

<b>AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT</b>		1. CONTRACT ID CODE	PAGE OF PAGES 1   2
2. AMENDMENT/MODIFICATION NO. 828	3. EFFECTIVE DATE See Block 16C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
6. ISSUED BY Berkeley Site Office U.S. Department of Energy One Cyclotron Rd., MS90-1023 Berkeley CA 94720	CODE 06008	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) REGENTS OF THE UNIVERSITY OF CALIFORNIA, THE Attn: RICK M. INADA C/O OFFICE OF SPONSORED PROJECTS AND INDUSTRY 1 CYCLOTRON RD MS 971-SP BERKELEY CA 947208047		(x)	9A. AMENDMENT OF SOLICITATION NO.
CODE 078576738			9B. DATED (SEE ITEM 11)
FACILITY CODE		x	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC02-05CH11231
			10B. DATED (SEE ITEM 13) 04/19/2005

**11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS**

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers  is extended,  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 telegram 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 telegram or letter, provided each telegram or letter 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 date, 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 - Clause H.18(g) Application of DOE Contractor Requirements Documents

**E. IMPORTANT:** Contractor  is not,  is required to sign this document and return 1 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)


Tax ID Number: 94-2951741

DUNS Number: 078576738

TAS::89 0222 :: The purpose of this modification change Section J, Appendix I.

Period of Performance: 06/01/2005 to 05/31/2015

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Sandra M. Vinson, Director UCOP - Laboratory Management	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Spencer R. Peterson
15B. CONTRACTOR/OFFEROR  (Signature of person authorized to sign)	15C. DATE SIGNED 03/27/2013
16B. UNITED STATES OF AMERICA Signature on File (Signature of Contracting Officer)	16C. DATE SIGNED 03/27/2013

SF 30 Block 14 Continued:

1. The purpose of this modification is to make the following changes: to Section J, Appendix I which removes the following manuals and implementation documents:
  - a. DOE M 231.1-1A, Environment, Safety and Health Reporting Manual (September 4, 2004)
  - b. DOE M 440.1-1A, DOE Explosives Safety Manual, Attachment 2, Contractor Requirements Document
  - c. LBNL Asbestos Management Program
  - d. Integrated Worker Health and Safety Program for Beryllium Activities at LBNL, 8/1/2000
  - e. LBNL Biosafety Manual
  - f. LBNL Control Procedures for Peroxidizable Compounds
  - g. LBNL Project and Design Management Procedures Manual, RD3.22, Lateral Force Design Criteria (Seismic Safety) Rev 9
  - h. LBNL Fire Protection Program
  - i. LBNL Health and Safety Manual (Except Chapter 21, Radiation Safety), PUB 3000
  - j. US. Department of Health and Human Services (HHS), Public Health Service, Centers for Disease Control and Prevention (CDC) and National Institutes of Health (NIH), Biosafety in Microbiological and Biomedical Laboratories (BMBL), 5<sup>th</sup> Edition, February 2007
2. Attached to the modification is a conformed copy of Section J, Appendix I entitled, "DOE DIRECTIVES/LIST B"
3. All other terms and conditions remain the same.

