other outside agency reviews (OIG, GAO, DCAA, etc.), as needed.

The adjustment of a grade and/or reduction of otherwise earned fee will be determined by the severity of the performance failure and consideration of mitigating factors. DEAR 970.5215-3 Conditional Payment of Fee, Profit, and Other Incentives – Facility Management Contracts is the mechanism used for reduction of fee as it relates to performance failures related to safeguarding of classified information and to adequate protection of environment, health and safety. Its guidance can also serve as an example for reduction of fee in other areas.

The final Contractor performance-based grades for each Goal and fee earned determination will be contained within a year-end report, documenting the results from the DOE review. The report will identify areas where performance improvement is necessary and, if required, provide the basis for any performance-based rating and/or fee adjustments made from the otherwise earned rating/fee based on Performance Goal achievements.

Determining Award Term Eligibility:

Pursuant to the clause entitled “Award Term Incentive” the Contractor may also earn additional term by exceeding performance expectations. The Contractor is eligible for award term in accordance with the clause when performance for the S&T and M&O components results in scores within the shaded areas of Table C, which would be scores of 3.5 or higher for S&T and 3.1 or higher for the M&O component. Notwithstanding the overall scores earned, if the Contractor scores less than a 3.1 in any S&T goal or less than a 2.5 in any M&O goal the Contractor will not be eligible for award term.

II. PERFORMANCE GOALS, OBJECTIVES & NOTABLE OUTCOMES

Background

The current performance-based management approach to oversight within DOE has established a new culture within the Department with emphasis on the customer-supplier partnership between DOE and the laboratory contractors. It has also placed a greater focus on mission performance, best business practices, cost management, and improved contractor accountability. Under the performance-based management system the DOE provides clear direction to the laboratories and develops annual performance plans (such as this one) to assess the contractors’ performance in meeting that direction in accordance with contract requirements. The DOE policy for implementing performance-based management includes the following guiding principles:

- Performance objectives are established in partnership with affected organizations and are directly aligned to the DOE strategic goals;
- Resource decisions and budget requests are tied to results; and
- Results are used for management information, establishing accountability, and driving long-term improvements.

The performance-based approach focuses the evaluation of the Contractor’s performance against these Performance Goals. Progress against these Goals is measured through the use of a set of Objectives. The success of each Objective will be measured based on demonstrated performance by the laboratory, and on a set of notable outcomes that focus laboratory leadership on the specific items that are the most important initiatives and highest risk issues the laboratory must address during the fiscal year. These notable outcomes should be objective, measurable, and results-oriented to allow for a definitive determination of whether or not the specific outcome was achieved at the end of the year.

Performance Goals, Objectives, and Notable Outcomes

The following sections describe the Performance Goals, their supporting Objectives, and associated notable outcomes for FY 2020.

GOAL 1.0 Provide for Efficient and Effective Mission Accomplishment

The science and technology programs at the Laboratory produce high-quality, original, and creative results that advance science and technology; demonstrate sustained scientific progress and impact; receive appropriate external recognition of accomplishments; and contribute to overall research and development goals of the Department and its customers.

The weight of this Goal is TBD%.

The Provide for Efficient and Effective Mission Accomplishment Goal measures the overall effectiveness and performance of the Contractor in delivering science and technology results which contribute to and enhance the DOE's (or other relevant supporting agencies') mission of protecting our national and economic security by providing world-class scientific research capacity and advancing scientific knowledge by supporting world-class, peer-reviewed scientific results, which are recognized by others.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers as identified below. The Goal score from each HQ Program Office and/or customer is computed by multiplying each Objective numerical score by the associated weight assigned by that Office/customer, and summing them (see Table 1.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)
- Office of Workforce Development for Teachers and Scientists (WDTS)
- Office of Defense Nuclear Nonproliferation (DNN)
- Office of Electricity (OE)
- Office of Energy Efficiency and Renewable Energy (EERE)
- Office of Fossil Energy (FE)
- National Institutes of Health (NIH)
- Office of Cybersecurity, Energy Security, and Emergency Response (CESER)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 1.2, below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 1.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

1.1 Provide Science and Technology Results with Meaningful Impact on the Field

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- Performance of the Laboratory with respect to proposed research plans;
- Performance of the Laboratory with respect to community impact and peer review; and
- Performance of the Laboratory with respect to impact to DOE (or other customer) mission needs.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Impact of publications on the field, as measured primarily by peer review;
- Impact of S&T results on the field, as measured primarily by peer review;
- Impact of S&T results outside the field indicating broader interest;
- Impact of S&T results on DOE or other customer mission(s);
- Successful stewardship of mission-relevant research areas;
- Delivery on proposed S&T plans;
- Significant awards (Nobel Prizes, R&D 100, FLC, etc.);
- Invited talks, citations, making high-quality data available to the scientific community; and
- Development of tools and techniques that become standards or widely-used in the scientific community.

Letter Grade	Definition
A+	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>significant research areas</i> for which the Laboratory <i>has exceeded the expectations</i> of the proposed research plans <i>in significant ways through creative, new, or unconventional methods that allow greater scientific reach than expected</i>. • S&T conducted at the Laboratory <i>has resolved one of the most critical questions in the field, or has changed the way the research community thinks about a particular field through paradigm shifting discoveries that would be considered the most influential discovery of the decade for that field</i>. • S&T conducted at the Laboratory <i>provided major advances that significantly accelerate DOE or other customer mission(s)</i>.
A	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>important examples</i> where the Laboratory <i>exceeded the expectations</i> of the proposed research plans <i>in significant ways through creative, new, or unconventional methods that allow greater scientific reach than expected</i>. • <i>All areas</i> of S&T conducted at the Laboratory are of <i>exceptional or outstanding</i> merit and quality. • S&T conducted at the Laboratory <i>has significant positive impact</i> to DOE or other customer missions.
A-	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • There are <i>important examples</i> where the Laboratory <i>exceeded the expectations</i> of the proposed research plans. • <i>Significant areas</i> of S&T conducted at the Laboratory are of <i>exceptional or outstanding</i> merit and quality. • S&T conducted at the Laboratory <i>significantly impact</i> DOE or other customer missions.

Letter Grade	Definition
B+	<p>The Laboratory has achieved each of the following objectives:</p> <ul style="list-style-type: none"> • The Laboratory has successfully executed proposed research plans. • S&T conducted at the Laboratory are of <i>high</i> scientific merit and quality. • S&T conducted at the Laboratory <i>advance</i> DOE or other customer missions.
B	<ul style="list-style-type: none"> • The Laboratory has successfully executed proposed research plans. • S&T conducted at the Laboratory <i>advance</i> DOE or other customer missions. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • S&T conducted at the Laboratory are <i>not uniformly of high</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> OR <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
B-	<p>The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • The Laboratory has <i>failed to successfully execute</i> proposed research plans <i>but contingencies were in place such that no funding was or will be terminated.</i> OR S&T conducted at the Laboratory <i>does little to advance</i> DOE or other customer missions. • <i>Significant areas of</i> S&T conducted at the Laboratory are <i>not of high</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> OR <i>the Laboratory do not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
C	<p>The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • <i>In several significant aspects, the Laboratory failed to deliver on proposed research plans using available resources such that some funding was or will be terminated</i> OR S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions. • <i>Significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i>
D	<p>The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • <i>Multiple program elements at the Laboratory failed to deliver on proposed research plans using available resources such that significant funding was or will be terminated.</i> • <i>Multiple significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities.</i> • S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions.
F	<p>The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> • <i>Multiple program elements at the Laboratory failed to deliver on proposed research plans using available resources resulting in total termination of funding.</i> • <i>Multiple significant areas of</i> S&T conducted at the Laboratory are <i>of poor</i> merit and quality OR <i>some areas of research, previously supported, have become uncompetitive</i> AND <i>the Laboratory does not produce sufficiently competitive proposals to receive program support at a level commensurate with its unique capabilities</i> OR <i>the Laboratory has been found to have engaged in gross scientific incompetence and/or scientific fraud.</i> • S&T conducted at the Laboratory <i>failed to contribute to</i> DOE or other customer missions.

1.2 Provide Quality Leadership in Science and Technology that Advances Community Goals and DOE Mission Goals.

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- Innovativeness / Novelty of research ideas put forward by the Laboratory;
- Extent to which Laboratory staff members take on substantive or formal leadership roles in their community;
- Extent to which Laboratory staff members take on formal leadership roles in DOE, SC and/or other customer activities; and
- Extent to which Laboratory staff members contribute thoughtful and thorough peer reviews and other research assessments as requested by DOE, SC or other supporting customers.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.:

- Willingness to pursue novel approaches and/or demonstration of innovative solutions to problems;
- Willingness to take on high-risk/high payoff/long-term research problems, evidence that previous risky decisions by the PI/research staff have proved to be correct and are paying off;
- The uniqueness and challenge of science pursued, recognition for doing the best work in the field;
- Extent and quality of collaborative efforts;
- Staff members visible in leadership positions in the scientific community;
- Involvement in professional organizations, National Academies panels and workshops;
- Effectiveness in driving the direction and setting the priorities of the community in a research field; and
- Success in competition for resources.

Letter Grade	Definition
A+	<p>In addition to satisfying the conditions for B+, the following conditions hold for ALL Laboratory staff:</p> <ul style="list-style-type: none"> • Laboratory staff members have <i>leadership positions</i> in professional organizations AND <i>in National Academy or equivalent panels to discuss and determine further research directions</i>; • Laboratory staff members have <i>leadership positions</i> in DOE (or in other supporting agencies) sponsored workshops and strategic planning activities, for example, Laboratory staff members chair or co-chair DOE-sponsored or other supporting agency-sponsored workshops and strategic planning activities. • The Laboratory program consistently produces and submits competitive proposals that challenge convention and open <i>significant new fields</i> for research that are well aligned with DOE and/or other supporting agencies mission needs and <i>the Laboratory has a strong recognized role in setting priorities and driving the direction in key research areas and are internationally recognized leaders in the field.</i> • Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.
A	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> • Laboratory staff members have <i>leadership positions</i> in professional organizations AND <i>staff has contributing role in National Academy or equivalent panels to discuss further research directions</i>; • Laboratory staff members have <i>leadership positions</i> in DOE and/or in other supporting agencies sponsored workshops and strategic planning activities. • The Laboratory program consistently produces and submits competitive proposals that challenge convention and open <i>significant new fields</i> for research that are well aligned with DOE or other supporting agency mission needs and <i>the Laboratory has a strong recognized role in setting priorities and driving the direction in key research areas.</i> • Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.

Letter Grade	Definition
A-	<p>In addition to satisfying the conditions for B+</p> <ul style="list-style-type: none"> Laboratory staff members have <i>leadership positions</i> in professional organizations OR <i>staff has contributing role in National Academy or equivalent panels to discuss further research directions</i>; Laboratory staff members have <i>leadership positions</i> in DOE and/or other supporting agency-sponsored workshops and strategic planning activities. The Laboratory program consistently submits competitive proposals that challenge convention and open <i>significant</i> new avenues for research that are well aligned with DOE or other supporting agencies mission needs. Laboratory staff hold <i>leadership positions</i> in multi-institutional research collaborations.
B+	<p>The Laboratory has achieved each of the following objectives:</p> <ul style="list-style-type: none"> Laboratory staff members are <i>active participants</i> in professional organizations, committees, and activities, and take on leadership responsibilities commensurate with experience and expertise. Laboratory staff members are <i>active participants</i> in DOE and/or other supporting agencies-sponsored workshops and strategic planning activities. Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. The Laboratory program consistently provides competitive proposals that challenge convention and open new avenues for research that are well aligned with DOE or other supporting agencies mission needs. Laboratory staff are <i>active participants</i> in multi-institutional research collaborations
B	<ul style="list-style-type: none"> Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE and/or other supporting agencies. The Laboratory program consistently provides competitive proposals that challenge convention and open new avenues for research that are well aligned with DOE and/or other supporting agencies mission needs. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> Although <i>regular participants</i> in professional organizations, committees, and activities, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>regular participants</i> in DOE and/or other supported agencies sponsored workshops and strategic planning activities, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>active members</i> of multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>
B-	<ul style="list-style-type: none"> Laboratory staff members contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. <p>BUT the Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons:</p> <ul style="list-style-type: none"> The Laboratory program submits competitive proposals <i>but these either lack innovation or are not well aligned with DOE or other supporting agencies mission needs.</i> Laboratory staff are <i>infrequent participants</i> in professional organizations, committees, and activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Laboratory staff are <i>infrequent participants</i> in DOE or other supported agencies sponsored workshops and strategic planning activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although <i>active members</i> of multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>

Letter Grade	Definition
C	The Laboratory fails to meet the conditions for B+ for <i>at least one</i> of the following reasons: <ul style="list-style-type: none"> Laboratory staff members <i>do not reliably</i> contribute thoughtful and thorough peer review in a timely manner, when requested by DOE or other supporting agencies. <i>Some areas of research, previously supported, are no longer competitive.</i> Laboratory staff members are <i>infrequent participants</i> in professional organizations, committees, and activities, <i>AND the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Laboratory staff members are <i>infrequent participants</i> in DOE or other supported agencies sponsored workshops and strategic planning activities, and <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i> Although Laboratory staff members are <i>active members of</i> multi-institutional research collaborations, <i>the extent to which staff take on leadership roles falls short of what would be expected, given the level of experience and expertise of the staff.</i>
D	The Laboratory fails to meet the conditions for B+ because <i>the Laboratory staff are working on problems that are no longer at the forefront of science and are considered mundane.</i>
F	Review has found the Laboratory staff to be <i>guilty of gross scientific incompetence and/or scientific fraud.</i>

Notable Outcomes

- **BER:** Provide a report on accomplishments from the first operation year and future plans for the National Microbiome Data Collaborative. (Objective 1.1)
- **BER:** Provide a report on the scientific accomplishments from the second year of operations at the Joint BioEnergy Institute since the recent re-competition of the Bioenergy Research Centers. (Objective 1.1)
- **BES:** Deliver impactful science from the “Center for Novel Pathways to Quantum Coherence in Materials” Energy Frontier Research Center, as measured by the FY 2020 mid-term review and annual report, research publications and highlights, and participation in periodic conference calls. (Objective 1.1)
- **BES:** Deliver impactful science to advance the integrated research objectives for the Joint Center for Artificial Photosynthesis—as measured by the FY 2020 Progress Reports. (Objective 1.1)
- **BES:** Deliver impactful science to advance the integrated research objectives for the Joint Center for Energy Storage Research—as measured by the FY 2020 annual report, journal publications, data-related metrics, and the annual Review. (Objective 1.1)
- **BES:** Deliver impactful science to advance QIS research that emphasizes the unique role of BES in the LBNL program in “High-Coherence Multilayer Superconducting Structures for Large Scale Qubit Integration and Photonic Transduction” as evidenced by the FY 2020 annual report and the associated list of journal publications. (Objective 1.1)
- **HEP:** With the recent or upcoming transition of several programs in the Physics Division, it is timely for the lab to articulate a vision for the future of LBNL HEP. This plan should build on the

multi-program capabilities of the Laboratory as well as the particular expertise and leadership of lab staff. The draft plan should be delivered to the HEP office by March 2020. (Objective 1.1)

Program Office¹	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall ASCR Total				
Office of Basic Energy Sciences				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall BES Total				
Office of Biological and Environmental Research				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall BER Total				
Office of Fusion Energy Sciences				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall FES Total				
Office of High Energy Physics				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall HEP Total				
Office of Nuclear Physics				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall NP Total				
Office of Workforce Development for Teachers and Scientists				
1.1 Impact			80%	
1.2 Leadership			20%	
Overall WDTS Total				
Office of Cybersecurity, Energy Security, and Emergency Response				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall CESER Total				
Office of Electricity				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall OE Total				
Office of Energy Efficiency and Renewable Energy				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall EERE Total				
Office of Fossil Energy				

¹ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

1.1 Impact			50%	
1.2 Leadership			50%	
Overall FE Total				
Office of Defense Nuclear Nonproliferation				
1.1 Impact			60%	
1.2 Leadership			40%	
Overall DNN Total				
National Institutes of Health				
1.1 Impact			50%	
1.2 Leadership			50%	
Overall NIH Total				

Table 1.1 – Program Performance Goal 1.0 Score Development

Program Office ²	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Office of Workforce Development for Teachers and Scientists				
Office of Cybersecurity, Energy Security, and Emergency Response				
Office of Electricity				
Office of Energy Efficiency and Renewable Energy				
Office of Defense Nuclear Nonproliferation				
Office of Fossil Energy				
National Institutes of Health				
Performance Goal 1.0 Total				

Table 1.2 – Overall Performance Goal 1.0 Score Development²

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 1.3 – Goal 1.0 Final Letter Grade

² The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

GOAL 2.0 Provide for Efficient and Effective Design, Fabrication, Construction and Operations of Research Facilities

The Laboratory provides effective and efficient strategic planning; fabrication, construction and/or operations of Laboratory research facilities; and are responsive to the user community.

