Modification No.: 652

Supplemental Agreement to

Contract No.: DE-AC52-07NA27344

Part III, Section J, Appendix G – List of Applicable Directives

In addition to the list of applicable directives listed below, the Contractor shall also comply with supplementary directives (e.g., manuals), which are invoked by a Contractor Requirements Document (CRD) attached to a directive. Electronic copies of these documents are available at the following Websites: https://www.directives.doe.gov/directives

https://nnsa.energy.gov/aboutus/ouroperations/managementandbudget/supplementaldirectives

https://nnsa.energy.gov/aboutus/ouroperations/managementandbudget/policysystem/nnsapolicies

https://energy.gov/ehss/services/nuclear-safety/department-energy-technical-standards-program/doe-approved-technical

NOTE: Not Applicable (N/A); Some directives were ineligible for implementation plans as they were added to DE-AC52-07NA27344 at its inception on 10/01/07. Effective Date column denotes LLNS directive acceptance date or date directive was added unilaterally.

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION	MOD	EFFECTIVE
			PLAN	#	DATE
			Y/N		
DOE O 130.1	09/29/95	Budget Formulation	N/A	M003	10/01/07
DOE M 140.1-1B	03/30/01	Interface with the Defense Nuclear Facilities Safety Board	N/A	M003	10/01/07
DOE M 142.2-1, Admin Chg 1	09/04/08	Manual for Implementation of the Voluntary Offer Safeguards	N	404	07/23/13
		Agreement and Additional Protocol with the International			
		Atomic Energy Agency			
DOE O 142.2A, Admin Chg 1	12/15/06	Voluntary Offer Safeguards Agreement and Additional	N/A	404	07/23/13
		Protocol with the IAEA			
DOE O 142.3A Chg 1 (MinChg)	01/18/17	Unclassified Foreign Visits and Assignments Program	N	645	04/11/17
DOE O 150.1A	03/31/14	Continuity Programs	Y	463	05/14/14
DOE O 151.1D	8/11/16	Comprehensive Emergency Management System	N	645	11/01/16
DOE O 153.1	06/27/07	Departmental Radiological Emergency Response Assets	N/A	M003	10/01/07
DOE O 200.1A Chg 1 (MinChg)	01/13/17	Information Technology Management	N	645	04/19/17

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE O 205.1B, Chg 3	04/29/14	Department of Energy Cyber Security Program Note: NAP-14.1D dated 12/14/12, 14.1C Chapter VII only and 14.3B dated 05/02/08 are implemented through this directive. The NAPs are not accessible to the public.	N/A	513	12/17/14
DOE M 205.1-3, Admin Chg 1	12/20/12	Telecommunications Security Manual Note: This document is not accessible to the public.	Y	513	11/19/14
DOE O 206.1	01/16/09	Department of Energy Privacy Program	N	353	03/05/09
DOE O 206.2	02/19/13	Identity, Credential, and Access Management (ICAM)	NA	363	06/04/13
DOE O 210.2A	04/08/11	DOE Corporate Operating Experience Program	N	253	05/31/11
DOE O 221.1B	09/27/16	Reporting Fraud, Waste, and Abuse to the Office of Inspector General	N	645	10/26/16
DOE O 221.2A	02/25/08	Cooperation With The Office of Inspector General	N/A	M069	03/31/08
DOE O 225.1B	03/04/11	Accident Investigations	N	253	03/31/11
NNSA SD 226.1B	08/12/16	NNSA Site Governance	Y	637	02/09/17
DOE O 227.1A	12/21/15	Independent Oversight Program	N	253, 619	1/27/16
DOE O 231.1B. Admin Chg 1	06/27/11	Environment, Safety, and Health Reporting	N	353	03/25/13
DOE O 232.2A	01/17/17	Occurrence Reporting and Processing of Operations Information	N	645	04/25/17
DOE O 241.1B Chg 1 (Admin Chg)	04/26/16	Scientific and Technical Information Management	N	210, 619	05/31/16
DOE O 243.1B, Admin Chg 1	03/11/13	Records Management Program	N	400	08/09/13
DOE O 252.1A,Admin Chg 1	02/23/11	Technical Standards Program	N	353	03/19/13
DOE O 341.1A	10/18/07	Federal Employee Health Services Paragraph 4b and Attachment 1, Paragraph 2a only	Y	M018	01/07/08
DOE O 410.2, Admin Chg 1	04/10/14	Management of Nuclear Materials	N	513	11/24/14
DOE O 413.1B	10/28/08	Internal Control Program	N/A	M069	12/10/08
DOE O 411.2	01/04/17	Scientific Integrity	N	652	08/10/17
DOE P 411.2A	01/04/17	DOE Scientific Integrity Policy	N	652	00/00/17