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

DOE Directives	Effective Date
O 142.3A Unclassified Foreign Visits and Assignments Program	3/7/2011
O 200.1A Information Technology Management, Attachment 1, Contractor Requirements Document, Sections 1, 2, 4, and 5 only	4/3/2009
O 205.1B Department of Energy Cyber Security Management	5/16/2011
P 205.1 Departmental Cyber Security Management Policy	08/09/2001
O 210.2A DOE Corporate Operating Experience Program, Attachment 1, Contractor Requirements Document	04/08/2011
O 221.1A Reporting Fraud, Waste, and Abuse To The Office of Inspector General	5/7/2008
O 221.2A Cooperation With The Office of Inspector General	3/7/2011
O 227.1 Independent Oversight Program	04/20/2012
O 241.1B Scientific and Technical Information Management	12/13/2010
O 243.1 Records Management Program, Attachment 2, Contractor Requirements Document except for Sections 1.a.(2)(3)(4), 1.k., 2, and 4	11/26/2007
O 252.1A Technical Standards Program	2/23/2011
O 350.1, Chg. 3 Contractor Human Resource Management Programs, Only Chapter VII DOE Contractor Risk Management and Liability Program	3/7/2011
O 350.2B Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C. Area	5/31/2011
O 413.1B Internal Control Program	10/28/2008
O 413.2B Admin Chg. 1 Laboratory Directed Research and Development	4/19/2006
O 413.3B Program and Project Management for the Acquisition of Capital Assets	3/7/2011
O 430.1B, Chg. 2 Real Property Asset Management	9/24/2003
O 436.1 Departmental Sustainability	5/02/2011
O 470.4B, Safeguards and Security Program, Attachment 1 Contractor Requirements Document	7/26/2011
O 471.3 Admin Chg 1, Identifying and Protecting Official Use Only Information, Contractor Requirements Document, Sections 1, 5 & 6 only	6/3/2003
M 471.3-1, Admin Chg , Manual for Identifying and Protecting Official Use Only Information (Sections 2 and 9)	6/3/2003
O 473.3 Protection Program Operations	1/29/2011
O 474.2 Admin Chg 1, Nuclear Material Control and Accountability, Attachment 1 Contractor Requirements Document	6/27/2011
O 475.1 Counterintelligence Program (Sections 3a; 3b(1), (3), (7), (8), (17-21); 3d and 4)	6/1/2005
O 482.1 DOE Facilities Technology Partnering Programs	2/20/2001
M 483.1-1 DOE Cooperative Research and Developments Agreements Manual	2/20/2001
O 483.1 DOE Cooperative Research and Developments Agreements	2/20/2001
O 484.1, Admin Chg 1, Reimbursable Work for the Department of Homeland Security	8/17/2006
O 522.1 Pricing of Departmental Materials and Services	11/3/2004
O 534.1B Accounting	1/23/2003
O 551.1D Official Foreign Travel	4/20/2012
O 580.1A, Department of Energy Personal Property Management Program	TBD
O 1450.4 Consensual Listening-In to or Recording Telephone/Radio Conversations	12/23/2009

<b>No.</b>	<b>Environment, Safety and Health Standard Set for LBNL</b>
1	07 USC, Chapter 6, 136 et seq., FIFRA (Federal Insecticide, and Rodenticide Act)
2	07 USC Chapter 54, 2131-2157, Animal Welfare Act (Transportation, Sale, and Handling of Certain Animals)
3	15 USC, Chapter 53, 2601-2692, Toxic Substances Control Act
4	16 USC, Chapter 1, Subchapter LXI, Sections 432 and 433, American Antiquities Act
5	16 USC, Chapter 1A, Subchapter I, Section 469(a)(1) and Subchapter II, Section 470 et seq., National Historic Preservation Act
6	16 USC, Chapter 1B, sections 470aa and ee, Archeological Preservation Act
7	16 USC, Chapter 1A, Subchapter II, Part A, 470 h-2 Historic Properties Owned or Controlled by Federal Agencies
8	16 USC, Chapter 5a 668 et seq. - Eagle Protection Act and Chapter 7,703 et seq. - Migratory Bird Treaty Act
9	16 USC, Chapter 35, 1531 et seq., Federal Endangered Species Act
10	25 USC, Chapter 32, 3001 et seq., Native American Graves Protection and Repatriation
11	33 USC, Chapter 26, 1311 et seq., Clean Water Act
12	42 USC, Chapter 82, 6901 et seq., Resource Conservation and Recovery Act (RCRA), as amended
13	42 USC, Chapter 85, 7401 et seq., Clean Air Act (CAA), as amended
14	42 USC, Chapter 103, Section 9601 et seq., CERCLA, as amended
15	42 USC, Chapter 116, 11021-11023. Emergency Planning and Community Right to Know
16	42 USC, Chapter 133, 13101 – 13109 Pollution Prevention Act of 1990
17	49 USC, Chapter 51, 5101 et seq., Hazardous Materials Transportation
18	07 CFR 331, Possession, Use, and Transfer of Select Agents and Toxins
19	07 CFR 355, Endangered Species, Regulations Concerning Terrestrial Plants
20	09 CFR, Chapter I, Animal and Plant Inspection Service, Department of Agriculture
21	09 CFR, 121, Possession, Use, and Transfer of Select Agents and Toxins
22	10 CFR 71, Subparts D,E,F, (71.31 - 71.77),Transportation of radioactive materials-package approval
23	10 CFR 20, Subpart K, Section 20, 2005, Disposal of Specific Wastes
24	10 CFR 20, Subpart K, Section 20, 2003, Disposal by Release into Sanitary Sewerage
25	10 CFR 708, DOE Contractor Employee Protection Program
26	10 CFR 745, DOE, Protection of Human Subjects
27	10 CFR 820, Procedural Rules for Department of Energy Nuclear Activities
28	10 CFR 830, Nuclear Safety Management
29	10 CFR 835, Occupational Radiation Protection
30	10 CFR 850 Chronic Beryllium Disease Prevention Program
31	10 CFR 851, Worker Safety and Health Program

