

## **APPENDIX I**

### **DOE Directives/List B**

**Applicable to the Operations of  
Brookhaven National Laboratory**

There is no List A to this Appendix.

List B to this Appendix contains the following:

Part I: "Directives List"

This section contains a list of Directives that are considered by DOE as applicable to the BNL contract.

### Appendix I - Part I

#### DOE DIRECTIVES LIST

DOE Directives may be found at the following address: <http://www.directives.doe.gov>

ISSUED	TYPE	NUMBER	THROUGH CHANGE	TITLE  Includes Compliance Notes as Necessary
9/4/2008	Manual	142.2-1	Chg. 1 (Admin Chg.) 6/27/2013	Manual for Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
12/15/2006	Order	142.2A	Chg. 1 (Admin Chg.) 6/27/2013	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency
1/15/2021	Order	142.3B	Chg. 1 (LtdChg) 3/2/2022	Unclassified Foreign National Access Program
12/21/2021	Order	150.1B		Continuity Programs
10/28/2024	Order	151.1E		Comprehensive Emergency Management System
11/17/2022	Order	153.1A		Departmental Nuclear Emergency Support Team Capabilities
12/23/2008	Order	200.1A	Chg.2 (LtdChg) 8/11/2023	Information Technology Management
4/30/2024	Order	205.1D		Department of Energy Cybersecurity Program
1/19/2024	Order	206.1A		Department of Energy Privacy Program
2/19/2013	Order	206.2	Chg. 2 (LtdChg) 10/28/2024	Identity, Credential and Access Management (ICAM)
4/8/2011	Order	210.2A		DOE Corporate Operating Experience Program
9/27/2016	Order	221.1B		Reporting Fraud, Waste, and Abuse to the Office of Inspector General
2/25/2008	Order	221.2A		Cooperation with the Office of Inspector General
3/4/2011	Order	225.1B		Accident Investigations
12/21/2015	Order	227.1A	Chg. 1 (Admin Chg.) 1/21/2020	Independent Oversight Program
6/27/2011	Order	231.1B	Chg. 1 (Admin Chg.) 11/28/2012	Environment, Safety and Health Reporting
1/17/2017	Order	232.2A	Chg.1 (Minor Chg.) 10/04/2019	Occurrence Reporting and Processing of Operations Information

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12/13/2010	Order	241.1B	Chg. 1 (Admin Chg) 4/26/2016	Scientific and Technical Information Management
2/7/2022	Order	243.1C		Records Management Program
2/23/2011	Order	252.1A	Chg. 2 (Admin Chg.) 9/30/2024	Technical Standards Program
11/19/2009	Order	313.1		Management and Funding of the Department's Overseas Presence
10/18/2007	Order	341.1A Parts: 1.(a-b) 2.a(1-3) 2.a(4)(a-h)		Federal Employee Health Services
9/30/1996	Order	350.1	Chg. 7 (LtdChg.) 2/19/2020	Contractor Human Resource Management Programs
8/17/2009	Order	410.2	Chg. 1 (Admin Chg.) 4/10/2014	Management of Nuclear Materials
1/4/2017	Order	411.2		Scientific Integrity
1/19/2024	Policy	411.2B	Chg. 1 (Admin Chg.) 01/30/2025	DOE Scientific Integrity Policy
10/22/2015	Order	413.2C	Chg.1 (Minor Chg.) 8/2/2018	Laboratory Directed Research and Development
11/29/2010	Order	413.3B	Chg. 7 (LtdChg.) 6/21/2023	Program and Project Management for the Acquisition of Capital Assets
4/25/2011	Order	414.1D	Chg. 2 (LtdChg.) 9/15/2020	Quality Assurance
12/3/2012	Order	415.1	Chg. 2 (Minor Chg.) 1/17/2017	Information Technology Project Management