The weight of this Goal is TBD%.

The Provide for Efficient and Effective Design, Fabrication, Construction and Operations of Research Facilities Goal shall measure the overall effectiveness and performance of the Contractor in planning for and delivering leading-edge specialty research and/or user facilities to ensure that the required capabilities are present to meet today's and tomorrow's complex challenges. It also measures the Contractor's innovative operational and programmatic means for implementation of systems that ensures the availability, reliability, and efficiency of these facilities; and the appropriate balance between R&D and user support.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Office as identified below. The Goal score from each Program Office is computed by multiplying each Objective numerical score by the associated weight assigned by that Office, and summing them (see Table 2.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 2.2 below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 2.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by DOE HQ Office of Science's (SC) Program Offices for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

2.1 Provide Effective Facility Design(s) as Required to Support Laboratory Programs (i.e., activities leading up to CD-2)

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's delivery of accurate and timely information required to carry out the critical decision and budget formulation process;

- The Laboratory’s ability to meet the intent of DOE Order 413.3, Program and Project Management for the Acquisition of Capital Assets;
- The extent to which the Laboratory appropriately assesses risks and contingency needs; and
- The extent to which the Laboratory is effective in its unique management role and partnership with HQ.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- The quality of the scientific justification for proposed facilities resulting from preconceptual R&D;
- The technical quality of conceptual and preliminary designs and the credibility of the associated cost estimates;
- The credibility of plans for the full life cycle of proposed facilities including financing options;
- The leveraging of existing facilities and capabilities of the DOE Laboratory complex in plans for proposed facilities; and
- The novelty and potential impact of new technologies embodied in proposed facilities.

Letter Grade	Definition
A+	In addition to satisfying all conditions for B+; the Laboratory <i>exceeds expectations</i> in <i>all</i> of these categories: <ul style="list-style-type: none"> • The Laboratory is recognized by the research community as the leader for making the science case for the acquisition; • The Laboratory takes the initiative to demonstrate and thoroughly document the potential for transformational scientific advancement. • Approaches proposed by the Laboratory are widely regarded as innovative, novel, comprehensive, and potentially cost-effective. • Reviews repeatedly confirm strong potential for scientific discovery in areas that support the Department’s mission, and potential to change a discipline or research area’s direction. • The Laboratory identifies, analyzes and champions novel approaches for acquiring the new capability, including leveraging or extending the capability of existing facilities and financing and these efforts result in significant cost estimate and/or risk reductions without loss or, or while enhancing capability.
A	In addition to satisfying all conditions for B+, <i>all</i> of the following conditions are also met: <ul style="list-style-type: none"> • The Laboratory is recognized by the research community as a leader for making the science case for the acquisition; • The Laboratory takes the initiative to demonstrate the potential for revolutionary scientific advancement working in partnership with HQ • The Laboratory identifies, analyzes, and champions, to HQ and Site office, novel approaches for acquiring the new capability, including leveraging or extending the capability of existing facilities and financing.
A-	In addition to satisfying all conditions for B+, <i>all</i> of the following conditions are also met: <ul style="list-style-type: none"> • The approaches proposed by the Laboratory are widely regarded as innovative, novel, comprehensive, and potentially cost-effective • Reviews repeatedly confirm potential for scientific discovery in areas that support the Department’s mission, and potential to change a discipline or research area’s direction.

Letter Grade	Definition
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • The Laboratory displays leadership and commitment in the development of quality analyses, preliminary designs, and related documentation to support the approval of the mission need (CD-0), the alternative selection and cost range (CD-1) and the performance baseline (CD-2). • Documentation requested by the programs is provided in a timely and thorough manner. • The Laboratory keeps DOE apprised of the status, near-term plans and the resolution of problems on a regular basis; anticipates emerging issues that could impact plans and takes the initiative to inform DOE of possible consequences. • The Laboratory solves problems and addresses issues to avoid adverse impacts to the project.
B	The Laboratory fails to meet expectations in one of the areas listed under B+.
B-	The Laboratory fails to meet expectations in several of the areas listed under B+
C	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the required analyses and documentation developed by the Laboratory are EITHER not innovative, OR reflect a lack of commitment and leadership.
D	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the Laboratory fails to provide a compelling justification for the acquisition.
F	The Laboratory fails to meet the expectations in several of the areas listed under B+ AND the approaches proposed by the Laboratory are based on fraudulent assumptions; the science case is weak to non-existent, and the business case is seriously flawed.

2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components (execution phase, post CD-2 to CD-4)

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's adherence to DOE Order 413.3 Project Management for the Acquisition of Capital Assets;
- Successful fabrication of facility components by the Laboratory;
- The Laboratory's effectiveness in meeting construction schedule and budget;
- The quality of key Laboratory staff overseeing the project(s); and
- The extent to which the Laboratory maintains open, effective, and timely communication with HQ regarding issues and risks.

Letter Grade	Definition
A+	In addition to satisfying all conditions for A, <ul style="list-style-type: none"> • There is high confidence throughout the execution phase that the project will be completed <i>significantly</i> under budget and/or ahead of schedule while meeting or exceeding all performance baselines;
A	In addition to satisfying all conditions for B+, <ul style="list-style-type: none"> • The Laboratory has identified and implemented practices that would allow the project scope to be <i>significantly expanded</i> if such were desirable, without impact on baseline cost or schedule; • The Laboratory <i>always</i> provides <i>exemplary</i> project status reports on time to DOE and takes the initiative to communicate emerging problems or issues. • Reviews identify environment, safety and health practices to be <i>exemplary</i>. • There is high confidence throughout the execution phase that the project will meet its cost/schedule performance baseline;

Letter Grade	Definition
A-	In addition to satisfying all conditions for B+, <ul style="list-style-type: none"> The Laboratory has identified practices that would allow for the project scope to be expanded if such were desirable, without impact on baseline cost or schedule; Problems are identified and corrected by the Laboratory promptly, with no impact on scope, cost or schedule The Laboratory provides <i>particularly useful</i> project status reports on time to DOE and regularly takes the initiative to communicate emerging problems or issues. Reviews identify environment, safety and health practices to <i>exceed expectations</i>. There is high confidence throughout the execution phase that the project will meet its cost/schedule performance baseline;
B+	The Laboratory has achieved each of the following objectives <ul style="list-style-type: none"> The project meets CD-2 performance measures; The Laboratory provides sustained leadership and commitment to environment, safety and health; Reviews regularly recognize the Laboratory for being proactive in the management of the execution phase of the project; To a large extent, problems are identified and corrected by the Laboratory with little, or no impact on scope, cost or schedule; DOE is kept informed of project status on a regular basis; reviews regularly indicate project is expected to meet its cost/schedule performance baseline.
B	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT <ul style="list-style-type: none"> The project fails to meet expectations in <i>one</i> of the remaining areas listed under B+.
B-	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT <ul style="list-style-type: none"> The project fails to meet expectations in <i>several</i> of the areas listed under B+
C	The Laboratory provides sustained leadership and commitment to environment, safety and health BUT The project fails to meet expectations in <i>several</i> of the areas listed under B+ AND <ul style="list-style-type: none"> Reviews indicate project remains at risk of breaching its cost/schedule performance baseline; Reports to DOE can vary in degree of completeness
D	The project fails to meet conditions for B+ in at least one of the following areas: <ul style="list-style-type: none"> Reviews indicate project is likely to breach its cost/schedule performance baseline; Laboratory commitment to environment, safety and health issues is inadequate; Reports to DOE are largely incomplete; Laboratory commitment to the project has subsided.
F	The project fails to meet conditions for B+ in at least one of the following areas: <ul style="list-style-type: none"> Laboratory falsifies data during project execution phase; Shows disdain for executing the project within minimal standards for environment, safety or health, Fails to keep DOE informed of project status; Recent reviews indicate that the project is expected to breach its cost/schedule performance baseline.

2.3 Provide Efficient and Effective Operation of Facilities

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The availability, reliability, performance, and efficiency of Laboratory facility(ies);
- The degree to which the facility is optimally arranged to support the user community;
- The extent to which Laboratory R&D is conducted to develop/expand the capabilities of the facility(ies);

- The Laboratory's effectiveness in balancing resources between facility R&D and user support; and
- The quality of the process used to allocate facility time to users.

Letter Grade	Definition
A+	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are also met <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in all of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>significantly less</i> than planned and are acknowledged to be 'leadership caliber' by reviews; • Data on environment, safety, and health continues to be exemplary and widely regarded as among the 'best in class' • The Laboratory took extraordinary means to deliver an extraordinary result for the users and the program in the performance/ review period.
A	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are also met <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in most of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>less</i> than planned and are acknowledged to be 'leadership caliber' by reviews; • Data on environment, safety, and health continues to be <i>exemplary</i> and widely regarded as among the 'best in class.'
A-	In addition to satisfying all conditions for B+, <i>one</i> of the following conditions is met: <ul style="list-style-type: none"> • Performance of the facility <i>exceeds</i> expectations as defined before the start of the year in any of these categories: cost of operations, users served, availability, and capability; • The schedule and the costs associated with the ramp-up to steady state operations are <i>less</i> than planned and are acknowledged to be among the best by reviews;
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • Performance of the facility <i>meets</i> expectations as defined before the start of the year in all of these categories: cost of operations, users served, availability, capability (for example, beam delivery, luminosity, peak performance, etc), • The schedule and the costs associated with the ramp-up to steady state operations occur as planned; • Data on environment, safety, and health continues to be very good as compared with other projects in the DOE. • User surveys meet program expectations and reflect that the Laboratory is responsive to user needs.
B	The project fails to meet expectations in <i>one</i> of the areas listed under B+.
B-	The project fails to meet expectations in <i>more than one</i> of the areas listed under B+.
C	Performance of the facility fails to meet expectations in <i>many</i> of the areas listed under B+; for example, <ul style="list-style-type: none"> • The cost of operations is unexpectedly high and availability of the facility is unexpectedly low, the number of users is unexpectedly low, capability is well below expectations. • The facility operates at steady state, on cost and on schedule, but the reliability of performance is somewhat below planned values, or the facility operates at steady state, but the associated schedule and costs exceed planned values. • Commitment to environment, safety, and health is satisfactory.
D	Performance of the facility fails to meet expectations in <i>many</i> of the areas listed under B+; for example, <ul style="list-style-type: none"> • The cost of operations is unexpectedly high and availability of the facility is unexpectedly low; capability is well below expectations. • The facility operates somewhat below steady state, on cost and on schedule, and the reliability of performance is somewhat below planned values, or the facility operates at steady state, but the associated schedule and costs exceed planned values. • Commitment to environment, safety, and health is inadequate.

Letter Grade	Definition
F	<ul style="list-style-type: none"> The facility fails to operate; the facility operates well below steady state and/or the reliability of the performance is well below planned values. Laboratory commitment to environment, safety, and health issues is inadequate.

2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The extent to which the facility is being used to perform influential science;
- The Laboratory's efforts to take full advantage of the facility to generate impactful S&T results;
- The extent to which the facility is strengthened by a resident Laboratory research community that pushes the envelope of what the facility can do and/or are among the scientific leaders of the community;
- The Laboratory's ability to appropriately balance access by internal and external user communities; and
- The extent to which there is a healthy program of outreach to the scientific community.

Letter Grade	Definition
A+	In addition to meeting all measures under A, <ul style="list-style-type: none"> The Laboratory took extraordinary means to deliver an extraordinary result for a new user community.
A	In addition to satisfying all conditions for B+; <i>all</i> of the following conditions are met <ul style="list-style-type: none"> An <i>aggressive</i> outreach programs is in place and has been documented as attracting new communities to the facility; Reviews consistently find that the facility capability or scope of research potential <i>significantly</i> exceeds expectations for example, due to newly discovered capabilities or exposure to new research communities; OR Reviews find that multiple disciplines are using the facility in new and novel ways that the facility is being used to pursue influential science.
A-	In addition to satisfying all conditions for B+, all of the following conditions are met <ul style="list-style-type: none"> A <i>strong</i> outreach program is in place; Reviews find that the facility capability or scope of research potential exceeds expectations for example, due to newly discovered capabilities or exposure to new research communities; OR Reviews document how multiple disciplines are using the facility in new and novel ways and/or that the facility is being used to pursue important science.
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> Reviews find / validate that the facility is being used for influential science; The scope of facility capabilities is challenged and broadened by resident users; The Laboratory effectively manages user allocations; The Laboratory effectively maintains the facility to required performance standards (for example, runtime, luminosity, etc.) A healthy outreach program is in place.
B	The Laboratory fails to meet expectations in <i>one</i> of the areas listed under B+
B-	The Laboratory fails to meet expectations in <i>several</i> of the areas listed under B+
C	The Laboratory fails to meet expectations in <i>many</i> of the areas listed under B+
D	Reviews find that there are few facility users, few of whom are using the facility in novel ways to produce impactful science; research base is very thin.
F	Laboratory staff does not possess capabilities to operate and/or use the facility adequately.

Notable Outcomes

- **ASCR:** LBNL management should ensure that ESnet 6 is ready for a successful CD-2 review in FY 2020. (Objective 2.1)
- **BES:** Execute the ALS-U project scope in compliance with the technical performance specifications and within the established DOE performance goals for cost and schedule. Performance will be assessed based on the work planned and accomplished during FY 2020, not on the cumulative performance of the project. (Objective 2.1)
- **BES:** Execute the assigned LCLS-II project scope in compliance with the technical performance specifications and within the established DOE performance goals for cost and schedule. Performance will be assessed based on the work planned and accomplished during FY 2020, not on the cumulative performance of the project. (Objective 2.2)
- **FES:** Successfully carry out two LaserNetUS experiments with the present intensities and one High Energy Density experiment with the upgraded laser at an intensity exceeding 1020 W/cm². (Objective 2.3)
- **NP:** Develop a plan to restore the 88 inch cyclotron cooling tower to reliable long-term operations. (Objective 2.3)

Program Office ³	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
2.1 Provide Effective Facility Design(s)			20%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			30%	
2.3 Provide Efficient and Effective Operation of Facilities			40%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			10%	
Overall ASCR Total				
Office of Basic Energy Sciences				
2.1 Provide Effective Facility Design(s)			30%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			5%	
2.3 Provide Efficient and Effective Operation of Facilities			35%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			30%	
Overall BES Total				
Office of Biological and Environmental Research				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			90%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			10%	

³ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

Program Office ³	Letter Grade	Numerical Score	Weight	Overall Score
Overall BER Total				
Office of Fusion Energy Sciences				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			60%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			40%	
Overall FES Total				
Office of High Energy Physics				
2.1 Provide Effective Facility Design(s)			0%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			100%	
2.3 Provide Efficient and Effective Operation of Facilities			0%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			0%	
Overall HEP Total				
Office of Nuclear Physics				
2.1 Provide Effective Facility Design(s)			35%	
2.2 Provide for the Effective and Efficient Construction of Facilities and/or Fabrication of Components			0%	
2.3 Provide Efficient and Effective Operation of Facilities			35%	
2.4 Utilization of Facility(ies) to Provide Impactful S&T Results and Benefits to External User Communities			30%	
Overall NP Total				

Table 2.1 – Program Performance Goal 2.0 Score Development

Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Performance Goal 2.0 Total				

Table 2.2 – Overall Performance Goal 2.0 Score Development⁴

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 2.3 – Goal 2.0 Final Letter Grade

⁴ The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

GOAL 3.0 Provide Effective and Efficient Science and Technology Program Management

The Laboratory provides effective program vision and leadership; strategic planning and development of initiatives; recruits and retains a quality scientific workforce; and provides outstanding research processes, which improve research productivity.

The weight of this Goal is 25%.

The Provide Effective and Efficient Science and Technology Program Management Goal shall measure the Contractor's overall management in executing S&T programs. Dimensions of program management covered include: 1) providing key competencies to support research programs to include key staffing requirements; 2) providing quality research plans that take into account technical risks, identify actions to mitigate risks; and 3) maintaining effective communications with customers to include providing quality responses to customer needs.

Each Objective within this Goal is to be assigned the appropriate numerical score by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers as identified below. The Goal score from each HQ Program Office and/or customer is computed by multiplying each Objective numerical score by the associated weight assigned by that Office/customer, and summing them (see Table 3.1).