32	<p>The following standards are incorporated by reference <sup>1</sup> in 10 CFR 851.</p> <p>10 CFR 850, Chronic Beryllium Disease Prevention Program</p> <p>29 CFR 1904.4 - 1904.11, 1904.29 - 1904.33, 1904.44, and 1904.46, Recording and Reporting Occupational Injuries and Illnesses</p> <p>29 CFR 1910, Occupational Safety and Health Standards, excluding 29 CFR 1910.1096, Ionizing Radiation</p> <p>29 CFR 1915, Shipyard Employment</p> <p>29 CFR 1917, Marine Terminals</p> <p>29 CFR 1918, Safety and Health Regulations for Longshoring</p> <p>29 CFR 1926, Safety and Health Regulations for Construction</p> <p>29 CFR 1928, Occupational Safety and Health Standards for Agriculture</p> <p>ACGIH Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices (2005) when the ACGIH Threshold Limit Values are lower (more protective) than permissible exposure limits in 29 CFR 1910. When the ACGIH TLVs are used as exposure limits, contractors must nonetheless comply with the other provisions of any applicable expanded health standard found in 29 CFR 1910.</p>
33	<p>ANSI Z88.2, American National Standard for Respiratory Protection (1992)</p> <p>ANSI Z136.1, Safe Use of Lasers (2000)</p> <p>ANSI Z49.1, Safety In Welding, Cutting, and Allied Processes, Sections 4.3 and E4.3 (1999)</p> <p>NFPA 70, National Electrical Code (2005)</p> <p>NFPA 70E, Standard for Electrical Safety in the Workplace (2004)</p> <p>ASME Boilers and Pressure Vessel Code, Sections I - XII including applicable Code Cases (2004)</p> <p>ASME B31, Code for Pressure Piping as follows:</p> <p>B31.1 (2001), Power Piping</p> <p>B31.1a (2002), Addenda to ASME B31.1 (2001)</p> <p>B31.2, Fuel Gas Piping (1968)</p> <p>B31.3, Process Piping (2002)</p> <p>B31.4, Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids (2002)</p> <p>B31.5 (2001), Refrigeration Piping and Heat Transfer Components</p> <p>B31. Sa (2004), Addenda to ASME B31. 5 (2001)</p> <p>B31.8, Gas Transmission and Distribution Piping Systems (2003)</p> <p>B31.8S, Managing System Integrity of Gas Pipelines (2001)</p> <p>B31. 9, Building Services Piping (1996)</p> <p>B31.11, Slurry Transportation Piping Systems (2002)</p> <p>B31 G, Manual for Determining Remaining Strength of Corroded Pipelines (1991)</p>
34	10 CFR 1008, Records Maintained on Individuals (Privacy Act)
35	10 CFR 1021, National Environmental Policy Act Implementing Procedures
36	10 CFR 1022, Compliance with Floodplain/Wetlands Environmental Review Requirements
37	21 CFR, Chapter II, Drug Enforcement Administration, Department of Justice, Controlled Substances
38	21 CFR 361.1, Radioactive Drugs for Certain Research Uses
39	29 CFR 1630.13, Prohibited Medical Examinations and Inquiries
40	29 CFR 1630.14, Medical Examinations and Inquiries Specifically Permitted
41	<p>36 CFR, National Park Service, Department of the Interior, Parts:</p> <p>63 - Inclusion in National Register</p> <p>65 - Historic Landmarks</p> <p>68 - Preservation of Architectural Integrity</p> <p>79 - Federally Owned Archeological Collections</p>

