

**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 1 (MinChg)	Unclassified Foreign Visits and Assignments Program	All	6/29/2017	No
DOE O 150.1A	Continuity Programs	All	7/3/2014	No
DOE O 151.1D	Comprehensive Emergency Management System	All	3/16/2017	Yes Full implementation by 8/11/2017
DOE O 200.1A Chg 1 (MinChg)	Information Technology Management	All	6/29/2017	No
DOE O 205.1B Chg 3	Department of Energy Cyber Security Management	All	7/3/2014	No
DOE O 206.1	Department of Energy Privacy Program	All See Appendix P for Advanced Understanding Regarding Implementation	1/15/2014	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 See Appendix P for Advanced Understanding Regarding Implementation	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	Occurrence Reporting and Processing of Operations Information	All	6/29/2017	Yes Full implementation by 6/29/2018
DOE O 241.1B Chg 1 (Admin Chg)	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 350.2B	Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C. Area	All	12/2/2011	No
DOE O 410.2, Admin Chg 1	Management of Nuclear Materials	All	10/2/2016	Yes Full implementation by 10/2/2017
DOE O 413.1B	Internal Control Program	All	10/28/2008	No
DOE O 413.2C	Laboratory Directed Research and Development	All	12/17/2015	No

DOE O 413.3B Chg 3 (Pg Chg)	Program and Project Management for the Acquisition of Capital Assets	All	3/16/2017	Yes Full implementation contingent upon DOE updating PARS II
DOE O 414.1D Admin Chg 1	Quality Assurance	All	6/3/2013	No
DOE O 415.1 Chg 2 (MinChg)	Information Technology Project Management	All	6/29/2017	No
DOE O 420.IC,	Facility Safety	Chapter II (Fire Protection) and Chapter IV (Natural Phenomena Hazards Mitigation)	8/13/2013	No
DOE O 420.2C	Safety of Accelerator Facilities	All And Paragraph 3C-Exemptions/Equivalencies	12/2/2011	No
DOE O 435.1 Chg 1	Radioactive Waste Management,	All	12/2/2011	No

<p>DOE M 435.1-1 Admin Chg 2</p>	<p>Radioactive Waste Management Manual</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, B, D except for (4) relative to disposal facility requirements, F, G, H, 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), and 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; F; G except for 1(d) relative to disposal facility requirements; H; I; J; K; L; M; N except for N(2) storage limit; O; and R(1) except that ventilation exhaust monitoring is limited to MW6 and MW7 as specified in the HWHF SAD</p>	<p>12/2/2011</p>	<p>No</p>
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DOE O 436.1	Departmental Sustainability	All	9/12/2012	No
DOE O 440.2C Admin Chg 1	Aviation Management and Safety	All	9/12/2012	No
DOE O 442.1A	Department of Energy Employee Concerns Program	All	3/28/2007	No
DOE O 442.2 Chg 1 (Pg Chg)	Differing Professional Opinions for Technical Issues involving Environment, Safety, and Health Technical Concerns	All	3/16/2017	No
DOE O 443.1B Chg 1 (Pg Chg)	Protection of Human Subjects	All	3/16/2017	No
DOE O 456.1A	The Safe Handling of Unbound Engineered Nanoparticles	All	3/16/2017	No
DOE O 458.1 Admin Chg 3	Radiation Protection of the Public and Environment	All	7/3/2014	No
DOE O 460.ID	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 12/31/2018
DOE O 470.4B Chg 2 (MinChg)	Safeguards and Security Program, Attachment 1 Contractor Requirements	All	6/29/2017	Yes Full implementation by 10/1/2017
DOE O 470.5	Insider Threat Program	All	10/2/2016	Yes Full implementation by 10/2/2017
DOE O 471.3 Admin Chg 1	Identifying and Protecting Official Use Only Information	All	12/2/2014	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 10/2/2017
DOE O 473.3A	Protection Program Operations	All	3/16/2017	Yes Full implementation by 4/1/2018
DOE O 474.2 Chg 4 (Pg Chg)	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	DOE Cooperative Research and Development Agreements	All	6/29/2017	No
DOE O 484.1 Admin Chg 2	Reimbursable Work for the Department of Homeland Security	All	12/2/2014	No
DOE P 485.1	Foreign Engagements	All	6/29/2017	No
DOE O 522.1	Pricing of Departmental Materials and Services	All See Appendix P for Advanced Understanding regarding Implementation	12/2/2011	No
DOE O 534.1B	Accounting	All	6/1/2005	No

DOE O 551.1D Chg 2 (Minor Revision)	Official Foreign Travel	All	3/16/2017	No
DOE O 580.1A Admin Chg 1	Department of Energy Personal Property Management Program	All	7/3/2014	No

<b>Environment, Safety and Health Standard Set for LBNL (reference only)</b>	
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	