- Office of Advanced Scientific Computing Research (ASCR)
- Office of Basic Energy Sciences (BES)
- Office of Biological and Environmental Research (BER)
- Office of Fusion Energy Sciences (FES)
- Office of High Energy Physics (HEP)
- Office of Nuclear Physics (NP)
- Office of Workforce Development for Teachers and Scientists (WDTS)
- Office of Cybersecurity, Energy Security, and Emergency Response (CESER)
- Office of Electricity (OE)
- Office of Energy Efficiency and Renewable Energy (EERE)
- Office of Defense Nuclear Nonproliferation (DNN)
- Office of Fossil Energy (FE)
- National Institutes of Health (NIH)

The overall Performance Goal score and grade will be determined by multiplying the Goal score assigned by each of the offices identified above by the cost-based weightings identified for each and then summing them (see Table 3.2 below). The cost-based weights to be utilized for determining the overall score will be determined following the end of the performance period and will be based on actual cost for FY 2020. The overall score earned is then compared to Table 3.3 to determine the overall letter grade for this Goal. The Contractor's success in meeting each Objective shall be determined based on the Contractor's performance as viewed by the Office of Science Program Offices, other cognizant HQ Program Offices, and other customers for which the Laboratory conducts work. Should one or more of the HQ Program Offices choose not to provide an evaluation for this Goal and its corresponding Objectives, the weighting for the remaining HQ Program Offices shall be recalculated based on their percentage of cost for FY 2020 as compared to the total cost for those remaining HQ Program Offices.

Objectives

3.1 Provide Effective and Efficient Strategic Planning and Stewardship of Scientific Capabilities and Program Vision

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The quality of the Laboratory’s strategic plan;
- The extent to which the Laboratory shows strategic vision for research;
- The extent to which programs of research take advantage of Laboratory capabilities—research programs are more than the sum of their individual project parts;
- The extent to which the Laboratory undertakes research for which it is uniquely qualified;
- The extent to which lab plans are aligned with DOE or other supporting agency mission goals;
- The extent to which the Laboratory programs are balanced between high-/low- risk research for a sustainable program; and
- The extent to which the Laboratory is able to retain and recruit staff for a sustainable program.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Articulation of scientific vision;
- Development and maintenance of core competencies;
- Ability to attract and retain highly qualified staff;
- Efficiency and effectiveness of joint planning (e.g., workshops) with outside community;
- Creativity and robustness of ideas for new facilities and research programs;
- Willingness to take on high-risk/high payoff/long-term research problems, evidence that the Laboratory “guessed right” in that previous risky decisions proved to be correct and are paying off; and
- The depth and breadth of Laboratory research portfolio and its potential for growth.

Letter Grade	Definition
A+	In addition to satisfying the conditions for B+, the execution of the Laboratory’s strategic plan has enabled the Laboratory to achieve each of the following: <ul style="list-style-type: none"> • <i>Most</i> of the Laboratory’s core competencies are recognized as world leading; • The Laboratory has attracted and retained world-leading scientists in <i>most</i> programs; • There is evidence that previous decisions to pursue high-risk/high-payoff research proved to be correct and are paying off; • The Laboratory has succeeded in developing new core competencies of <i>outstanding</i> quality in areas both exploratory, high-risk research and research that is vital to the DOE/SC or other supporting department or agency missions;
A	In addition to satisfying the conditions for B+, the execution of the Laboratory’s strategic plan has enabled the Laboratory to achieve the following: <ul style="list-style-type: none"> • <i>Several</i> of the Laboratory’s core competencies are recognized as world leading; • The Laboratory has attracted and retained world-leading scientists in <i>several</i> programs; • There is evidence that previous decisions to pursue high-risk/high-payoff research proved to be correct and are paying off • The Laboratory has succeeded in developing <i>new</i> core competencies of <i>high</i> quality in areas both exploratory, high-risk research and research that is vital to the DOE/SC/other supporting departments or agency missions.

Letter Grade	Definition
A-	In addition to satisfying the conditions for B+, the execution of the Laboratory's strategic plan has enabled the Laboratory to achieve at least one of the following: <ul style="list-style-type: none"> • At least one of the Laboratory's core competencies is recognized as <i>world-leading</i>; • The Laboratory has attracted and retained <i>world-leading</i> scientists in one or more programs; • The Laboratory has a coherent plan for addressing future workforce challenges.
B+	The execution of the Laboratory's strategic plan has enabled the Laboratory to achieve each of the following objectives: <ul style="list-style-type: none"> • The Laboratory has articulated a coherent and compelling strategic plan that has been developed with input from external research communities and headquarters guidance, which, where appropriate, includes a coherent plan for building smaller research programs into new core competencies; and reallocates resources away from less effective programs. • The Laboratory has demonstrated the ability to attract and retain professional scientific staff in support of its strategic vision. • The portfolio of Laboratory research balances the needs for both high-risk/ high-payoff research and stewardship of mission-critical research. • The Laboratory's research portfolio takes advantage of unique capabilities at the Laboratory. • The Laboratory's research portfolio includes activities for which the Laboratory is uniquely capable.
B	The Laboratory fails to satisfy one of the conditions for B+; for example <ul style="list-style-type: none"> • The Laboratory's strategic plan is only <i>partially</i> coherent and is not entirely well-connected with external communities; • The portfolio of Laboratory research does <i>not</i> appropriately balance high-risk/ high-payoff research and stewardship of mission-critical research; • The Laboratory has developed and maintained <i>some, but not all</i>, of its core competencies. • The plan to attract and retain professional scientific staff is <i>lacking</i> strategic vision.
B-	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, including at least one of the following: <ul style="list-style-type: none"> • Weak programmatic vision insufficiently connected with external communities; • Development and maintenance of only a few core competencies • Little attention to maintaining the correct balance between high-risk and mission-critical research; • Inability to attract and retain talented scientists in some programs.
C	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, including at least one of the following reasons: <ul style="list-style-type: none"> • The Laboratory's strategic plan lacks strategic vision and lacks appropriate coordination with appropriate stakeholders including external research groups. • The Laboratory's strategic plan does not provide for sufficient maintenance of core competencies • Plan to attract and retain professional scientific staff is unlikely to be successful or does not focus on strategic capabilities.
D	The Laboratory fails to satisfy <i>several</i> of the conditions for B+, and specifically <ul style="list-style-type: none"> • The Laboratory has demonstrated little effort in developing a strategic plan. • The Laboratory has done little to develop and maintain core competencies • The Laboratory has had minimal success in attracting and retaining professional scientific staff.
F	The Laboratory has: <ul style="list-style-type: none"> • Made limited or ineffective attempts to develop a strategic plan; • Not demonstrated the ability to develop and maintain core competencies, has failed to propose high-risk/high-reward research and has failed to steward mission-critical areas; • Failed to attract even reasonably competent scientists and technical staff.

3.2 Provide Effective and Efficient Science and Technology Project/Program/Facilities Management

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The Laboratory's management of R&D programs and facilities according to proposed plans;
- The extent to which the Laboratory's management of projects/programs/facilities supports the Laboratory strategic plan;
- Adequacy of the Laboratory's consideration of technical risks;
- The extent to which the Laboratory is successful in identifying/avoiding technical problems;
- Effectiveness in leveraging across multiple areas of research and between research and facility capabilities;
- The extent to which the Laboratory demonstrates a willingness to make tough decisions (i.e., cut programs with sub-critical mass of expertise, divert resources to more promising areas, etc.); and
- The use of LDRD and other Laboratory investments and overhead funds to improve the competitiveness of the Laboratory.

The following is a sampling of factors to be considered in determining the level of performance for the Laboratory against this Objective. The evaluator(s) may consider the following as measured through progress reports, peer reviews, Field Work Proposals (FWPs), Program Office reviews/oversight, etc.

- Laboratory plans that are reviewed by experts outside of lab management and/or include broadly-based input from within the Laboratory.

Letter Grade	Definition
A+	In addition to meeting the all expectations under A, <ul style="list-style-type: none"> • The Laboratory has taken extraordinary measures to deliver an extraordinary result of critical importance to DOE or other relevant supporting agency missions, which could include the delivery of a critical technology or insight in response to a National emergency
A	In addition to satisfying the conditions for B+, <ul style="list-style-type: none"> • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations that exceed program expectations in <i>several</i> programmatic areas. Examples are listed under A-.

Letter Grade	Definition
A-	<p>In addition to satisfying the conditions for B+,</p> <ul style="list-style-type: none"> • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations that exceed program expectations in <i>more than one</i> programmatic area. Examples of performance that exceeds expectations include: • The Laboratory's implementation of project/program/facility plans has led directly to significant cost savings and/or significantly higher productivity than expected; • Project/program/facility plans prove to be robust against changing scientific and fiscal conditions through contingency planning; • The Laboratory has demonstrated creativity and forceful leadership in development and/or proactive management of its project/program/facility plans to reduce or eliminate risk; • The Laboratory's proposals for new initiatives are funded through reallocation of resources from less effective programs. • Research plans and management actions are proactive, not reactive, as evidenced by making hard decisions and taking strong actions; and • Management is prepared for budget fluctuations and changes in DOE or other supporting agency program priorities – multiple contingencies are planned for; and • LDRD investments, overhead funds, and other Laboratory funds are used to strengthen lab plans and fill critical gaps in the Laboratory portfolio enabling it to respond to future DOE or other relevant supporting agency initiatives and/or national emergencies.
B+	<p>The Laboratory has achieved each of the following objectives:</p> <ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • Project/program/facility plans are consistent with known budgets, are based on reasonable assessments of technical risk, are well-aligned with DOE or other relevant supporting agency interests, provide sufficient flexibility to respond to unforeseen directives and opportunities, and effectively leverage other Laboratory resources and expertise. • The Laboratory has implemented the project/program/facility plans and has effective methods of tracking progress. • The Laboratory demonstrates willingness to make tough decisions (i.e., cut programs with sub-critical mass of expertise, divert resources to more promising areas, etc.). • The Laboratory's implementation of project/program/facility plans has led directly to effective R&D programs/facility operations. • LDRD investments and other overhead funds are managed appropriately.
B	<ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • The Laboratory has implemented the project/program/facility plans. <p>BUT the Laboratory fails to meet <i>at least one of</i> the conditions for B+.</p>
B-	<ul style="list-style-type: none"> • Project/program/facility plans exist for all major projects/programs/facilities. • The Laboratory has implemented the project/program/facility plans. <p>BUT the Laboratory fails to meet <i>several of</i> the conditions for B+.</p>
C	<ul style="list-style-type: none"> • Project/program/facility plans exist for most major projects/programs/facilities. <p>BUT the Laboratory has failed to implement the project/program/facility plans AND the Laboratory fails to meet <i>several of</i> the conditions for B+.</p>
D	<ul style="list-style-type: none"> • Project/program/facility plans do not exist for a significant fraction of the Laboratory's major projects/programs/facilities; OR • Significant work at the Laboratory is not in alignment with the project/program/facility plans
F	<p>The Laboratory has failed to conduct project/program/facility planning activities.</p>

3.3 Provide Efficient and Effective Communications and Responsiveness to Headquarters Needs

In assessing the performance of the Laboratory against this Objective, the following assessment elements should be considered:

- The quality, accuracy and timeliness of the Laboratory's response to customer requests for information;
- The extent to which the Laboratory provides point-of-contact resources and maintains effective internal communications hierarchies to facilitate efficient determination of the appropriate point-of-contact for a given issue or program element;
- The effectiveness of the Laboratory's communications and depth of responsiveness under extraordinary or critical circumstances; and
- The effectiveness of Laboratory management in accentuating the importance of communication and responsiveness.

Letter Grade	Definition
A+	In addition to meeting the all expectations under A, <ul style="list-style-type: none"> • The Laboratory's effective communication and extraordinary responsiveness in the face of extreme situations or a national emergency had a materially positive impact on the outcome of the event and/or DOE or other relevant supporting agency's mission objectives
A	In addition to satisfying the conditions for B+, the Laboratory also meets all of the following: <ul style="list-style-type: none"> • Laboratory management has instilled a culture throughout the lab that emphasizes good communication practices; • Communication channels are well-defined and information is effectively conveyed; • Responses to HQ requests for information from all Laboratory representatives are prompt, thorough, correct and succinct; important or critical information is delivered in real-time; • Laboratory representatives <i>always</i> initiate a communication with HQ on emerging Laboratory issues; headquarters is never surprised to learn of emerging Laboratory issues through outside channels.
A-	In addition to satisfying the conditions for B+, <ul style="list-style-type: none"> • Laboratory management has instilled a culture throughout the lab that emphasizes good communication practices; • Responses to requests for information are prompt, thorough, and economical/succinct at all levels of interaction; • Laboratory representatives <i>often</i> initiate communication with HQ on emerging Laboratory issues; and • under critical circumstances, essential information is delivered in real-time
B+	The Laboratory has achieved each of the following objectives: <ul style="list-style-type: none"> • Staff throughout the Laboratory organization engage in good communication practices; • Responses to requests for information are prompt and thorough; • The accuracy and integrity of the information provided is never in doubt; • Up-to-date point-of-contact information is widely available for all programmatic areas; and • Headquarters is always and promptly informed of both positive and negative events at the Laboratory
B	The Laboratory failed to meet the conditions for B+ <i>in a few instances</i>
B-	The Laboratory fails to meet the conditions for B+ for <i>one</i> of the following reasons: <ul style="list-style-type: none"> • Responses to requests for information do not provide the minimum requirements to meet HQ needs; While the integrity of the information provided is never in doubt, its accuracy sometimes is; • Laboratory representatives do not take the initiative to alert HQ to emerging Laboratory issues.

Letter Grade	Definition
C	The Laboratory fails to meet the conditions for B+ for <i>one or more</i> of the following reasons: <ul style="list-style-type: none"> • Responses to requests for information frequently fail to provide the minimum requirements to meet HQ needs • The Laboratory used outside channels or circumvented HQ in conveying critical information; • The integrity and/or accuracy of information provided is sometimes in doubt; • Laboratory management fails to demonstrate that its employees are held accountable for ensuring effective communication and responsiveness; • Laboratory representatives failed to alert HQ to emerging Laboratory issues.
D	The Laboratory fails to meet the conditions for B+ for one of the following reasons: <ul style="list-style-type: none"> • Laboratory staff are generally well-intentioned in communication but consistently ineffective and/or incompetent; • The Laboratory management fails to emphasize the importance of effective communication and responsiveness
F	The Laboratory fails to meet the conditions for B+ for one of the following reasons <ul style="list-style-type: none"> • Laboratory staff are openly hostile and/or non-responsive to requests for information – emails and phone calls are consistently ignored; • Responses to requests for information are consistently incorrect, inaccurate or fraudulent – information is not organized, is incomplete, or is fabricated.

Notable Outcomes

- **ASCR:** Continue to be full members in executing the Department's Exascale Computing Project to include providing experienced staff, facilities engagement, and the intellectual engagement of the Laboratory leadership and particularly in preparing for the CD-2 review in FY 2020. (Objective 3.1)
- **ASCR:** Ensure that all communications related to Exascale, including the project and the Departmental cross-cut program, between LBNL and SC, DOE, vendors, the Administration and Congress are aligned with DOE/ASCR goals, strategies and guidance. (Objective 3.3)
- **BER:** Complete the move of the Systems Biology Knowledgebase and the Joint Genome Institute to the Integrative Genomics Building. (Objective 3.2)
- **BES:** Develop a strategic plan for the chemical sciences, geosciences, and biosciences research portfolio supported by BES-CSGB. The plan should articulate how an integrated portfolio is managed across LBNL organizations and the prioritization of areas for future emphasis, recognizing the evolving portfolio and budget. (Objective 3.1)
- **BES:** Successfully execute the search and selection of the Molecular Foundry Facility Director by September 30, 2020. (Objective 3.2)
- **HEP:** By May 2020, develop a resource management plan for Accelerator Technology and Applied Physics for the next several years, including a diverse S&T workforce, commissioning and M&O of new and ongoing experiments, infrastructure improvements, and a draft science plan that articulates a vision for the future of Advanced Accelerator R&D at LBNL. This plan should build on the multi-program capabilities of the Laboratory as well as the particular expertise and leadership of lab staff, and take advantage of the Laboratory's position in the national AARD program. (Objective 3.2)

Program Office⁵	Letter Grade	Numerical Score	Weight	Overall Score
Office of Advanced Scientific Research				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall ASCR Total				
Office of Basic Energy Sciences				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall BES Total				
Office of Biological and Environmental Research				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			50%	
Overall BER Total				
Office of Fusion Energy Sciences				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			40%	
Overall FES Total				
Office of High Energy Physics				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			45%	
3.3 Communications and Responsiveness			25%	
Overall HEP Total				
Office of Nuclear Physics				
3.1 Effective and Efficient Strategic Planning and Stewardship			30%	
3.2 Project/Program /Facilities Management			40%	
3.3 Communications and Responsiveness			30%	
Overall NP Total				
Office of Workforce Development for Teachers and Scientists				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			50%	
3.3 Communications and Responsiveness			30%	
Overall WDTS Total				
Office of Cybersecurity, Energy Security, and Emergency Response				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			45%	

⁵ A complete listing of the Objectives weightings under the S&T Goals for the SC Programs and other customers is provided within Attachment I to this plan.