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DOE O 413.2C	10/22/15	Laboratory Directed Research & Development	N/A	580	11/24/15
DOE O 413.3B Chg 3 (PgChg)	12/20/16	Program and Project Management for the Acquisition of Capital Assets	N	645	02/13/17
DOE O 414.1D, Admin Chg 1	04/25/11	Quality Assurance	N	404	05/28/13
DOE O 415.1. Chg 2 (MinChg)	01/13/17	Information Technology Project Management	N	645	04/19/17
DOE O 420.1C, Chg 1	02/27/15	Facility Safety	N/A	533	04/09/15
DOE O 420.2C	07/21/11	Safety of Accelerator Facilities	N	253	08/16/11
DOE O 422.1, Admin Chg 2	12/3/14	Conduct of Operations	N	580	11/19/15
DOE O 425.1D, Admin Chg 1	04/16/10	Verification of Readiness to Startup or Restart Nuclear Facilities	N	353	04/04/13
DOE O 426.2, Admin Chg 1	04/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	N	404	08/27/13
DOE O 430.1C	08/19/16	Real Property Asset Management	Y	652	08/10/17
DOE O 433.1B, Admin Chg 1	04/21/10	Maintenance Management Program for DOE Nuclear Facilities	N	404	05/16/13
DOE N 435.1	08/09/11	Contact-Handled and Remote –Handled Transuranic Waste Packaging	N	253	10/06/11
DOE O 435.1, Chg 1	08/28/01	Radioactive Waste Management	N/A	M003	10/01/07
DOE M 435.1-1,Admin Chg 2	06/08/11	Radioactive Waste Management Manual	N	253	07/07/11
DOE O 436.1	05/02/11	Departmental Sustainability, Only the following CRD Sections: 1 st paragraph; paragraph 1. and 2.a in its entirety; and paragraph 2.b as follows: Environmental Management Systems (EMS). Site sustainability goals must be integrated into the EMS's.	N Contractor is ISO 14001 Certified	291	01/26/2012
DOE O 440.2C, Admin Chg 1	06/15/11	Aviation Management and Safety	N	253	07/28/11
DOE M 441.1-1	03/07/08	Nuclear Material Packaging Manual	Y	M037	04/22/08
DOE O 442.1A	06/06/01	Department Of Energy Employee Concerns Program	N/A	M003	10/01/07
DOE O 442.2 Chg 1 (PgChg)	10/04/16	Differing Professional Opinions for Technical Issues Involving ES&H Technical Concerns	N	645	02/09/17
DOE O 443.1B Chg1 (PgChg)	04/21/16	Protection of Human Research Subjects	N	253, 619	05/13/16