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12/4/2012	Order	420.1C	Chg.3 (LtdChg.) 11/14/2019	Facility Safety <b>Compliance Note:</b> CRD Chapters 1, 3, and 5 are applicable only to Hazard Category 1, 2, or 3 nuclear facilities. The requirements of DOE O 420. 1C Chg. 2 CRD Chapters 2 (Fire Protection) and 4 (Natural Phenomena Hazards Mitigation) apply to all facilities.
7/21/2011	Order	420.2C		Safety of Accelerator Facilities <b>Compliance Note:</b> Radionuclide Research and Production Laboratory (RRPL) only during the period of the approved exemption.
9/9/2022	Order	420.2D		Safety of Accelerators <b>Compliance Note:</b> Not applicable to the Radionuclide Research and Production Laboratory (RRPL).
6/29/2010	Order	422.1	Chg. 4 (LtdChg.) 2/3/2022	Conduct of Operations <b>Compliance Note:</b> DOE Order 422.1 Chg. 4 and the CRD are applicable to Hazard Category 1, 2, or 3 nuclear facilities and the following BNL departments/divisions/facilities, including all operating groups within each: Collider Accelerator Department (all facilities), Energy and Utilities Division (Central Steam Facility, Central Chilled Water facility, The Potable Water Treatment Facility and the Waste Water Treatment Facility), the NSLS II Facility, the Waste Management Facility, the Accelerator Test Facility, Isotope Research and Production Department (all facilities; RRPL requires the detailed attributes of DOE O 422.1 Appendix A).
4/16/2010	Order	425.1D	Chg 2 (MinChg) 10/04/2019	Verification of Readiness to Start Up or Restart Nuclear Facilities <b>Compliance Note:</b> Order is only applicable to Hazard Category 1, 2, or 3 nuclear facilities.
1/29/2024	Order	426.2A	Chg 1 (Admin Chg) 5/30/2024	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities <b>Compliance Note:</b> Order is only applicable to Hazard Category 1, 2, or 3 nuclear facilities.
4/21/2010	Order	433.1B	Chg 1 (Admin Chg) 3/12/2013	Maintenance Management Program for DOE Nuclear Facilities <b>Compliance Note:</b> Order is only applicable to Hazard Category 1, 2, or 3 nuclear facilities.
11/25/2016	Policy	434.1B		Conduct and Approval of Select Agent and Toxin Work at Department of Energy Sites
7/9/1999	Order	435.1	Chg. 2 (Admin Chg.) 1/11/2021	Radioactive Waste Management

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7/9/1999	Manual	435.1-1	Chg. 3 (LtdChg.) 1/11/2021	Radioactive Waste Management Manual
9/23/2024	Order	437.1A		Bridge and Tunnel Management
6/15/2011	Order	440.2C	Chg. 3 (LtdChg.) 3/21/2023	Aviation Management and Safety
3/7/2008	Manual	441.1-1	Chg. 1 (Admin Chg.) 02/24/2016	Nuclear Material Packaging Manual
1/31/2019	Order	442.1B		Department of Energy Employee Concerns Program
7/29/2011	Order	442.2	Chg.1 (Pg.Chg.) 10/5/2016	Differing Professional Opinions for Technical Issues Involving Environment, Safety and Health
11/26/2019	Order	443.1C		Protection of Human Research Subjects
7/21/2011	Order	452.8		Control of Nuclear Weapon Data
7/15/2016	Order	456.1A		The Safe Handling of Unbound Engineered Nanoparticles
2/11/2011	Order	458.1	Chg. 5 (Admin Chg.) 01/30/2025	Radiation Protection of the Public and the Environment
12/20/2016	Order	460.1D	Chg. 1 (LtdChg.) 6/10/2022	Hazardous Materials Packaging and Transportation Safety
6/10/2022	Order	460.2B		Departmental Materials Transportation Management
11/23/2016	Order	470.3C	Chg. 2 (LtdChg.) 2/23/2024	Design Basis Threat (DBT)
7/21/2011	Order	470.4B	Chg. 3 (LtdChg.) 9/23/2021	Safeguards and Security Program
6/2/2014	Order	470.5		Insider Threat Program

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9/2/2015	Order	470.6	Chg.1 (Minor Chg.) 1/11/2017	Technical Security Program
3/1/2010	Order	471.1B		Identification and Protection of Unclassified Controlled Nuclear Information
6/20/2011	Order	471.6	Chg. 4 (LtdChg.) 8/22/2023	Information Security
2/3/2022	Order	471.7		Controlled Unclassified Information
6/10/2022	Order	472.2A	Chg. 1 (LtdChg) 10/28/2024	Personnel Security
8/30/2021	Order	473.1A		Physical Protection Program
8/30/2021	Order	473.2A		Protection Force Operations
2/7/2023	Order	474.2A	Chg. 1 (Admin Chg.) 04/16/2024	Nuclear Material Control and Accountability
12/10/2004	Order	475.1		Counterintelligence Program
10/3/2014	Order	475.2B		Identifying Classified Information
12/20/2018	Order	481.1E	Chg. 1 (LtdChg.) 12/13/2019	Strategic Partnership Projects [Formerly Known as Work for Others (Non-Department of Energy Funded Work)]
12/20/2016	Order	483.1B	Chg. 2 (LtdChg.) 12/13/2019	DOE Cooperative Research and Development Agreements
8/17/2006	Order	484.1	Chg. 3 (LtdChg.) 3/21/2023	Reimbursable Work for the Department of Homeland Security
12/13/2019	Policy	485.1A		Foreign Engagements with DOE National Laboratories
9/4/2020	Order	486.1A		Foreign Government Sponsored or Affiliated Activities
1/7/2021	Order	520.1B	Chg 1 (LtdChg) 11/11/2022	Financial Management and Chief Financial Officer Responsibilities
8/2/2018	Order	522.1A		Pricing of Departmental Materials and Services

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5/2/2019	Order	550.1	Chg. 1 (LtdChg.) 12/13/2019	Official Travel