Program Office⁵	Letter Grade	Numerical Score	Weight	Overall Score
3.3 Communications and Responsiveness			35%	
Overall CESER Total				
Office of Electricity				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			45%	
3.3 Communications and Responsiveness			35%	
Overall OE Total				
Office of Energy Efficiency and Renewable Energy				
3.1 Effective and Efficient Strategic Planning and Stewardship			20%	
3.2 Project/Program /Facilities Management			30%	
3.3 Communications and Responsiveness			50%	
Overall EERE Total				
Office of Defense Nuclear Nonproliferation				
3.1 Effective and Efficient Strategic Planning and Stewardship			58%	
3.2 Project/Program /Facilities Management			21%	
3.3 Communications and Responsiveness			21%	
Overall DNN Total				
Office of Fossil Energy				
3.1 Effective and Efficient Strategic Planning and Stewardship			34%	
3.2 Project/Program /Facilities Management			33%	
3.3 Communications and Responsiveness			33%	
Overall FE Total				
National Institutes of Health				
3.1 Effective and Efficient Strategic Planning and Stewardship			50%	
3.2 Project/Program /Facilities Management			50%	
3.3 Communications and Responsiveness			0%	
Overall NIH Total				

Table 3.1 – Program Performance Goal 3.0 Score Development

HQ Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Advanced Scientific Research				
Office of Basic Energy Sciences				
Office of Biological and Environmental Research				
Office of Fusion Energy Sciences				
Office of High Energy Physics				
Office of Nuclear Physics				
Office of Workforce Development for Teachers and Scientists				
Office of Defense Nuclear Nonproliferation				
Office of Cybersecurity, Energy Security, and Emergency Response				
Office of Electricity				
Office of Energy Efficiency and Renewable Energy				

HQ Program Office	Letter Grade	Numerical Score	Funding Weight (cost)	Overall Weighted Score
Office of Fossil Energy				
National Institutes of Health				
Performance Goal 3.0 Total				

Table 3.2 – Overall Performance Goal 3.0 Score Development⁶

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 3.3 – Goal 3.0 Final Letter Grade

⁶. The final weights to be utilized for determining weighted scores will be determined following the end of the performance period and will be based on actual cost for FY 2020.

Attachment I

Program Office Goal & Objective Weightings Office of Science

	ASCR	BER	BES	FES	HEP	NP
	Weight	Weight	Weight	Weight	Weight	Weight
Goal 1.0 Mission Accomplishment						
1.1 Impact	50%	60%	50%	50%	50%	50%
1.2 Leadership	50%	40%	50%	50%	50%	50%
Goal 2.0 Design, Fabrication, Construction and Operation of Facilities						
2.1 Design of Facility (the initiation phase and the definition phase, i.e. activities leading up to CD-2)	20%	0%	30%	0%	0%	35%
2.2 Construction of Facility / Fabrication of Components (execution phase, Post CD-2 to CD-4)	30%	0%	5%	0%	100%	0%
2.3 Operation of Facility	40%	90%	35%	60%	0%	35%
2.4 Utilization of Facility to Grow and Support Lab's Research Base and External User Community	10%	10%	30%	40%	0%	30%
Goal 3.0 Program Management						
3.1 Effective and Efficient Strategic Planning and Stewardship	30%	20%	30%	30%	30%	30%
3.2 Project/Program/Facilities Management	40%	30%	40%	30%	45%	40%
3.3 Communications and Responsiveness	30%	50%	30%	40%	25%	30%

Attachment I

Program Office Goal & Objective Weightings All Other Customers⁷

	CESER	EERE	DNN	FE	WDTS	OE	NIH
	Weight	Weight	Weight	Weight	Weight	Weight	Weight
Goal 1.0 Mission Accomplishment							
1.1 Impact	50%	60%	60%	50%	80%	50%	50%
1.2 Leadership	50%	40%	40%	50%	20%	50%	50%
Goal 3.0 Program Management							
3.1 Effective and Efficient Strategic Planning and Stewardship	20%	20%	58%	34%	20%	20%	50%
3.2 Project/Program/Facilities Management	45%	30%	21%	33%	50%	45%	50%
3.3 Communications and Responsiveness	35%	50%	21%	33%	30%	35%	0%

⁷ Objective weightings indicated for non-science customers are reflective of FY 2020 weightings and will be updated as those customers provide their weightings. Final Objective weightings will be incorporated, as appropriate, once they are determined by each HQ Program Office and provided to the Site Office. Should a HQ Program Office fail to provide final Objective weightings before the end of the first quarter FY 2020 the preliminary weightings provided shall become final.

GOAL 4.0 Provide Sound and Competent Leadership and Stewardship of the Laboratory

This Goal evaluates the Contractor’s Leadership capabilities in leading the direction of the overall Laboratory, the responsiveness of the Contractor to issues and opportunities for continuous improvement, and corporate office involvement/commitment to the overall success of the Laboratory.

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in overall Contractor Leadership’s planning for, integration of, responsiveness to and support for the overall success of the Laboratory. This may include, but is not limited to, the quality of Laboratory Vision/Mission strategic planning documentation and progress in realizing the Laboratory vision/mission; the ability to establish and maintain long-term partnerships/relationships with the scientific and local communities as well as private industry that advance, expand, and benefit the ongoing Laboratory mission(s) and/or provide new opportunities/capabilities; implementation of a robust assurance system; Laboratory Leadership’s ability to facilitate and effectively manage external engagements and partnerships; Laboratory and Corporate Office Leadership’s ability to instill responsibility and accountability down and through the entire organization; overall effectiveness of communications with DOE; understanding, management and allocation of the costs of doing business at the Laboratory commensurate with associated risks and benefits; utilization of corporate resources to establish joint appointments or other programs/projects/activities to strengthen the Laboratory; and advancing excellence in stakeholder relations to include good corporate citizenship within the local community.

Objectives:

4.1 Leadership and Stewardship of the Laboratory

By which we mean: The performance of the laboratory’s senior management team as demonstrated by their ability to do such things as:

- Define an exciting yet realistic scientific vision for the future of the laboratory,
- Make progress in realizing the vision for the laboratory,
- Establish and maintain long-term partnerships/relationships that maintain appropriate relations with the scientific and local communities, and
- Develop and leverage appropriate relations with private industry to the benefit of the laboratory and the U.S. taxpayer.

Letter Grade	Definition
A+	The Senior Leadership of the laboratory has made outstanding progress (on an order of magnitude scale) over the previous year in realizing their vision for the laboratory, and has had a demonstrable impact on the Department and the Nation. Strategic plans are of outstanding quality, have been externally recognized and referenced for their excellence, and have an impact on the vision/plans of other national laboratories. The Senior leadership of the laboratory may have been faced very difficult challenges and plotted, successfully, its own course through the difficulty, with minimal hand-holding by the Department. Partners in the scientific and local communities applaud the laboratory in national fora, and the Department is strengthened by this.

Letter Grade	Definition
A	The Senior Leadership of the laboratory has made significant progress over the previous year in realizing their vision for the laboratory, and has through this has had a demonstrable positive impact on the Office of Science and the Department. Strategic plans are of outstanding quality, and recognize and reflect the vision/plans of other national laboratories. Faced with difficult challenges, actions were taken by the Senior leadership of the laboratory to redirect laboratory activities to enhance the long-term future of the laboratory. Partners in the scientific and local communities applaud the laboratory in national fora, and the Department is strengthened by this.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The Senior Leadership of the laboratory has made significant progress over the previous year in realizing their vision for the laboratory. Strategic plans present long range goals that are both exciting and realistic. Decisions and actions taken by the lab leadership align work, facilities, equipment and technical capabilities with the laboratory vision and plan. The Senior leadership of the laboratory faced difficult challenges and successfully plotted its own course through the difficulty, with help from the Department. Partners in the scientific and local communities are supportive of the laboratory.
B	The Senior Leadership of the laboratory has made little progress over the previous year in realizing their vision for the laboratory. Strategic plans present long range goals that are exciting and realistic; however DOE is not fully confident that the laboratory is taking the actions necessary for the goals to be achieved. The Laboratory is not fully engaged with its partners/relationships in the scientific and local communities to maximize the potential benefits these relations have for the laboratory.
C	The Senior Leadership of the laboratory has made no progress over the previous year in realizing their vision for the laboratory or aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are either unexciting or unrealistic. Business plans exist, but they are not linked to the strategic plan and do not inspire DOE's confidence that the strategic goals will be achieved. Partnerships with the scientific and local communities with potential to advance the laboratory exist, but they may not always be consistent with the mission of or vision for the laboratory. Affected communities and stakeholders are mostly supportive of the laboratory and aligned with the management's vision for the laboratory.
D	The Senior Leadership of the laboratory has made no progress or has back-slid over the previous year in realizing their vision for the laboratory or in aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are neither exciting nor realistic. Partnerships that may advance the Laboratory towards strategic goals are inappropriate, unidentified, or unlikely. Affected communities and stakeholders are not adequately engaged with the laboratory and indicate non-alignment with DOE priorities.
F	The Senior Leadership of the laboratory has made no progress or has back-slid over the previous year in realizing their vision for the laboratory or in or aligning work, facilities, equipment and technical capabilities with the laboratory vision and plan. Strategic plans present long range goals that are not aligned with DOE priorities or the mission of the laboratory. Partnerships that may advance the Laboratory towards strategic goals are inappropriate, unidentified, and unlikely, and/or the senior management team does not demonstrate a concerted effort to develop, leverage, and maintain relations with the scientific and local communities to assist the laboratory in achieving a successful future. Affected communities and stakeholders are openly non-supportive of the laboratory and DOE priorities.

4.2 Management and Operation of the Laboratory

By which we mean: The performance of the laboratory's senior management team as demonstrated by their ability to do such things as:

- Implement a robust contractor assurance system,
- Understand the costs of doing business at the laboratory and prioritize the management and allocation of these costs commensurate with their associated risks and benefits,
- Instill a culture of accountability and responsibility down and through the entire organization, and

- Ensure good and timely communication between the laboratory and SC headquarters and the Site Office so that DOE can deal effectively with both internal and external constituencies.

Letter Grade	Definition
A+	The laboratory has a nationally or internationally recognized contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk, and is working to help others internal and external to the Department establish similarly outstanding practices. The laboratory understands the drivers of cost at their lab, and are prioritizing and managing these costs commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that all the national laboratories and the Department as a whole benefits.
A	The laboratory has improved dramatically in the last year in all of the following: building a robust and transparent contractor assurance system that integrates internal and external (corporate) evaluation processes to evaluate risk; demonstrating the use of this system in making decisions that are aligned with the laboratory's vision and strategic plan; understanding the drivers of cost at their lab, and prioritizing and managing these costs consistent with their associated risks and benefits to the laboratory and the SC laboratory system; demonstrating laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization; assuring communication between the laboratory and SC headquarters that is beneficial to both the lab and SC.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory has a robust and transparent contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk. The laboratory can demonstrate use of this system in making decisions that are aligned with the laboratory's vision and strategic plan. The laboratory understands the drivers of cost at their lab, and are prioritizing and managing these costs commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that there are no surprises or embarrassments.
B	The laboratory has a contractor assurance system in place but further improvements are necessary, or the link between the CAS and the laboratory's decision-making processes are not evident. The laboratory understands the drivers of cost at their lab, but they are not prioritizing and managing these costs as well as they should to be commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Laboratory management and processes reflect a sense of accountability and responsibility with is mostly evident down and through the entire organization. Communication between the laboratory and SC headquarters and the Site Office is such that there are no significant surprises or embarrassments.
C	The laboratory lacks a robust and transparent contractor assurance system in place that integrates internal and external (corporate) evaluation processes to evaluate risk. The laboratory cannot demonstrate use of this system in making decisions that are aligned with the laboratory's vision and strategic plan. The laboratory does not fully understand the drivers of cost at their lab, and thus are not prioritizing and managing these costs as well as they should to be commensurate with the associated risks and benefits to the laboratory and the SC laboratory system. Communication between the laboratory and SC headquarters and the Site Office is such that there has been at least one significant surprise or embarrassment.
D	The laboratory lacks a contractor assurance system, doesn't understand the drivers of cost at their lab, and is not prioritizing and managing costs. SC HQ must intercede in management decisions. Poor communication between the laboratory and SC headquarters and the Site Office has resulted in more than one significant surprise or embarrassment.
F	Lack of management by the laboratory's senior management has put the future of the laboratory at risk, or has significantly hurt the reputation of the Office of Science.

4.3 Leadership of External Engagements and Partnerships

By which we mean: the performance of the laboratory leadership team to achieve the following:

- Establish a vision for developing and promoting technology transfer activities at the laboratory that align with the laboratory research portfolio, further DOE missions, and promote national and economic security of the United States;
- Identify potential partners, implement outreach activities, and manage external engagements to promote accomplishment of technology transfer objectives, and to develop a feedback loop with industry that both informs planned and ongoing technology transfer activities; and
- Foster a culture of entrepreneurship at the laboratory that encourages staff at all levels to consider potential technology transfer opportunities within their program work and other laboratory activities.

Letter Grade	Definition
A+	Laboratory leadership has an exemplary technology transfer vision and is a leader across the complex in engaging external partners to identify technology transfer activities that are in strategic alignment with the laboratory research portfolio and in furtherance of the DOE mission. The laboratory is recognized as a preeminent leader in the technology transfer community across the DOE complex, and has assisted other national laboratories to develop strategies for identifying and engaging external partnerships. The laboratory staff are strongly encouraged to seek out and pursue potential technology transfer activities that are clearly connected and/or complementary to their research and development work at the laboratory and the laboratory is able to demonstrate how this outreach informs their ongoing technology transfer efforts.
A	The laboratory has a strong vision for engaging strategic partners and identifying strong connections between the laboratory research portfolio and potential technology transfer activities. The laboratory is one of the leaders in the technology transfer community across the DOE complex. The laboratory staff are encouraged to pursue technology transfer activities that are connected and/or complementary to their research and development work at the laboratory.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory has a vision for engaging external partners, capturing intellectual property, and connecting laboratory research with potential technology transfer activities in furtherance of the DOE mission. Laboratory staff are encouraged to seek out and engage in opportunities for technology transfer activities.
B	The laboratory has some external engagements that support development of a vision for technology transfer activities at the laboratory; however this vision is not fully realized and requires more work to identify potential external partners or challenges in capturing intellectual property.
C	The laboratory lacks a vision and the mechanisms to implement a strategy to promote technology transfer at the laboratory.
D	Laboratory leadership lack a vision and have not supported the mechanisms/resources necessary to develop or implement an external engagement strategy to promote technology transfer activities at the laboratory. Laboratory staff are discouraged from seeking out opportunities to solicit external partner input and are also discouraged from identifying potential activities for technology transfer and from engaging in efforts to protect intellectual property.
F	Lack of vision and resources by the laboratory's senior management has hindered the ability of the laboratory to engage external partners and has hurt the laboratory's ability to identify and plan for technology activities, this failure has significantly hurt the Department's ability to achieve its missions.

4.4 Contractor Value-added

By which we mean: the additional benefits that accrue to the laboratory and the Department of Energy by virtue of having this particular M&O contractor in place. Included here, typically, are things over which the laboratory leadership does not have immediate authority, such as:

- Corporate involvement/contributions to deal with challenges at the laboratory,
- Using corporate resources to establish joint appointments or other programs/projects/activities that strengthen the lab, and
- Providing other contributions to the laboratory that enable the lab to do things that are good for the laboratory and its community and that DOE cannot supply.

Letter Grade	Definition
A+	The laboratory has been transformed as a result of the many, substantial, additional benefits that accrue to the lab as a result of this contractor's operation of the laboratory.
A	Over the past year, the laboratory has become demonstrably stronger, better and more attractive as a place of employment as a result of the many, substantial, additional benefits that accrue to the lab as a result of this contractor's operation of the laboratory.
A-	The laboratory senior management performs better than expected (B+ grade) in these areas.
B+	The laboratory enjoys additional benefits above and beyond those associated with managing the laboratory's activities that accrue as a result of this contractor's operation of the laboratory.
B	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; help by the contractor is needed to strengthen the laboratory.
C	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor seems unable to help the laboratory.
D	The laboratory enjoys few additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor's efforts are inconsistent with the interests of the laboratory and the Department.
F	The laboratory enjoys no additional benefits that accrue as a result of this contractor's operation of the laboratory; the contractor's efforts are counter-productive to the interests of the Department.