<sup>1</sup> The version of a standard referenced in 10 CFR 851 may become outdated. LBNL monitors health and safety standards for changes, and as appropriate will list current versions of standards referenced in 10 CFR 851 in its "Sufficient" Work Smart Standards. To the extent that there may be differences between versions, the 10 CFR 851- enforceable versions are those listed below in these "Necessary" Work Smart Standards.

42	40 CFR, Air Programs, Parts: 50 - National Primary and Secondary Ambient Air Quality Standards 54 - Prior Notice of Citizen Suits 60 - Standards of Performance, New Stationary Sources 61 - NESHAPs, applicable subparts 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories 68 - Chemical Accident Prevention Provisions 82 - Protection of Stratospheric Ozone
43	40 CFR 110, Discharge of Oil
44	40 CFR 112, Oil Pollution Prevention
45	40 CFR 116, Designation of Hazardous Substances
46	40 CFR 117, Determination of Reportable Quantities for Hazardous Substances
47	40 CFR 122, NPDES System
48	40 CFR 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants
49	40 CFR 246, Source Separation for Materials Recovery Guidelines
50	40 CFR 247, Comprehensive Procurement Guideline for Products Containing Recovered Materials (Federal Agency Recycling Programs)
51	40 CFR 260 - 279, Hazardous Waste
52	40 CFR 280, Underground Storage Tanks
53	40 CFR 300,(CERCLA) National Oil and Hazardous Substances Pollution Contingency Plan
54	40 CFR 302, (CERCLA) Designation, Reportable Quantities, and Notification
55	40 CFR 355, Emergency Planning and Notification (SARA Title III)
56	40 CFR 370, Hazardous Chemical Reporting, Community Right To Know
57	40 CFR 372, Toxic Chemical Release Reporting, Community Right To Know
58	40 CFR 401, Subpart N, Effluent Guidelines and Standards, General Provisions
59	40 CFR 403, Subpart N, General Pretreatment Regulations for Existing and New Sources of Pollution
60	40 CFR 433, Metal Finishing Point Source Category
61	40 CFR 720, Premanufacture Notification
62	40 CFR 761, Polychlorinated Biphenyls (PCB)
63	40 CFR 763, Subpart E, U. S. EPA Asbestos-Containing Materials in Schools, Asbestos Hazard Emergency Response Act (AHERA). Reference to asbestos clearance sample limit of less than 70 structures per square millimeter only. Does not include sampling protocol or procedures.
64	42 CFR 73, Select Agents and Toxins
65	43 CFR, Part 3 - Preservation of American Antiquities, and Part 7 - Protection of Archeological Resources
66	43 CFR, Part 10 - Native American Graves Protection and Repatriation Regulations
67	45 CFR 46, DHHS, Protection of Human Subjects
68	48 CFR 936.602-70(a)(8), Architect - Engineer Services DOE Selection Criteria, Construction and Architect - Engineer (A-E) contracts
69	49 CFR 40, Procedures for Workplace Drug Testing Programs
70	49 CFR, Subtitle B, Other Regulations Relating to Transportation, Chapter I, Research And Special Programs Administration, Department Of Transportation
71	49 CFR 382, Controlled Substances and Alcohol Use and Testing
72	49 CFR 397, Subpart D, 101 and 103, Routing of Class 7 Radioactive Materials
73	50 CFR 17 and 222, Endangered Species Act Rules