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE N 443.1	1/21/16	Protection of Human Subjects in Classified Research	N	619	4/11/16
DOE O 452.1E	01/26/15	Nuclear Explosive and Weapon Surety Program	N	533	04/09/15
DOE O 452.2E	01/26/15	Nuclear Explosive Safety	N	533	04/09/15
NNSA SD 452.2	11/17/14	Nuclear Explosives Safety Evaluation Processes	N	513	01/22/15
DOE O 452.3	06/08/05	Management of the Department of Energy Nuclear Weapons Complex	N/A	M003	10/01/07
NNSA SD 452.3-1A	2/25/16	Defense Programs Business Process System	N	619	3/30/16
NNSA SD 452.3-2	01/19/17	Phase 6.X Process	N	652	08/10/17
DOE O 452.4C	08/28/15	Security and Use Control of Nuclear Explosives and Nuclear Weapons	N	574	09/16/15
DOE O 452.6A	04/14/09	Nuclear Weapon Surety Interface with the Department of Defense	N	M093	06/16/09
DOE O 452.7	05/14/10	Protection of Use Control Vulnerabilities and Designs	N	159	06/24/10
DOE O 452.8	07/21/11	Control of Nuclear Weapon Data	N	253	08/30/11
DOE O 456.1A	07/15/16	The Safe Handling of Unbound Engineered Nanoparticles	NA	619	08/09/16
DOE O 457.1A	08/26/13	Nuclear Counterterrorism	N/A	404	10/09/13
DOE O 458.1, Admin Chg 3	01/15/13	Radiation Protection of the Public and the Environment	N	353	02/14/13
DOE O 460.1D	12/20/16	Hazardous Materials Packaging and Transportation Safety	N	652	08/1017
DOE O 460.2A	06/04/08	Departmental Materials Transportation & Packaging Management	N/A	M003	10/01/07
DOE M 460.2-1A	09/23/02	Radioactive Material Transportation Practices	N	M037	08/12/08
DOE O 461.1C	07/20/16	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest	N	619	08/22/16
DOE O 461.2	11/01/10	Onsite Packaging and Transfer of Materials of National Security Interest	N	210	03/21/11
DOE O 462.1, Admin Chg 1	07/10/13	Import and Export of Category 1 and 2 Radioactive Sources Aggregated Quantities	N	513	11/24/14
DOE O 470.3C	11/23/16	Design Basis Threat (DBT) Order	Y	637	02/09/17
DOE O 470.4B Chg 2 (MinChg)	01/17/17	Safeguards and Security Program	N	645	04/19/17
DOE O 470.5	6/2/14	Insider Threat Program	Y	580	11/5/15

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DOE O 470.6	09/02/15	Technical Security Program	Y	645	03/30/17
DOE O 471.1B	03/01/10	Identification and Protection of Unclassified Controlled Nuclear Information	N	151	06/10/10
DOE O 471.3, Admin Chg 1	01/13/11	Identifying and Protecting Official Use Only Information	N	210	03/01/11
DOE M 471.3-1, Admin Chg 1	04/09/03	Manual for Identifying and Protecting Official Use Only Information	N/A	404	03/01/11
DOE O 471.5	03/29/11	Special Access Programs	N	253	05/05/11
DOE O 471.6, Admin Chg 2	05/15/15	Information Security	N	574	06/18/15
DOE O 472.2 Chg 1	07/09/14	Personnel Security	N	513	11/25/14
DOE O 473.3A	03/23/16	Protection Program Operations	N	628	11/21/16
NNSA SD 473.3	09/10/14	Enterprise Mission Essential Task List-based Protective Force Training Program	N	574	09/03/15
DOE O 474.2, Chg 4 (PgChg)	09/27/16	Nuclear Material Control and Accountability	N	645	10/26/16
DOE O 475.1	12/10/04	Counterintelligence Program	N/A	M003	10/01/07
DOE O 475.2B	10/03/14	Identifying Classified Information	N	513	11/25/14
DOE M 481.1-1A, Chg 1	09/28/01	Reimbursable Work for Non-Federal Sponsors Process Manual	N/A	M003	10/01/07
DOE O 483.1B	12/20/16	DOE Cooperative Research & Development Agreements	N/A	645	04/24/17
DOE O 484.1, Admin Chg 2	6/30/14	Reimbursable Work for Department of Homeland Security	N/A	580	11/24/15
DOE O 522.1	11/03/04	Pricing of Departmental Materials and Services: <i>CRD</i> Paragraphs 1, 2 & 3 only ¹	N/A	253	06/13/11
DOE O 534.1B	01/06/03	Accounting	N/A	M003	10/01/07
DOE O 551.1D, Chg 2 (Minor Revision)	08/09/16	Official Foreign Travel	N	645	09/15/16
DOE O 5639.8A	07/23/93	Security of Foreign Intelligence Information and Sensitive Compartmented Information Facilities	N/A	M003	10/01/07
DOE-STD-1027-92, Change 1	09/97	Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23 Nuclear Safety Analysis Reports	N/A	M003	10/01/07
DOE-STD-1090-2011	09/11	Hoisting and Rigging	N	291	02/23/12