Notable Outcomes

- **BASO:** Implement an effective cradle-to-grave lifecycle **chemical management** program that clearly holds LBNL line management accountable. (Objective 4.2)
- **SC:** Develop a plan to address the findings and recommendations from the scheduled peer review of the laboratory's diversity and inclusion efforts, conducted by the SC Office of the Deputy Director for Science Programs. Brief SC on the plan by June 1, 2020. (Objective 4.2)
- **BASO/SC:** The Laboratory must keep senior SC leadership informed of key events (e.g., VIP/protocol visits, news releases, media requests) through timely population of the Science News Dashboard with all the relevant information on such activities and/or through other appropriate mechanisms. (Objective 4.2)
- **BASO/SC:** Demonstrate full implementation of program(s) that protects sensitive government information, technologies, equipment, intellectual property, and assets as reflected in applicable regulations and DOE Orders; e.g., O 142.3A Unclassified Foreign Visits and Assignments, P 485.1 Foreign Engagements with DOE National Laboratories, O 486.1 Foreign Government Talents Recruitment Programs, 550.1 Official Travel, O 481.1E, Strategic Partnership Projects, and O 483.1B, DOE Cooperative Research and Development Agreements. (Objective 4.2)

- **BASO/SC:** The Laboratory and contractor leadership must ensure that all communication with interested stakeholders on DOE/SC program priorities/objectives are aligned with DOE/SC goals, strategies and guidance. (Objective 4.4)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 4.0 – Provide Sound and Competent Leadership and Stewardship of the Laboratory				
4.1 Leadership and Stewardship of the Laboratory			30%	
4.2 Management and Operation of the Laboratory			30%	
4.3 Leadership of External Engagements and Partnerships			10%	
4.4 Contractor Value-Added			30%	
Performance Goal 4.0 Total				

Table 4.1 – Performance Goal 4.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 4.2 – Goal 4.0 Final Letter Grade

GOAL 5.0 Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection

The weight of this Goal is 25%.

This Goal evaluates the Contractor's overall success in deploying, implementing, and improving integrated ES&H systems that efficiently and effectively support the mission(s) of the Laboratory.

- 5.1 Provide an Efficient and Effective Worker Health and Safety Program
- 5.2 Provide Efficient and Effective Environmental Management System

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in protecting workers, the public, and the environment. This may include, but is not limited to, minimizing the occurrence of environment, safety and health (ESH) incidents; effectiveness of the Integrated Safety Management (ISM) system; effectiveness of work planning, feedback, and improvement processes; the strength of the safety culture throughout the Laboratory; the strength of the Nuclear/Facility Safety Programs; the effective development, implementation and maintenance of an efficient and effective Environmental Management system; and the effectiveness of responses to identified hazards and/or incidents.

Notable Outcomes

- **BASO:** Develop and execute plan to implement the **10 CFR 851 Permanent Variance** utilizing CAL OSHA as the worker health and safety standard for the Laboratory. (Objective 5.1)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 5.0 - Sustain Excellence and Enhance Effectiveness of Integrated Safety, Health, and Environmental Protection.				
5.1 Provide an Efficient and Effective Worker Health and Safety Program			75%	
5.2 Provide an Efficient and Effective Environmental Management System			25%	
Performance Goal 5.0 Total				

Table 5.1 – Performance Goal 5.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 5.2 – Goal 5.0 Final Letter Grade

GOAL 6.0 Deliver Efficient, Effective, and Responsive Business Systems and Resources that Enable the Successful Achievement of the Laboratory Mission(s)

The weight of this Goal is 25%.

This Goal evaluates the Contractor's overall success in deploying, implementing, and improving integrated business systems that efficiently and effectively support the mission(s) of the Laboratory.

- 6.1 Provide an Efficient, Effective, and Responsive Financial Management System
- 6.2 Provide an Efficient, Effective, and Responsive Acquisition Management System and Property Management System
- 6.3 Provide an Efficient, Effective, and Responsive Human Resources Management System and Diversity Program
- 6.4 Provide Efficient, Effective, and Responsive Contractor Assurance Systems, including Internal Audit and Quality
- 6.5 Demonstrate Effective Transfer of Knowledge and Technology and the Commercialization of Intellectual Assets

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in the development, deployment and integration of foundational program (e.g., Contractor Assurance, Quality, Financial Management, Acquisition Management, Property Management, and Human Resource Management) systems across the Laboratory. This may include, but is not limited to, minimizing the occurrence of management systems support issues; quality of work products; continual improvement driven by the results of audits, reviews, and other performance information; the integration of system performance metrics and trends; the degree of knowledge and appropriate utilization of established system processes/procedures by Contractor management and staff; benchmarking and performance trending analysis. The DOE evaluator(s) shall consider the Laboratory's performance in making progress toward comprehensive collection and submission to OSTI of peer-reviewed accepted manuscripts for journal articles (and associated metadata) resulting from DOE-funded research as called for in the [DOE Public Access Plan](#)⁹, and cooperation with the Department in meeting the relevant requirements to provide other forms of scientific and technical information to OSTI, per DOE O 241.1B. The DOE evaluator(s) shall also consider the stewardship of the pipeline of innovations and resulting intellectual assets at the Laboratory along with impacts and returns created/generated as a result of technology transfer, work for others and intellectual asset deployment activities.

Notable Outcomes

- **BASO:** Improve the effectiveness of the **Contractor Assurance System (CAS)** so that it identifies and mitigates critical risks to the Laboratory as measured by performance factors including: improved project management, improved chemical management, improved safeguards and security and improved line management accountability. (Objective 6.4)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 6.0 - Deliver Efficient, Effective, and Responsive Business Systems and Resources that Enable the Successful Achievement of the Laboratory Mission(s)				

⁹ <https://www.energy.gov/downloads/doe-public-access-plan>

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
6.1 Provide an Efficient, Effective, and Responsive Financial Management System(s)			25%	
6.2 Provide an Efficient, Effective, and Responsive Acquisition Management System and Property Management System			25%	
6.3 Provide an Efficient, Effective, and Responsive Human Resources Management System and Diversity Program			10%	
6.4 Provide Efficient, Effective, and Responsive Contractor Assurance Systems, including Internal Audit and Quality			20%	
6.5 Demonstrate Effective Transfer of Knowledge and Technology and the Commercialization of Intellectual Assets			20%	
Performance Goal 6.0 Total				

Table 6.1 – Performance Goal 6.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 6.2 – Goal 6.0 Final Letter Grade

GOAL 7.0 Sustain Excellence in Operating, Maintaining, and Renewing the Facility and Infrastructure Portfolio to Meet Laboratory Needs

The weight of this Goal is 30%.

This Goal evaluates the overall effectiveness and performance of the Contractor in planning for, delivering, and operations of Laboratory facilities and equipment needed to ensure required capabilities are present to meet today’s and tomorrow’s mission(s) and complex challenges.

- 7.1 Manage Facilities and Infrastructure in an Efficient and Effective Manner that Optimizes Usage, Minimizes Life Cycle Costs, and Ensures Site Capability to Meet Mission Needs
- 7.2 Provide Planning for and Acquire the Facilities and Infrastructure Required to Support the Continuation and Growth of Laboratory Missions and Programs

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in facility and infrastructure programs. This may include, but is not limited to, the management of real property assets to maintain effective operational safety, worker health, environmental protection and compliance, property preservation, and cost effectiveness; planning and executing strategies to promote the resilience and reliability of laboratory infrastructure; effective facility utilization, maintenance and budget execution; day-to-day management and utilization of space in the active portfolio; maintenance and renewal of building systems, structures and components associated with the Laboratory’s facility and land assets; management of energy use, conservation, and sustainability practices; the integration and alignment of the Laboratory’s comprehensive strategic plan with capabilities; facility planning, forecasting, and acquisition; the delivery of accurate and timely information required to carry out the critical decision and budget formulation process; quality of site and facility planning documents; and Cost and Schedule Performance Index performance for facility and infrastructure projects.

Notable Outcomes

- **BASO/SC:** Develop an integrated set of key requirements and associated milestones to support the comprehensive set of general site-wide and programmatic specific infrastructure projects to support the front end planning and prioritization of the Lab’s capability gaps. (Objective 7.1)
- **BASO:** Implement a subcontract and project management strategy that keeps the Bayview demolition and remediation on a success path to accommodate the construction start of BioEPIC. (Objective 7.2)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 7.0 - Sustain Excellence in Operating, Maintaining, and Renewing the Facility and Infrastructure Portfolio to Meet Laboratory Needs.				
7.1 Manage Facilities and Infrastructure in an Efficient and Effective Manner that Optimizes Usage, Minimizes Life Cycle Costs, and Ensures Site Capability to Meet Mission Needs			30%	

7.2 Provide Planning for and Acquire the Facilities and Infrastructure Required to support the Continuation and Growth of Laboratory Missions and Programs			70%	
Performance Goal 7.0 Total				

Table 7.1 – Performance Goal 7.0 Score Development

Total Score	4.3-4.1	4.0-3.8	3.7-3.5	3.4-3.1	3.0-2.8	2.7-2.5	2.4-2.1	2.0-1.8	1.7-1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 7.2 – Goal 7.0 Final Letter Grade

GOAL 8.0 Sustain and Enhance the Effectiveness of Integrated Safeguards and Security Management (ISSM) and Emergency Management Systems

The weight of this Goal is 20%.

This Goal evaluates the Contractor's overall success in safeguarding and securing Laboratory assets that supports the mission(s) of the Laboratory in an efficient and effective manner and provides an effective emergency management program.

- 8.1 Provide an Efficient and Effective Emergency Management System
- 8.2 Provide an Efficient and Effective Cyber Security System for the Protection of Classified and Unclassified Information
- 8.3 Provide an Efficient and Effective Physical Security Program for the Protection of Special Nuclear Materials, Classified Matter, Classified Information, Sensitive Information, and Property

In measuring the performance of the above Objectives, the DOE evaluator(s) shall consider performance trends and outcomes in the safeguards and security, cyber security and emergency management program systems. This may include, but is not limited to, the commitment of leadership to strong safeguards and security, cyber security and emergency management systems; the integration of these systems into the culture of the Laboratory; the degree of knowledge and appropriate utilization of established system processes/procedures by Contractor management and staff; maintenance and the appropriate utilization of Safeguards, Security, and Cyber risk identification, prevention, and control processes/activities; and the prevention and management controls and prompt reporting and mitigation of events as necessary.

Notable Outcomes

- **BASO/SC:** Ensure the appropriate completion of Plans of Actions and Associated Milestones (POAMs) for Email Multi-Factor Authentication. (Objective 8.2)
- **BASO:** Leverage the IGB Badge Pilot initiative as a means to increase security effectiveness and awareness site-wide by expanding 24/7 badge access to other site facilities in FY 2020. (Objective 8.3)
- **BASO/SC:** Develop and Implement a comprehensive Corrective Action Plan (CAP) with end-states and timelines to address all findings and appropriate recommendations resulting from the February 2017 DOE-HQ-SC Safeguards and Security Assessment and the October 2018 For-Cause Foreign Visits and Assignments Review. (Objective 8.3)

ELEMENT	Letter Grade	Numerical Score	Objective Weight	Overall Score
Goal 8.0 - Sustain and Enhance the Effectiveness of Integrated Safeguards and Security management (ISSM) and Emergency Management Systems.				
8.1 Provide an Efficient and Effective Emergency Management System			20%	
8.2 Provide an Efficient and Effective Cyber Security System for the Protection of Classified and Unclassified Information			20%	
8.3 Provide an Efficient and Effective Physical Security Program for the Protection of Special Nuclear			60%	

Materials, Classified Matter, Classified Information, Sensitive Information, and Property				
Performance Goal 8.0 Total				

Table 8.1 – Performance Goal 8.0 Score Development

Total Score	4.3- 4.1	4.0- 3.8	3.7- 3.5	3.4- 3.1	3.0- 2.8	2.7- 2.5	2.4- 2.1	2.0- 1.8	1.7- 1.1	1.0-0.8	0.7-0
Final Grade	A+	A	A-	B+	B	B-	C+	C	C-	D	F

Table 8.2 – Goal 8.0 Final Letter Grade

ATTACHMENT J.3

APPENDIX C

**SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT FOR
USE WITH THE PAYMENTS CLEARED FINANCING ARRANGEMENT**

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National
Laboratory**

Contract No. DE-AC02-05CH11231

**SPECIAL FINANCIAL INSTITUTION ACCOUNT AGREEMENT
FOR USE WITH THE
PAYMENTS CLEARED FINANCING ARRANGEMENT**

Agreement Number 1000001911 entered into this, 1st day of November, 2019, between the UNITED STATES OF AMERICA, represented by the Department of Energy (hereinafter referred to as "DOE" or "Government"), and the Regents of the University of California, a corporation/legal entity existing under the laws of the State of California and under contract for managing and operating the Lawrence Berkeley National Laboratory (LBNL) (hereinafter referred to as the Contractor) and Wells Fargo Bank, N.A, a financial institution corporation existing under the laws of the State Delaware (hereinafter referred to as the Financial Institution).

RECITALS

(a) On the effective date of May 2005, DOE and the Contractor entered into Contract No. DE-AC02-05CH11231 or a Supplemental Contract thereto, providing for the transfer of funds on a payments-cleared basis.

(b) DOE requires that amounts transferred to the Contractor there under be deposited in a special demand deposit account at a financial institution covered by Treasury-approved Government deposit insurance organizations that are identified in I TFM 6-9000.

These special demand deposits must be kept separate from the Contractor's general or other funds, and the parties are agreeable to so depositing said amounts with the Financial Institution.

(c) The special demand deposit account shall be designated "Lawrence Berkeley National Laboratory, Agreement No. 1000001911, DOE Special Bank Account."

COVENANTS

In consideration of the foregoing, and for other good and valuable considerations, it is agreed that—

1. The Government shall have a title to the credit balance in said account to secure the repayment of all funds transferred to the Contractor, and said title shall be superior to any lien, title, or claim of the Financial Institution or others with respect to such account.

2. The Financial Institution shall be bound by the provisions of said Agreement(s) between DOE and the Contractor relating to the transfer of funds into the and withdrawal of funds from the above special demand deposit account, which are hereby incorporated into this Agreement by reference, but the Financial Institution shall not be responsible for the application of funds withdrawn from said account. After receipt by the Financial Institution of directions from DOE, the Financial Institution shall act thereon and shall be under no liability to any party hereto for any action taken in accordance with the said written directions. Any written directions received by the Financial Institution from the Government upon DOE stationery and purporting to be signed by, or signed at the written direction of, the Government may, insofar as the rights, duties, and liabilities of the Financial Institution are concerned, be considered as having been properly issued and filed with the Financial Institution by DOE.

3. DOE, or its authorized representatives, shall have access to financial records maintained by the Financial Institution with respect to such special demand deposit account at all reasonable times and for all reasonable purposes, including, but without limitation to, the inspection or copying of such financial records and any or all memoranda, checks, payment requests, correspondence, or documents pertaining thereto. Such financial records shall be preserved by the Financial Institution for a period of 6 years after the final payment under the Agreement.

4. In the event of the service of any writ of attachment, levy of execution, or commencement of garnishment proceedings with respect to the special demand deposit account, the Financial Institution shall promptly notify both DOE and LBNL at:

Maria Robles
Contracting Officer
DOE Berkeley Site Office
One Cyclotron Road
Berkeley, CA 94720

Andrew Padilla
Pr. Subcontract Administrator
Lawrence Berkeley National Laboratory
One Cyclotron Road, Mail-Stop 971-PROC
Berkeley, CA 94720

5. DOE shall authorize funds that shall remain available to the extent that obligations have been incurred in good faith thereunder by the Contractor to the Financial Institution for the benefit of the special demand deposit account. The Financial Institution agrees to honor upon presentation for payment all payments issued by the Contractor and to restrict all withdrawals against the funds authorized to an amount sufficient to maintain the average daily balance in the special demand deposit account in a net positive and as close to zero as administratively possible.

The Financial Institution agrees to service the account in this manner based on the requirements and specifications contained in the following documents: Statement of Work for Banking Services dated October 16, 2019, Data Security, Privacy and Information Management Requirements, dated December 11, 2018, and Schedule of Services and Charges for Lawrence Berkeley National Laboratory Banking Services Agreement No. 1000001911. The Financial Institution agrees that per-item costs, detailed in the Schedule of Services and Charges for Lawrence Berkeley National Laboratory Banking Services Agreement No. 1000001911, shall remain constant or lower, during the term of this Agreement.

The Financial Institution shall calculate the fees based on services rendered, and charge basis, and invoice the Contractor. The Contractor shall issue a check or automated clearinghouse authorization transfer to the Financial Institution in payment thereof.

6. The Financial Institution shall post collateral in accordance with 31 CFR 202 with the Federal Reserve bank in an amount equal to the net balances in all of the accounts included in this Agreement (including the noninterest-bearing time deposit account), less the Treasury-approved deposit insurance.