74	50 CFR 402, Endangered Species Act
75	California Health and Safety Code, Division 20, Chapter 6.95, Article 1, Hazardous Materials Release Response Plans and Inventory
76	California Health and Safety Code, Division 104, Part 7 (Retail Food Facilities) Chapter 4 (Retail Food Practices-California Uniform Retail Food Facilities Law [CURFFL])
77	California Public Resources Code, Division 13, California Environmental Quality Act (CEQA), and 14 CCR, Division 6, Chapter 3, Guidelines for Implementation of the California Environmental Quality Act
78	08 CCR, Division 1, Chapter 4, Subchapter 1, Unfired Pressure Vessel Safety Orders
79	08 CCR, Division 1, Chapter 4, Subchapter 4, Construction Safety Orders (for all construction safety unless 29 CFR 1926 is more strict)
80	08 CCR, Division 1, Chapter 4, Subchapter 7, General Industry Safety Orders, Group 3, General Plant Equipment Procedures and Special Operations, Article 12, Tree Work, Maintenance or Removal, 3427. Safe Work Procedures
81	13 CCR Division 2, Chapter 6, Article 3, 1160 - 1167, for activities relating to the offering of hazardous materials for transportation by commercial carriers
82	17 CCR, Division 1, Chapter 5, Subchapter 4, Group 3, Article 6, Special Requirements for Radiographic Operations 30330-30337
83	17 CCR Division 3, Air Resources (stationary and mobile sources)
84	19 CCR, Division 2, Chapter 4, Hazardous Material Release Reporting, Inventory and Response Plans
85	19 CCR Division 2, Chapter 4.5, California Accidental Release Prevention Program (Cal ARP)
86	22 CCR, Division 2, Subdivision 1, Chapter 3, 12000 (c), Chemicals Known to the State to Cause Reproductive Toxicity (consensus listing solely referenced to define reproductive toxins)
87	22 CCR Division 4.5, Chapter 10, Article 2, 66260.1 et seq., Hazardous Waste Regulation
88	CCR Title 23 CCR Division 3, Chapter 9, Waste Discharge Reports and Requirements, and Chapter 9.2, Sections 2250, 2251, 2260, Reportable Quantities and Reporting Requirements, discharges of non-AEA materials to waters of the state
89	23 CCR Division 3, Chapter 16, Underground Storage Tank Regulations
90	24 CCR, Building Standards (for facilities design, only), Parts: .2 - California Building Code (for fire protection-life safety) .3 - California Electrical Code .4 - California Mechanical Code .5 - California Plumbing Code .6 - California Energy Code .7 - California Elevator Safety Construction Code .9 - California Fire Code (for fire protection-life safety) .12 - California Reference Standards Code
91	California Fish and Game Code, 1601-1616, Floodplains and Wetlands
92	California Health and Safety Code, Division 5, sections 5410, 5411, and 5411.5, Reporting discharge of sewage or other waste to waters of the state
93	California Health and Safety Code, Division 20, Chapter 6.5, Hazardous Waste Control
94	California Health and Safety Code, Division 20, Chapter 6.67, Aboveground Storage of Petroleum, to the extent involving discharges or potential discharges to waters of the state
95	California Health and Safety Code, Division 20, Chapter 6.7, Underground Storage of Hazardous Substances
96	California Health and Safety Code, Division 20, Chapter 6.95, Article 2, Hazardous Materials Management
97	California Health and Safety Code, Division 26, Air Resources, California Clean Air Act
98	California Health and Safety Code, Division 104, Part 14, 117600-118360 California Medical Waste Management Act
99	California Labor Code, Division 4, Workers' Compensation and Insurance