7. This Agreement, with all its provisions and covenants, shall be in effect for a term of three (3) years, beginning on the 1st day of November, 2019, and ending on the 31st day of October, 2022. The Agreement may be extended for two additional periods of one year each, under the same pricing, terms, and conditions. Any such extension shall be by issuance of a written modification executed by all parties to the Agreement.

8. DOE, the Contractor, or the Financial Institution may terminate this Agreement at any time within the agreement period upon submitting written notification to the other parties 180 days prior to the desired termination date. The specific provisions for operating the account during this 180-day period are contained in Covenant 11.

9. DOE or the Contractor may terminate this Agreement at any time upon 30 days' written notice to the Financial Institution if DOE or the Contractor, or both parties, find that the Financial Institution has failed to substantially perform its obligations under this Agreement or that the Financial Institution is performing its obligation in a manner that precludes administering the program in an effective and efficient manner of that precludes the effective utilization of the Government's cash resources.

10. Notwithstanding the provisions of Covenants 8 and 9, in the event that the Agreement, referenced in Recital (a), between DOE and the Contractor is not renewed or is terminated, this Agreement between DOE, the Contractor, and the Financial Institution shall be terminated automatically upon the delivery of written notice to the Financial Institution.

11. In the event of termination, the Financial Institution agrees to retain the Contractor's special demand deposit account for an additional 180-day period to clear outstanding payment items.

12. Insurance

A. Types of Coverage

The Financial Institution shall obtain, keep in force, and maintain insurance to cover its performance under this Agreement of the types and in the amounts set forth below. Such insurance shall be maintained in full force and effect during the performance of work required by this Agreement. The stipulation of required coverage and limits of insurance shall not in any way limit the liability of the Financial Institution.

Commercial General Liability Insurance

Minimum Limit

• Per Occurrence	\$ 1,000,000
• Products/Completed Operations Aggregate	\$ 2,000,000
• Personal and Advertising Injury	\$ 1,000,000

- General Aggregate \$ 2,000,000

Privacy, Technology and Data Security Liability, Cyber Liability,
or Technology Professional Liability Insurance

	<u>Minimum Limit</u>
• Each Occurrence	\$ 1,000,000
• Annual Aggregate	\$ 5,000,000

The Privacy, Technology and Data Security Liability, Cyber Liability, or Technology Professional Liability insurance policy shall provide coverage for privacy and data security breaches, including coverage for reasonable costs in investigating and responding to privacy and/or data breaches.

B. Insurance Certificate Requirements

- Primary and Noncontributory Endorsement. The general liability insurance coverage, by a valid endorsement, shall be primary and noncontributory and shall not participate with or be in excess over any other valid collectible insurance or program of self-insurance of the Contractor or the U.S. Government. Statements on the certificate designating the insurance as primary and noncontributory will not suffice, an endorsement is required.

- Certificate Holder. The Certificate Holder shall be listed as follows.

The Regents of the University of California and the U.S. Government
Lawrence Berkeley National Laboratory
c/o Insurance Tracking Services, Inc. (ITS)
P.O. Box 20270
Long Beach, CA 90801

- Rating. The required insurance shall be obtained from insurance companies authorized to do business in California that have an A.M. Best rating of A-: VII or better, or an equivalent Standard & Poor's rating of AA or better or Moody's rating of Aa or better; or that are acceptable to the Contractor.
- Deductible. Subcontractor shall bear all financial responsibility for all pertinent deductibles, self-insured retentions and/or self-insurance with no contribution required from the Contractor and/or DOE.
- Self-Insurance Retention. Subcontractor shall bear all financial responsibility for all pertinent deductibles, self-insured retentions and/or self-insurance with no contribution required from the Contractor and/or DOE.
- Applicability. The insurance certificates submitted may be able to be applied to future LBNL Agreements, and it is preferred that it not be made applicable,

or reference, a specific Agreement.

C. Notification

The Financial Institution or its insurers shall provide written notification to the Contractor's Procurement Representative and Insurance Tracking Services, Inc. (ITS) at least 30 days in advance of any modification, change, or cancellation of any of the insurance coverage.

D. Certificate Submission

The Contractor has contracted with Insurance Tracking Services, Inc. (ITS), a third party responsible for verifying the Financial Institution's compliance with the insurance requirements contained in the Agreement with the Contractor.

ITS will correspond directly with the Financial Institution to convey insurance deficiencies, policy renewal requests and any other insurance documentation that may be lacking in order to establish full compliance with the Contractor's insurance requirements.

Prior to commencing any Services at a location other than the Financial Institution's or lower-tier subcontractor's facilities, the Financial Institution shall provide certificate(s) of insurance and any necessary endorsements or other documentation confirming the required insurance coverage, by submitting them to the Contractor's authorized insurance compliance monitoring representative, ITS at lbl@instracking.com or fax to (562) 435-2999, or mail to:

The Regents of the University of California and the U.S. Government
Lawrence Berkeley National Laboratory
c/o Insurance Tracking Services, Inc. (ITS)
P.O. Box 20270
Long Beach, CA 90801

E. The requirements of this Covenant shall be met by the Financial Institution at no additional cost to DOE and the Contractor.

13. This Agreement shall continue in effect for the 180-day additional period, with exception of the following:

- a. Term Agreement (Covenant 7)
- b. Termination of Agreement (Covenant 8 and 9)

All terms and conditions of the aforesaid documents listed in Covenant 5 that are not inconsistent with this 180-day additional term shall remain in effect for this period.

14. The Financial Institution has submitted the forms entitled "Technical Representations and Certifications" and "University of California Lawrence Berkeley National Laboratory Representations and Certifications." These forms, in addition to the "Offeror's Pricing" form have been accepted by the Contractor and the Government and are incorporated herein as an integral part of this Agreement.

IN WITNESS WHEREOF the parties hereto have caused this Agreement, which consists of 9 pages, including the signature pages, to be executed as of the day and year first above written.

THE UNITED STATES OF AMERICA

U.S. Department of Energy

**Maria
Robles**

Digitally signed
by Maria Robles
Date: 2019.10.29
10:50:14 -07'00'

By _____

(Name of Contracting Officer)

(Signature of Contracting Officer)

(Date of Signature)

The Regents of the University of California

By Arthur Guimaraes

(Name of Contractor's Representative)



(Signature of Contractor's Representative)

Chief Operating Officer

(Title)

1111 Broadway, Suite 2100, Oakland CA 94607

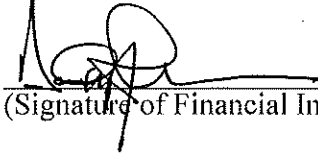
(Address)

10/25/2019

(Date of Signature)

By

(Name of Financial Institution Representative)



(Signature of Financial Institution Representative)

SENIOR VICE PRESIDENT

(Title)

1750 H ST. NW SUITE 200 WASHINGTON, DC 20007

(Address)

202-416-2618

(Telephone Number)

10/24/2019

(Date of Signature)

NOTE

The Contractor, if a corporation, shall cause the following Certificate to be executed under its corporate seal, provided that the same officer shall not execute both the Agreement and the Certificate.

CERTIFICATE

I, _____, certify that I am the _____ of the corporation named as Contractor herein; that _____, who signed this Agreement on behalf of the Contractor, was then _____ of said corporation and that said Agreement was duly signed for the and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(Corporate Seal) (Signature)

NOTE

Financial Institution, if a corporation, shall cause the following Certificate to be executed under its corporate seal, provided that the same officer shall not execute both the Agreement and the Certificate.

CERTIFICATE

I, _____, certify that I am the _____ of the corporation named as Contractor herein; that _____, who signed this Agreement on behalf of the Contractor, was then _____ of said corporation and that said Agreement was duly signed for the and in behalf of said corporation by authority of its governing body and is within the scope of its corporate powers.

(Corporate Seal) (Signature)



SENIOR VICE PRESIDENT

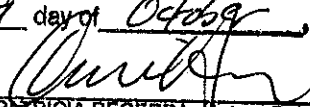
WELLS FARGO BANK, N.A.

10/24/2019

District of Columbia: SS

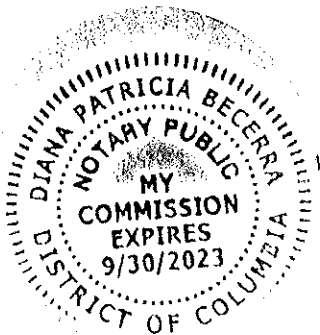
Subscribed and Sworn to before me

this 29 day of October, 2019



DIANA PATRICIA BECERRA, Notary Public, D.C.

My commission expires September 30, 2023



CERTIFICATE OF INCUMBENCY

I, Anne Shaw, Secretary and Chief of Staff to The Regents of The University of California, a corporation organized and existing under the laws of the State of California (the "Corporation"), hereby certify that the persons named below hold the positions set forth next to their names and the signatures provided below are genuine.

Name	Title	Signature
Janet Napolitano	President	
Jagdeep Singh Bachher	Vice President and CIO	
Arthur Guimaraes	Chief Operating Officer	
Steven Sterman	Senior Managing Director	



Anne Shaw

Secretary and Chief of Staff to

The Regents of the University of California, a Corporation

Dated: July 29, 2016

ATTACHMENT J.4

APPENDIX D

**LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS,
SPACE AND EQUIPMENT**

(Applies only if Clause H.40A is applicable)

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

LEASE AND OCCUPANCY AGREEMENTS, CAMPUS BUILDINGS,
SPACE AND EQUIPMENT

- (a) The Contractor and the Government have entered into the following lease and occupancy agreements:
- (1) Occupancy Agreement entered into on June 28, 1948; Supplement No. 1 dated May 16, 1956; Supplement No. 2 dated October 24, 1961; Supplement No. 3 dated April 30, 1963; Supplement No. 4 dated December 2, 1964; Supplement No. 5 dated June 15, 1970; Supplement No. 6 dated February 23, 1988; Supplement No. 7 dated May 24, 2011; Supplement No. 8 dated December 2, 2014; Supplement No. 9 dated April 4, 2018; Supplement No. 10 dated May 20, 2020.
 - (2) Lease Agreement entered into on September 1, 1948 (Wilson Tract); Supplement No. 1 dated January 3, 1949; Supplement No. 2 dated June 30, 1955; Supplement No. 3 dated April 17, 1962; Supplement No. 4 dated April 6, 1965; Supplement No. 5 dated December 5, 1967; Supplement No. 6 dated April 3, 1975; Supplement No. 7 dated May 24, 2011; Supplement No. 8 dated April 25, 2012; Supplement No. 9 dated June 2, 2016; Supplement No. 10 dated April 4, 2018; Supplement No. 11 dated May 20, 2020.
 - (3) Lease Agreement entered into on November 9, 1959 (State University Tract – Plot 80 & 82); Supplement No. 1 dated December 2, 1964; Supplement No. 2 dated June 9, 1986; Supplement No. 3 dated February 23, 1988; Supplement No. 4 dated May 24, 2011; Supplement No. 5 dated April 23, 2012; and Supplement No. 6 dated April 4, 2018; Supplement No. 7 dated May 20, 2020.
 - (4) Lease Agreement entered into on January 19, 1961 (East Site Development - Parcel 15); Supplement No. 1 dated May 25, 1962 (State University Tract, Simmons Plot); Supplement No. 2 dated September 21, 1962; Supplement No. 3 dated December 5, 1967; Supplement No. 4 dated October 6, 1969; Supplement No. 5 dated July 5, 1979; Supplement No. 6 dated April 1, 1985; Supplement No. 7 dated October 25, 1985; Supplement No. 8 dated October 12, 1985; Supplement No. 9 dated July 23, 1992; Supplement No. 10, dated June 2, 2003; Supplement No. 11 dated June 2, 2003; Supplement No. 12 dated May 23, 2011; Supplement No. 13 dated April 4, 2018; and Supplement No. 14 dated May 20, 2020.
 - (5) Lease Agreement entered into on May 1, 1962 (State University Campus Plot "O"); Supplement No. 1 dated September 21, 1962; Supplement No. 2 dated October 21, 1964; Supplement No. 3 dated March 23, 1965; Supplement No. 4 dated April 27, 1966; Supplement No. 5 dated February 10, 1967; Supplement No. 6 dated July 5, 1979; Supplement No. 7 dated May 23, 2011; Supplement No. 8 dated April 4, 2018; and Supplement No. 9 dated May 20, 2020.

- (6) Lease Agreement entered into on June 15, 1963 (Bailey Tract); Supplement No. 1 dated February 23, 1988; Supplement No. 2 dated May 24, 2011; Supplement No. 3 dated June 7, 2011; Supplement No. 4 dated March 10, 2020; and Supplement No. 5 dated May 20, 2020.
 - (7) Occupancy Agreement for the Computational Research and Theory (CRT) Facility, dated October 12, 2011; Amendment No. 1 dated July 6, 2016 (incorporated herein by this reference).
 - (8) Occupancy Agreement for Solar Energy Research Center (SERC) (Chu Hall), dated August 9, 2014 (incorporated herein by this reference).
 - (9) Occupancy Agreement for Oakland Scientific Facility (OSF), dated December 3, 2018 (incorporated herein by this reference).
- (b) The provisions outlined below shall apply to the lease or occupancy by the Government of the property of the Contractor:
- (1) Lease and Occupancy Agreements For Structures And Improvements On Regular University Campus. The Contractor and DOE have entered into or shall enter into occupancy or lease agreements for the use of the regular University campus upon which structures and other improvements financed by the Government have been or will be constructed. Lease agreements shall be used in the case of new Government-owned structures and to the extent mutually agreed upon for other structures. Such lease agreements shall conform to leases entered into pursuant to paragraph (b)(2) below, except for such differences as the parties have agreed upon for prior leases on the State University Tract or may hereafter mutually agree upon. Such occupancy agreements shall incorporate the following terms and conditions, and such other provisions as may be agreed to by the parties:
 - (i) DOE shall have the right to occupy and use the property in conjunction with the Contractor during the term of this contract and any successor contracts and for three years after termination of such contracts as provided below.
 - (ii) After termination of this contract or any successor contract, and by mutual agreement of the parties at any time during the course of the work, the Contractor shall have the right to purchase any such structure or improvement at a price to be agreed upon as fair and proper. DOE shall be given reasonable notice of the Contractor's election to purchase. In the event the parties cannot agree upon the price for any such structure or improvement which the Contractor elects to purchase, the value of the structure shall be determined by an appraiser mutually acceptable to the parties. In any such appraisal the original cost and appropriate depreciation of the structure or improvement shall be given full consideration in the determination of value.

- (iii) Subject to the Contractor's right to purchase, DOE shall have the right to occupy and use the structures and improvements in conjunction with the Contractor for a period of three years after termination for storage and such other purposes as may be approved by the Contractor, and to remove all or any part of any such structure or other improvements.
 - (iv) DOE shall not be obligated to restore any such property to its original condition or otherwise, except if DOE removes any substantial part of any structure or improvement the Contractor may require the restoration of the affected premises to its original condition.
 - (v) During the period of occupancy by DOE after termination, the Contractor shall continue to provide adequate maintenance, utilities and other necessary services, and shall afford DOE and its designees access to the premises at all times. DOE shall pay the Contractor for its direct expenses for maintenance and services for the structures and improvements attributable to DOE's occupancy and use during the period after termination.
 - (vi) Upon expiration of the three-year period after termination, all structures and improvements not purchased or removed shall become the property of the Contractor.
- (2) Lease Agreements For Structures And Improvements On Wilson Tract, Plot "O" And Plot "M." The Contractor and DOE have entered into or shall enter into lease agreements granting DOE rights in the property of the Contractor known as Wilson Tract, Plot "O" and "M" upon which structures and other improvements financed by the Government have been or will be constructed. Such leases shall incorporate the following terms and conditions, and such other provisions as may be agreed to by the parties:
- (i) DOE shall be granted a 50-year lease, or as otherwise stated, for the premises occupied by such structures and improvements together with a reasonable surrounding area. If the contractual relations between the Contractor and the Government are in effect at the end of the 50-year period of any lease period, or as otherwise stated the term of the lease shall extend until the termination of such relationship and three years thereafter. The term of the lease for each structure or improvement shall be effective from the date of approval of construction by DOE.
 - (ii) Under any such lease during the term of this contract and its extensions, the premises shall be used solely by the Contractor and DOE in carrying on work under this contract, unless otherwise agreed to by the parties in writing.
 - (iii) The Contractor at any time during the term of the contract may purchase any such structure or improvement where the needs of the program no

longer require their use. Such purchase shall be subject to paragraph (b)(2)(iv) below.

- (iv) After termination of this contract or any successor contract, and by mutual agreement of the parties at any time during the course of the work, the Contractor shall have the right to purchase any such structure or improvement at a price to be agreed upon as fair and proper. DOE shall be given reasonable notice of the Contractor's election to purchase. In the event the parties cannot agree upon the price for any such structure or improvement which the Contractor elects to purchase, the value of the structure shall be determined by an appraiser mutually acceptable to the parties. In any such appraisal the original cost and appropriate depreciation of the structure or improvement shall be given full consideration in the determination of value.
 - (v) After termination, subject to the Contractor's right to purchase, DOE shall have the right to (A) continue research work related to energy, (B) place and maintain equipment related to the energy program, (C) remove all or any part of any such structure or improvements, and (D) carry on such other activities as may be mutually agreed to by the parties except as may be qualified by the parties. In exercising its rights pursuant to this subparagraph, DOE shall have the right to permit other organizations and individuals to participate with DOE in carrying on such activities.
 - (vi) Under any such lease, DOE shall not be obligated to restore any property to its original condition or otherwise, except that if DOE removes any substantial part of any structure or improvement the Contractor may require the restoration of the affected premises to its original condition.
 - (vii) During the period of the lease after termination of the contract, the Contractor shall continue to provide adequate maintenance, utilities, and other necessary services (including standby services), and shall afford DOE and its designees access to the premises at all times. DOE shall pay the Contractor for its direct expenses for maintenance and services for the structures and improvements attributable to DOE's use of the property during the period after termination.
 - (viii) Upon expiration of the term of this lease and such extensions as may be mutually agreed upon, all structures and improvements not purchased or removed shall become the property of the Contractor.
- (3) Lease and Occupancy by DOE of Real Property Owned by The University - Responsibility For Environmental Restoration And Remedial Work. Upon termination or expiration of contract DE-AC02-05CH11231 or any lease or occupancy agreements providing for the Government's use of the property of the Contractor, DOE shall be responsible for complying with applicable laws, regulations, or orders requiring investigation, monitoring, cleanup, containment,

restoration, removal, or other remedial activity with respect to any hazardous substances present in the soil, ground water or buildings as a result of activities conducted during the term of this contract or any prior contract modifications or during the term of any said lease or occupancy agreements.

(4) Contractor Building Space and Equipment.

- (i) Contractor building space and equipment used directly by Laboratory personnel under Contract DE-AC02-05CH11231 (previously Contracts W-7405-ENG-48 and DE-AC03-76SF00098) shall be at least equivalent to

Berkeley campus proper buildings	Facility Usable Sq. Ft.
1 – Donner Laboratory	20,340
8 – Hearst Mining	509
11 – Hildebrand Hall	8784
18 - Gilman Hall	1108
019A – Birge Hall	3327
22 – Latimer Hall	4806
24 – Etcheverry Hall	8
38 - Lewis Hall	602
39 – Cory	21
300 – Mulford	168
301 – Hilgard	1,611
302- Li Ka Shing	172
850 - Tan Hall	3,762
922 – Stanley	145
927 - Koshland Hall	2,142
953 – McCone	370
955 - EBI (Energy Biosciences Institute)	999
966 – Sutardja Dai	20
996 – Campbell	125
Subtotal (Contractor)	48,211
LBNL site proper buildings:	
(ALS) Advanced Light Source (previously 184" Cyclotron) – B6 Dome Only (referenced in DOE FIMS B6 note section)	24,317
Total Space Used	72,528
Equipment:	
Polar Crane in B6 (ALS) from 184" Cyclotron	

*Table updated as of 01/23/20.

- (ii) The Parties agree that Contractor space furnished under subparagraph (b)(4)(i) above by the Contractor may be changed from time to time by mutual agreement of the parties, and except as otherwise agreed, the Contractor shall continue to furnish space at no less than 72,528 square feet. In the event that the space furnished varies, the Contractor shall make an appropriate adjustment for maintenance and service charges (e.g., janitorial, electricity, steam, water, EHS services, etc.) related to such variation based on the annual campus space survey.
- (iii) In addition to the direct expenses for maintenance and services, DOE authorizes reimbursement calculated in accordance with CAS 414 (Facilities Capital Cost of Money – FCCM) and FAR 31.205-11 for the following facilities:

Solar Energy Research Center (SERC) or (Chu Hall)
Computational Research and Theory Facility (CRT) or (Wang Hall)

- (c) DOE shall have the right to occupy and use the property, identified below, in conjunction with the Contractor during the term of this contract and any successor contracts and for three years after termination of such contracts. Leases and Occupancy Agreements that are expiring during this period shall be modified by supplemental agreement to the end of contract period plus three years. Supplements shall be implemented 90 days prior to their expiration.
 - (1) If DOE has no continuing need to occupy the Land a supplement will be prepared identifying the Land being returned to the University and the agreed to “clean-up standards.”
 - (2) If DOE has a continuing need to occupy the Land or construct a new facility then DOE will enter into a lease parcel agreement rather than modify the occupancy agreement.

Ground Lease Parcel Summary*				
Tract	Parcel	Assets	Parcel Start Date	Parcel End Date
Wilson	1A	Bldgs 91, 91U	6/2/2016	10/7/2066
Wilson	1B	Bldgs 51F, 56, 56A, 60, 63, 64; Trailer 56M, S56, S64	9/1/1948	5/31/2025
Wilson	2	Bldgs 46, 46A; Trailers 46B, 46D	12/15/1948	5/31/2025
Wilson	3	Bldg 50	9/14/1948	5/31/2025
Wilson	4	Bldgs 54A, 70	3/27/1953	5/31/2025
Wilson	5	Bldgs 17, 27, 47, 53, 58, 58A; Trailers 7C, S7, 17A, S27, 30U, S53, 53B, 58B	12/18/1950	5/31/2025
Wilson	6	Bldgs 55, 55A, 60	2/15/1951	5/31/2025
Wilson	7	Bldgs 71, 71A, 71B, 71T; Trailers 71C, 71D, 71F, 71J, 71K, 71P, 71Q, 71W, 71X	7/27/1955	5/31/2025
Wilson	9	Bldgs 13B, 90, 90X; Trailers 90C, 90P, S90A, S90B	5/5/1959	5/31/2025
Wilson	10	Bldgs 13A, 65, 88, 88D; Trailers 65A, 65B, 88B, 88C, 88E, 88S	8/28/1959	5/31/2025
Wilson	16	Bldgs 50A, 50B, 50C, 50E, 50F	10/31/1960	5/31/2025
Wilson	22	Bldg 82; Trailers 81A, 81B, 81C, 81D	2/13/1967	5/31/2025
Bailey	20	Bldgs 26, 33, 33U	6/15/1963	7/1/2061
Bailey	26	Bldgs 6, 7, 13H, 34, 37; Trailer 6C	2/23/1988	2/22/2037
Bailey	30	Bldg 6W	03/10/2020	03/09/2040
Bailey	31	28RT	5/20/2020	5/19/2040
State Univ. (Plots 80 & 82)	5A	Bldgs 2, 2A	3/1/1986	2/29/2036
State Univ. (Plots 80 & 82)	11	Bldgs 70A, 70B	11/9/1959	5/31/2025
State Univ. (Plots 80 & 82)	21	Bldg 54	3/1/1965	5/31/2025
State Univ. (Plots 80 & 82)	27	Bldgs 6, 15, 80; Trailer 80A	2/23/1988	2/22/2037
State Univ. (Simmons Plot)	14	Bldgs 73, 73A	10/13/1960	5/31/2025
State Univ. (Simmons Plot)	15	Bldgs 74, 74F, 84, 84B; Trailers 74A, 74B	1/19/1961	5/31/2025
State Univ. (Simmons Plot)	19	Bldgs 62, 62B, 62G; Trailers 62A, 62C, 62D, 62V	12/1/1962	5/31/2025
State Univ. (Simmons Plot)	23	Bldg 61	9/1/1969	5/31/2025
State Univ. (Simmons Plot)	25	Bldgs 83, 85B, 86; Trailer 83S	9/1/1978	8/31/2028
State Univ. (Simmons Plot)	25A	Bldg 85; Trailers 85D, 85E, 85F, 85G, 85H, 85J, 85K, S85, S85A, S85B, S85C	9/1/1991	8/31/2041
State Univ. (Simmons Plot)	28	Bldgs 31, 66, 67, 72, 72A, 72B, 72C; Trailers 30E, 30F, 30U, 30V, 31A, 31B, 31C, 31K, 67L	6/2/2003	6/1/2053
State Univ. (Plot O)	12	Bldgs 33C, 68, 69, 75, 75A, 75B, 75D; Trailers 69S, 75F, 75P, 75R, 75Z, S75	11/9/1959	5/31/2025
State Univ. (Plot O)	17	Bldgs 77, 77A, 77H, 79; Trailers 77J, 77K, 77L, 77M, 77N, 79A	3/2/1962	5/31/2025
State Univ. (Plot O)	18	Bldgs 75C, 76, 78; Trailers 76C, 76D, 76H, 76L, 76M	12/1/1962	5/31/2025
State Univ. (Plot O)	29	Bldg 36A	6/2/2003	6/1/2053

*Table updated as of 02/20/2020. The above summary table is for informational purposes and is not intended to change applicable rights or obligations; refer to original ground lease, supplements, and other provisions of the contract for terms and conditions that apply.

ATTACHMENT J.5

APPENDIX E

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.6

APPENDIX F

RESERVED

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

ATTACHMENT J.7

APPENDIX G

PURCHASING SYSTEM REQUIREMENTS

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory**

Contract No. DE-AC02-05CH11231

Appendix G

Purchasing System Requirements

This Appendix and Clause I.114, "Contractor Purchasing System," sets forth DOE requirements applicable to the Purchasing System established under the Contract for the management of Ernest Orlando Lawrence Berkeley National Laboratory.

Subcontracts Not Binding on DOE

As used herein, the term "subcontracts" includes subcontracts, purchase orders, letter agreements, basic ordering agreements, consultant agreements, micro-purchases, EDI and FACNET transactions, and lower tier subcontracts under cost-type subcontracts (in an unbroken cost-type chain) that represent costs properly chargeable to the Prime Contract.

All applicable subcontracts shall be made in the name of the Contractor, shall not bind or purport to bind the Government, shall not relieve the Contractor of any obligation under the Prime Contract (including, among other things, the obligation to properly supervise and coordinate the work of subcontractors), and shall contain such provisions as are required by this Contract or as DOE may prescribe based on Federal statutes and regulations, or DOE Orders and Policies.

DOE Approval

Prior DOE written approval is required for the following actions:

1. Advanced Acquisition Plans, Solicitations, and awards of Subcontracts valued at \$10,000,000 or greater, including any subsequent modification that increases the total estimated costs at or above \$10,000,000.
2. Except as otherwise expressly provided or directed, in writing, by DOE Patent Counsel with notification to the Contracting Officer, actions which involve any one of, or combination of, the following intellectual property matters:
 - a. Acquisition of software by negotiated lease or license;
 - b. Purchase of patents or patent license rights, including the payment of royalties and permits, or license fees;
 - c. Recognition of proprietary rights, including the recognition of technical data as trade secrets; or,
 - d. Any restriction of DOE's use of data procured under a subcontract.

3. Inter-Contractor Purchases (ICP's) with estimated costs exceeding \$1,000,000.00, including any subsequent modification that increases the total estimated costs.
4. The purchase of utilities defined as: steam, gas, electricity, telephone lines, water and sewage furnished to campus building space occupied by LBNL-funded personnel.
5. Updates to Subcontract General Provisions (GPs) or Standard Practices (SPs) as a result of changes to the federal regulations or contract DE-AC02-05CH 11231 are pre-authorized as administrative changes. Substantive changes to GPs or SPs will be submitted to the Contracting Officer (CO) for approval. All administrative changes in the SPs or GPs will be provided to the CO at least 5 business days prior to the release.
6. Intra-University Transactions (IUT) with estimated costs exceeding \$1,000,000.00 including any subsequent modification that increases the total estimated costs. Any IUT modification that extends the period of performance more than 5 years.

The above approval requirements do not eliminate any other requirement for review, concurrence, or approval of other proposed actions specified in the subject contract or DOE's right to require consent on any single or class of purchasing actions selected for special surveillance.

ATTACHMENT J.8

APPENDIX H

SMALL BUSINESS SUBCONTRACTING PLAN

**Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory
Contract No. DE-AC02-05CH11231**

Lawrence Berkeley National Laboratory (LBNL)
Small Business Subcontracting Plan – FY 2020

DATE: November 4, 2019

CONTRACTOR: The Regents of the University of California

ADDRESS: 1 Cyclotron Road, Berkeley, CA 94720

CONTRACT #: DE-AC02-05CH11231

ITEM/SERVICE: Management & Operation of Lawrence Berkeley National Laboratory

The following is hereby submitted as a Small Business Subcontracting Plan to satisfy the applicable requirements of Public Law 95-507 as implemented by FAR Clause 52.219-9.

1. The total estimated dollar value of all planned subcontracting (to all types of business concerns) under this contract is: \$385,000,000. The goals below are based on this projected spend. The amounts estimated to be available to small businesses are shown below.

The following percentage goals (expressed in terms of a percentage of total planned subcontracting dollars) are applicable to the contract cited above.

- (a) Small business concerns: 45.0% of total planned subcontracting dollars under this contract will go to subcontractors who are small business concerns.
- (b) Veteran-owned small business concerns (VOSB): 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are veteran-owned small business concerns. This percentage is included in the percentage shown under 2(a) above. Note: The VOSB goal will be primarily achieved by targeting opportunities towards the service-disabled veteran-owned small business (SDVOSB) concerns under the goal mentioned under 2(c) below.
- (c) Service-disabled veteran-owned small business concerns (SDVOSB): 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are service-disabled veteran-owned small business concerns. This percentage is included in the percentage shown under 2(a) and (b) above.
- (d) HUBZone small business concerns: 3.0% of total planned subcontracting dollars under this contract will go to subcontractors who are HUBZone small business concerns. This percentage is included in the percentage shown under 2(a) above.
- (e) Small disadvantaged business concerns (SDB): 5.0% of total planned subcontracting dollars under this contract will go to subcontractors who are small disadvantaged business concerns. This percentage is included in the percentage shown under 2(a) above.
- (f) Women-owned small business concerns (WOSB): 5.0% of total planned subcontracting dollars under this contract will go to subcontractors who are women-owned small business concerns. This percentage is included in the percentage shown under 2(a) above.

2. The following dollar values correspond to the percentage goals shown in 2 above.

- (a) Total dollars planned to be subcontracted to small business concerns: \$173,250,000.
- (b) Total dollars planned to be subcontracted to veteran-owned small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) above.
- (c) Total dollars planned to be subcontracted to service-disabled veteran-owned small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) and (b) above.
- (d) Total dollars planned to be subcontracted to HUBZone small business concerns: \$11,550,000. This amount is included in the amount shown under 3 (a) above.
- (e) Total dollars planned to be subcontracted to small disadvantaged business concerns: \$19,250,000. This amount is included in the amount shown under 3 (a) above.
- (f) Total dollars planned to be subcontracted to women-owned small business concerns: \$19,250,000. This amount is included in the amount shown under 3 (a) above.

3. Anticipated principal products and/or services to be subcontracted under this contract to small business concerns are listed below along with the anticipated distribution to small, veteran-owned, service-disabled veteran-owned, HUBZone, small disadvantaged, and women-owned small business concerns:

CATEGORY	SB	VOSB	SDVOSB	HUB	SDB	WOSB
Architect-Engineer Services	X				X	X
Building/Construction Machinery	X					
Building/Construction Supply (eBuy Catalog)	X					
Chemicals (eBuy Catalog)	X					
Computer/Technology Services	X	X	X	X	X	X
Construction/Repair Services (DOE, MPP)	X	X	X		X	
Consultant Services	X				X	X
Design/Graphic Supply	X				X	X
Domestic Appliance	X					
Electrical Supply (eBuy Catalog)	X					
Electronic Component (eBuy Catalog)	X				X	X
Electronic Consumer Goods (eBuy Catalog)	X			X	X	X
Environmental Services	X					
Equipment Repair/Maintenance	X				X	X
Fabrication	X					
Furniture/Furnishings (eBuy Catalog)	X				X	X

CATEGORY	SB	VOSB	SDVOSB	HUB	SDB	WOSB
Gases, Bulk (eBuy Catalog)	X					
HEPA Filter (eBuy Catalog)	X					
Industrial Supply (eBuy Catalog)	X					
Isotopes (eBuy Catalog)	X					
IT Hardware (eBuy Catalog)	X			X	X	X
Laboratory Equipment (DOE Mentor Protégé Program)	X	X	X	X		
Landscaping Services	X					
Laser Equipment (DOE Mentor-Protégé Program)	X	X	X	X		
Lease, Equipment (DOE Mentor-Protégé Program)	X	X	X			
Office Equipment (eBuy Catalog)	X				X	X
Paper Material/Products (eBuy Catalog)	X				X	X
Research & Development	X					X
Respiratory Equipment (eBuy Catalog)	X					X
Safety Equipment (eBuy Catalog)	X					X
Security Equipment (eBuy Catalog)	X					X
Temporary Personnel	X			X	X	X
Tools/Machinery (eBuy Catalog)	X					X
Work Apparel Product (eBuy Catalog)	X					X

4. The following method was used in developing subcontract plan goals:

The Laboratory's FY 2020 subcontracting goals were based on subcontracting goals provided by the DOE and laboratory estimated subcontracting spend for FY 2020. The Laboratory will strive to meet or exceed these goals. The Laboratory has developed a number of initiatives for FY 2020 as explained below to meeting these goals with a focus on SDVOSB and WOSB subcontract awards.