100	California Public Resources Code, Division 30,40000 et seq., California Integrated Waste Management Act of 1989
101	California Vehicle Code, Division 11, Rules of the Road
102	California Water Code, Division 7, Water Quality, to the extent involving discharges or potential discharges of non-AEA materials to waters of the state
103	SWRCB Water Quality Order #2006-003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems
104	SWRCB Water Quality Order #97-003-DWQ, Statewide General Permit Requirements for Stormwater Discharges Associated with Industrial Activity
105	SWRCB Water Quality Order #99-008-DWQ, Statewide General Permit Requirements for Construction Stormwater Discharges
106	DOE O 150.1, Continuity Programs, Attachment 1 Contractor Requirements Document
107	DOE O 151.1C, Comprehensive Emergency Management System, Attachment 2, Contractor Requirements Document
108	DOE O 225.1B, Accident Investigations (Cooperation with DOE investigation only)
109	DOE O 231.1B, Environment, Safety and Health Reporting
110	DOE O 232.2 Occurrence Reporting and Processing of Operations Information
111	DOE O 414.1D, Quality Assurance
112	DOE O 420.1B, Facility Safety, Attachment 2, Contractor Requirements Document, Chapter II (Fire Protection) and Chapter IV (Natural Phenomena Hazards Mitigation)
113	DOE O 420.2C, Safety of Accelerator Facilities, Paragraph 3C- Exemptions/Equivalencies, and Contractor Requirements Document
114	DOE O 435.1, Chg 1, Radioactive Waste Management, Attachment 1, Contractor Requirements Document
115	<p>DOE M 435.1-1 Admin Chg 2, Radioactive Waste Management Manual, applicable chapters and sections listed below:</p> <p>Chapter I- General Requirements and Responsibilities: All sections except that DOE orders incorporated by reference are applicable only to the extent they were adopted site-wide in the Berkeley Lab Necessary and Sufficient Set of standards.</p> <p>Chapter III - Transuranic Waste Requirements sections: A and B, D except for (4) relative to disposal facility requirements, F, G, H and I, (J, K, O, and P only when an off-site option for Berkeley Lab TRU waste has been identified by DOE and the off-site facility has established a WAC applicable to Berkeley Lab), L, N(1), N(2), N(3), Q(1), Q(2) except that ventilation exhaust monitoring is limited to MW6 and MW7 as specified in the HWHF SAD</p> <p>Chapter IV - Low Level Waste Requirements sections: A, B, D, and F, G except for 1(d) relative to disposal facility requirements, H(1), H(2), I, J, K and L, M, N, N(2), O and R(1) except that ventilation exhaust monitoring is limited to MW6 and MW7 as specified in the HWHF SAD</p>
116	DOE O 440.2C Admin Chg 1, Aviation Management and Safety, Contractor Requirements Document
117	DOE O 442.1A Department of Energy Employee Concerns Program, Attachment 1, Contractor Requirements Document
118	DOE O 443.1B, Protection of Human Subjects, Attachment 1, Contractor Requirements Document
119	DOE O 456.1 The Safe Handling of Unbound Engineered Nanoparticles
120	DOE O 458.1 Change 2, Radiation Protection of the Public and Environment
121	DOE O 460.1C, - Packaging and Transportation Safety, Attachment 1, Contractor Requirements Document sections: 1, 2, 3, and 6.b