5. The following methods were used to identify potential sources for solicitation purposes:

The Laboratory plans to utilize both outreach and in-reach activities to maximize opportunities to small businesses.

Outreach efforts to obtain sources and attract small businesses:

- Communicate with small business trade associations and related organizations, and attend small business conferences, training and trade fairs when possible. We will select from the list below:
 - DoD Western Regional Council for Small Business Education and Advocacy Training (Does not offer membership - usually 2 training events in California each year)
 - Procurement Technical Assistance Centers (PTAC) (Does not offer membership)

- Women's Business Enterprise Council-West (WBEC-West) (LBNL is a member)
- California Association of Public Procurement Officials (CAPPO) (LBNL is a member)
- National Contract Management Assn (NCMA) (LBNL is a member)
- Oakland and Berkeley Chambers of Commerce (LBNL is a member)
- DOE Annual Small Business Conference
- Sandia National Laboratories' annual small business event in Livermore
- Leverage resources such as:
 - Advertising subcontracting opportunities on FedBizOpps
 - System for Award Management (SAM)
 - SBA Dynamic Small Business Search
 - GSA, ICPT, UC Agreements with small businesses
 - DOE Mentor-Protégé Program participants, Other Than Small Business (OTSB) Supplier Diversity resources, Small Business specialists throughout the DOE complex, listings of available Small Business teaming arrangements and related resources
- Increase the size of the small business supplier pool
 - Small Business Program Officer (SBPO) to identify new potential participants for the DOE Mentor-Protégé Program targeting SDVOSB and WOSB suppliers

In-reach efforts to promote small business engagement and subcontracting:

- Enhance Small Business Directory and maintain the Small Business supplier section on the Procurement and Property Department website to allow easy access to Small Business information for procurement specialists and Laboratory end-users.
- Review and update relevant Procurement Standard Practices and provide training, as needed.
- Assist procurement specialists with developing bidders' lists for individual requirements to include small businesses.
- Assist procurement specialists, when necessary, in conducting market research for acquisitions greater than \$25,000, with increased emphasis on identifying possible SDVOSB and WOSB set-asides and non-competitive opportunities when appropriate.
- Include small business goals as an element of employee performance goals.
- Monitor small business performance against LBNL's small business goals and brief management on progress, risks to meeting goals and provide recommendations.
- To maximum extent practical, continue eCommerce (eBuy) strategy of primarily using small business suppliers. Currently 46 out of 48 eBuy catalogs are with small business suppliers.
- Promote SDVOSB and WOSB service providers to Laboratory end users, including four current Mentor-Protégé Program participants.

6. Indirect costs (check one below):

☒ have been,

☐ have not been included in the goals specified

7. The following individual will administer the subcontracting program:

Name: Roger Minami
Title: Small Business Program Officer (SBPO)
Address: 1 Cyclotron Road, MS 971-PROC, Berkeley, CA 94720
Telephone: 510-486-4883

This individual's specific duties, as they relate to the Laboratory's subcontracting program, are as follows:

- Conduct market research for requisitions over \$25,000, as needed, to maximize subcontracting opportunities for small business concerns. Market research to include advocacy for small business teaming/mentor-protégé opportunities, and noncompetitive recommendations when appropriate.
 - Identify requirements that can be set-aside for small businesses within multiple socio-economic categories.
 - Assist procurement personnel and technical end users with monitoring activities to assure compliance with subcontracting plans, including verification of supplier credentials in SAM.
 - Utilize various sources for the identification of small business concerns (see Section 6 above). This includes market introduction of potential sources to technical end users to assist them in their efforts to plan out requirements and increase small business participation at the Laboratory.
 - Attend a variety of small business events (see listing above).
 - Review new supplier capabilities and match/introduce them to procurement specialists and others where applicable.
 - Train procurement staff when needed on small business program requirements, processes and how to maximize small business opportunities.
 - Assist procurement specialists to document reasons for not selecting the lowest bids or bids within fair market value to justify small business awards.
 - Monitor team and department performance against socio-economic goals. Brief management on progress, risks to meeting goals and provide recommendations.
 - Prepare and submit required reports.
8. The following efforts will be taken by the SBPO to assure that small business, service-disabled veteran owned, HUBZone small business, small disadvantaged business and women-owned business concerns will have an equitable opportunity to compete for subcontracts:
- (a) Advocate for SB set-asides, teaming/mentor-protégé opportunities and sole-source SB awards when appropriate
 - (b) Monitor team socio-economic performance against the goals (Good Faith Effort)
 - (c) Expand the mentor-protégé pilot program to target opportunities for SDVOSB and WOSBs
9. Lawrence Berkeley National Laboratory agrees that FAR 52.219-8 (*Utilization of Small Business Concerns*) will be included in all subcontracts (except subcontracts for commercial items \$700,000 or less) and FAR 52.219-9 (*Small Business Subcontracting Plan*) in all subcontracts greater than \$700,000 (\$1,500,000 for construction), with the exception of subcontracts for commercial items, if subcontract involves any further subcontracting opportunities. Such plans will be reviewed by comparing them

with the provisions of FAR 52.219-9, and assuring that all minimum requirements of an acceptable subcontracting plan has been satisfied for maximum SB participation. The acceptability of percentage goals shall be determined on a case-by-case basis depending on the supplies/services involved and the availability of potential small business subcontractors. Once approved and implemented, plans will be monitored through the submission of periodic reports, and subcontracting program progress. We will discuss relevant goal attainment issues of SB subcontract plan holders when needed.

10. Lawrence Berkeley National Laboratory agrees to submit periodic reports and cooperate in any studies or surveys as may be required by the contracting agency or the Small Business Administration in order to determine the extent of compliance with the subcontracting plan and with the clause entitled "Utilization of Small Business Concerns" contained in the contract. We further agree to submit The Individual Subcontracting Report for Individual Contracts (ISR due at the end of April and October), and the Summary Subcontract Report (SSR due at the end of October), in accordance with the instructions outlined in the government wide eSRS Subcontracting Reporting System located at www.esrs.gov.

Additionally, we will ensure that our subcontractors will submit eSRS reports, as applicable.

11. LBNL agrees to maintain at least the following types of records to document compliance with this small business subcontracting plan:
 - (a) Small Business source lists associated with previous requirements for future market research needs. Source list to include organizations contacted during the market research (if applicable).
 - (b) Records on each subcontract solicitation resulting in an award of more than \$150,000, indicating on each solicitation
 - i. Whether small business concerns were solicited, and if not, why not;
 - ii. Whether service-disabled veterans-owned small business concerns were solicited, and if not, why not;
 - iii. Whether HUBZone small business concerns were solicited, and if not, why not;
 - iv. Whether small disadvantaged business concerns were solicited, and if not, why not;
 - v. Whether women-owned small business concerns were solicited, and if not, why not; and
 - vi. If applicable, the reason award was not made to a small or small disadvantaged business concern.
 - (c) On a subcontract-by-subcontract basis, records to support award data including the name, address and business size of each subcontractor.

12. Other Assurances:

- (a) We have not and will not prohibit any subcontractor from discussing with our Contracting Officer any material matter pertaining to payment to, or utilization of, a subcontractor.
- (b) We have and will continue to pay our small business subcontractors on time and in accordance with the terms and conditions of the underlying subcontract and notify the contracting officer when we make either a reduced or an untimely payment to a small business subcontractor in accordance with the requirements in clause I.165 (FAR 52.242-5, Payments To Small Business Subcontractors) in our DOE prime contract.

This subcontracting plan was submitted by:

Signature:	<u>Edna Annis</u>
Name:	<u>Edna P. Annis</u>
Title:	<u>Chief Procurement Officer</u>
Date:	<u>11/4/2019</u>
Phone Number:	<u>510-486-5824</u>

Approval:

Signature:	<u>Michelle N. Sheldon</u>
Name:	<u>Michelle Sheldon</u>
Title:	<u>DOE Contracting Officer</u>
Date:	<u>12/9/2019</u>
Phone Number:	<u>510-486-4298</u>

ATTACHMENT J.9

APPENDIX I

DOE DIRECTIVES/LIST B

Applicable to the Operation of
Ernest Orlando Lawrence Berkeley National Laboratory

Contract No DE-AC02-05CH11231

Number	Title	CRD Applicability	Effective Date	Implementation Plan
DOE O 130.1	Budget Formulation	All	6/1/2005	No
DOE O 142.3A Chg 2 (LtdChg)	Unclassified Foreign Visits and Assignments Program	All (Requirements for remote users will be documented in the Site Security Plan)	4/8/20	No
DOE O 150.1A	Continuity Programs	All	7/3/2014	No
DOE O 151.1D Chg 1 (MinChg)	Comprehensive Emergency Management System	All	12/16/2019	Yes Full implementation by 3/31/2018
DOE O 200.1A Chg 1 (MinChg)	Information Technology Management	All	6/29/2017	No
DOE O 205.1C	Department of Energy Cybersecurity Program	All (Revisions to the SC-CSPP that change contractor requirements will be evaluated for impact under the existing contract Management processes)	7/24/2019	No
DOE O 206.1 Chg 1 (MinChg)	Department of Energy Privacy Program	All See Appendix P for Advanced Understanding regarding Implementation.	6/20 /19	No
DOE O 206.2	Identity, Credential, and Access Management (ICAM)	All	6 /3/2013	No
DOE O 210.2A	DOE Corporate Operating Experience Program	All	12/2/2011	No
DOE O 221.1B	Reporting Fraud, Waste, and Abuse To The Office of Inspector General	All	3/16 /2017	No
DOE O 221.2A	Cooperation With The Office of Inspector General	All	3/7/2011	No
DOE O 225.1B	Accident Investigations	All (Cooperation with DOE investigation only)	12/2/2011	No
DOE O 227.1	Independent Oversight Program	All	4/20/2012	No
DOE O 231.1B Admin Chg 1	Environment, Safety and Health Reporting	All	7/3/2014	No
DOE O 232.2A Chg 1 (MinChg)	Occurrence Reporting and Processing of Operations Information	All	12/16/2019	Yes Full implementation by 6/29/2018
DOE O 241.1B Chg 1 (AdminChg)	Scientific and Technical Information Management	All	3/16/2017	No
DOE O 243.1B Admin Chg 1	Records Management Program	All	7/3/2014	No
DOE O 252.1A Admin Chg 1	Technical Standards Program	All	7/3/2014	No
DOE O 410.2 Admin Chg 1	Management of Nuclear Materials	All	10/2/2016	Yes Full implementation by 9/30/2019
DOE O 413.1B	Internal Control Program	All	10/28/2008	No
DOE O 413.2C Chg 1 (MinChg)	Laboratory Directed Research and Development	All	3/28/2019	No
DOE O 413.3B Chg 5 (MinChg)	Program and Project Management for the Acquisition of Capital Assets	All	3/28/2019	No

DOE O 414. 1D Admin Chg 1	Quality Assurance	All	6/3/2013	No
DOE O 415.1	Information Technology Project Management	All	6/29/2017	No
DOE O 420.1C Chg 3 (LtdChg)	Facility Safety	Chapter II (Fire Protection) and Chapter IV (Natural Phenomena Hazards Mitigation)	4/8/20	No
DOE O 420.2C Chg 2 (MinChg)	Safety of Accelerator Facilities	All And Paragraph 3C- Exemptions/Equivalencies	12/2/2011	No
DOE O 435.1 Chg1	Radioactive Waste Management	All	12/2/2011	No
DOE O 436.1	Departmental Sustainability	All	9/12/2012	No
DOE O 440.2C Admin Chg1	Aviation Management and Safety	All	9/1 2/2012	No
DOE O 442.1B	Department of Energy Employee Concerns Program	All	6/20/19	Yes Full implementation by 10/1/2019
DOE O 442.2 Chg 1 (PgChg)	Differing Professional Opinions for Technical Issues involving Environment, Safety, and Health Technical Concerns	All	3/16/2017	No
DOE O 443. 1C	Protection of Human Research Subjects	All	4/8/20	No
DOE O 456.1A	The Safe Handling of Unbound Engineered Nanoparticles	All	3/16/2017	No
DOE O 458.1 Admin Chg3	Radiation Protection of the Public and Environment	All	7/3/2014	No
DOE O 460.1D	Hazardous Materials Packaging and Transportation Safety	All	3/16/2017	Yes Full implementation by 4/1/2018
DOE O 470.3C	Design Basis Threat (DBT) Order	Applicable requirements will be identified once the site protection level has been determined prior to full Implementation.	6/29/2017	Yes Full implementation by 9/30/2022
DOE O 470.4B Chg 2 (MinChg)	Safeguards and Security Program, Attachment I Contractor Requirements	All	6/29/2017	Yes Full implementation by 10/1/201 7
DOE O 470.5	Insider Threat Program	All	10/2/2016	Yes
DOE O 471.3 Admin Chg 1	Identifying and Protecting Official Use Only Information	All	12/2/2014	Full implementation by 10/2/2017 No
DOE M 471.3-1 Admin Chg	Manual for Identifying and Protecting Official Use Only Information	All	12/2/2014	No
DOE O 472.2 Chg 1	Personnel Security	All	10/2/2016	Yes Full implementation by 9/30/2019
DOE O 473.3A Chg 1 (MinChg)	Protection Program Operations	All	3/28/2019	Yes Full implementation by 4/1/2018

DOE O 474.2 Chg 4 (PgChg)	Nuclear Material Control and Accountability	All	3/16/2017	Yes Full implementation by 9/15/2017
DOE O 475.1	Counterintelligence Program	Sections 3a; 3b(1), (3), (7), (8), (17-21); 3d and 4	6/1 /2005	No
DOE O 483.1B Chg 2 (LtdChg)	DOE Cooperative Research and Development Agreements	All	4/8/20	Yes Full implementation bv 7/1/2019
DOE O 484.1 Admin Chg 2	Reimbursable Work for the Department of Homeland Security	All	12/2/2014	No
DOE P 485.1A	Foreign Engagements with DOE National Laboratories	All	4/8/20	No
DOE O 486.1	Department of Energy Foreign Government Talent Recruitment Programs	All	7/24/20 19	Yes Full implementation by 1 2/31 / 2019
DOE O 522.1A	Pricing of Departmental Materials and Services	All In accordance with DOE Order 522.1A, (Contractor Requirements Document), Pricing of Departmental Materials and Services, the prohibition for depreciation and imputed interest charges to non-DOE entities is applicable to DOE owned assets and does not apply to University owned assets deployed for performance of work under this contract.	3/28/2019	No
DOE O 534.1B	Accounting	All	6/1/2005	No
DOE O 550.1 Chg 1 (LtdChg)	Official Travel	All	4/8/20	No

Environment, Safety and Health Standard Set for LBNL (reference only)
42 USC, Chapter 82, 6901 et seq., Resource Conservation and Recovery Act (RCRA), as amended
10 CFR 71, Subparts D,E,F, (71.31 - 71.77),Transportation of radioactive materials-package approval
10 CFR 20, Subpart K, Section 20, 2005, Disposal of Specific Wastes
10 CFR 20, Subpart K, Section 20, 2003, Disposal by Release into Sanitary Sewerage
10 CFR 708, DOE Contractor Employee Protection Program
10 CFR 745, DOE, Protection of Human Subjects
10 CFR 820, Procedural Rules for Department of Energy Nuclear Activities
10 CFR 830, Nuclear Safety Management
10 CFR 835, Occupational Radiation Protection
10 CFR 850, Chronic Beryllium Disease Prevention Program
10 CFR 851, Worker Safety and Health Program, including standards incorporated by reference in 10 CFR 851.23 and 10 CFR 851.27
10 CFR 1008, Records Maintained on Individuals (Privacy Act)
10 CFR 1021, National Environmental Policy Act Implementing Procedures
10 CFR 1022, Compliance with Floodplain / Wetlands Environmental Review Requirements
40 CFR 61, NESHAPs, applicable subparts
40 CFR 260 - 279, Hazardous Waste

ATTACHMENT J.10

APPENDIX J

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ATTACHMENT J.11

APPENDIX K

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ATTACHMENT J.12

APPENDIX L

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ATTACHMENT J.13

APPENDIX M

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ATTACHMENT J.14

APPENDIX N

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ATTACHMENT J.15

APPENDIX O

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ATTACHMENT J.16

APPENDIX P

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