122	DOE-EM-STD-5502-94 Hazard Baseline Documentation
123	ACGIH Ventilation Manual (Applicable Sections)
124	ANSI N43.2, Sections 6.2.1.1, 6.2.1.2, 6.2.1.3, 6.2.2.1.4, 6.2.2.3, 6.2.2.3.1, 6.2.2.3.3, 6.2.2.3.4, 6.2.2.3.5, 7.5, 8.1
125	ANSI N43.3, Definitions, Sections 4.1,5.1.1,5.1.2,5.1.4,5.1.6.4,5.1.5.2,5.1.5,7.9.1,9.2,9.4, Annex C
126	ANSI Z 133.1-2000, American National Standard for Arboricultural Operations - Pruning, Repairing, Maintaining, and Removing Trees, and Cutting Brush - Safety Requirements, Sections 6.7.6 - 6.7.6.11
127	ANSI Z136.2-1997, American National Standard for the Safe Use of Optical Fiber Communication Systems Utilizing Laser Diode and LED Sources
128	ANSI Z358.1-2004, Standard for Emergency Eyewash and Shower Equipment, (Applicable sections). Note: (1) Testing frequency to be quarterly, not weekly; (2) LBNL has NOT adopted provisions in the standard dealing with the temperature of the delivered flushing fluid.
129	ASME B30.2, Overhead and Gantry Cranes (Top Running Bridge, Single or Multiple Girder, Top Running Trolley Hoist) (2001)
130	ASME B30.17, Overhead and Gantry Cranes (Top Running Bridge, Single Girder, Underhung Hoist) (2003)
131	ASME B30.5, Mobile and Locomotive Cranes (2004)
132	ASME B30.9, Slings (2003)
133	ASME B30.10, Hooks (1999)
134	ASME B30.11, Monorails and Underhung Cranes (2004)
135	ASME B30.16, Overhead Hoists (Underhung) (2003)
136	ASME B30.20, Below-the-Hook Lifting Devices (2003)
137	ASME B30.21, Manually Lever Operated Hoists (1999)
138	ASME B56.1, Low Lift and High Lift Trucks (2004)
139	ASME B56.6, Rough Terrain Forklift Trucks (2002)
140	ASME Boiler and Pressure Vessel Code (for non-research applications)
141	Compressed Gas Association (CGA) Pamphlet S - 1.1 and 1.2, Pressure Relief
142	National Fire Protection Association, Applicable National Fire Codes
143	BAAQMD Regulations 1 through 12, BAAQMD Manual of Procedures
144	Title 10, Central Contra Costa Sanitary District Code, Source Control (Pre-treatment)
145	City of Berkeley Municipal Code, Title 15, Chapters 15.04, 15.08, and 15.12, Hazardous Materials Management, to the extent sovereign immunity has been waived by federal act
146	City of Berkeley Municipal Code 16.12.30-32-34, Permits and deposits for well construction, installation, destruction or modification and for soil boring/probe/grab and ground water sampling (except AEA materials)
147	City of Berkeley Municipal Code 17.20, Reduction of Storm Water Pollution (except discharges of AEA materials)
148	City of Berkeley Ordinance 6715, provision prohibiting transportation on specified streets at which Purge Chamber Openings are located
149	City of Berkeley Noise Ordinance, Chapter 13.40 "Community Noise". Limit to referenced noise levels only
150	East Bay Municipal Utility District (EBMUD) Ordinance No. 311A -03, (except AEA discharges). NOTE: Berkeley Lab annually accepts radiation discharge standards voluntarily
151	Oakland Municipal Ordinance 12024, City of Oakland Creek Protection, Storm Water Management, and Discharge Control Ordinance, (except discharges of AEA materials)
152	Oakland Municipal Code, 8.12.020, Adopting California Health and Safety Code Division 20, Chapter 6.95, Article 2, to the extent involving prevention of accidental releases to air, and to the extent sovereign immunity has been waived by federal act
153	City of Oakland Planning Code, Title 17, Performance Standards, Chapter 17.120.050, limited to referenced noise levels in Tables A, B, and C

154	California Emergency Services Act 2006, Article 9.5, Disaster Preparedness, Subsection 8607, Standardized Emergency Management System, where applicable
155	Homeland Security Presidential Directive (HSPD)-5: National Incident Management System
156	California Water Code, 13800 - 13806, State Water Resources Control Board requirement for adoption of Model Well Ordinance by state and local agencies (as applicable at LBNL except AEA materials)
157	United States Housing and Urban Development (HUD), "Guidelines for the Evaluation and Control of Lead-Based Paint Hazards in Housing," June 1995 <u>Chapter 12</u> (Paint Removal Methods); Section IV, A-E; and Section V, C. (Note: Excluding references to other HUD Guideline Chapters and work site preparation levels) <u>Chapter 14</u> (Cleaning). (Note: Excluding references to other HUD Guideline Chapters and reference to containment) <u>Chapter 15</u> (Clearance). (Note: Excluding Section IV, A-C and Table 15.1; Section V; and Section IX). However, "clearing" work sites following lead related work and applying prescribed clearance levels to work at the Lab will be implemented at the discretion of the Berkeley Lab.
158	International Air Transportation Association (IATA) Dangerous Goods Regulations

**END OF ES&H STANDARDS FOR LBNL**