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DOE-STD-1095-2011	01/11	Department of Energy Laboratory Accreditation for External Dosimetery	N	210	04/01/11
DOE STD-1098-2008, Chg 1	05/09	DOE Standard Radiological Control	N	432	01/30/14
DOE STD-1129-2015	09/15	Tritium Handling and Safe Storage; Section 6.6 Only	Y	619	606/23/16
DOE STD-1212-2012	06/12	Explosives Safety	N	353	02/27/13
DOE-STD-3006-2010	05/10	Planning and Conducting Readiness Reviews	N/A	619	02/08/16
DOE-STD-3009-1994, Change Notice 3	04/02	Preparation Guide for U.S. DOE Nonreactor Nuclear Facility Safety Analysis Reports	N/A	M003	10/01/07
DOE-STD-3011-2002	12/02	Guidance for Preparation of Basis for Interim Operation (BIO) Documents	N/A	M003	10/01/07
DOE-STD-3013-2012	03/12	Stabilization, Packaging, And Storage Of Plutonium-Bearing Mterials	N/A	580	12/7/15

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DOE-STD-3014-2006	05/06	Accident Analysis for Aircraft Crash into Hazardous Facilities	N/A	619	06/23/16
DOE-NA-STD-3016-2016	09/16	Hazard Analysis Reports for Nuclear Explosive Operations	N	645	12/20/16
DOE STD-3020-2015	06/15	Specification for HEPA Filters Used by DOE Contractors	N/A	619	06/21/16
DOE STD-7501-99	12/99	The DOE Lessons Learned Program	N/A	M003	10/01/07
NAP-23 Admin Chg 1	02/09/15	Atomic Energy Act Control of Import and Export Activities	N/A	533	04/09/15
NAP-24A	11/24/15	Weapon Quality Policy Note: This document is not accessible to the public.	Y	619	03/08/16
NAP-31	11/22/16	NNSA M&O Off-Site Extended Duty Assignments	N/A	637	2/09/17
QP 100-1 Amendment 4	03/01/13	Application of Quality Requirements to UK and US Procurement Orders and Loan Authorizations for Research, Design, and Development Note: This document is only applicable when the contractor is providing R&D, and Emergency Support for Procurement Orders issued under UKMOD.	N/A	463	05/01/14
Development and Production Manual *	02/08/06	Development and Production Manual Note: This document is not accessible to the public.	N/A	159, 404	10/01/07
Technical Business Practices **	various	Technical Business Practices Note: This document is not accessible to the public.	N/A	M003	10/01/07
Infrastructure Business Practices**	various	Infrastructure Business Practices Note: This document is not accessible to the public.	N/A	M003	10/01/07
Production Realization Standards**	various	Production Realization Standards Note: This document is not accessible to the public.	N/A	M003	10/01/07

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* 5/27/2010 Goodrum Memo: D&P Manual, Chapters 1.3, 2.7, 10.1, 11.1, and 11.7 are cancelled without replacement. 12/14/12 Finan Memo Chapter 12.3, para 4.0.1. 8/26/13 Dawkins Memo Chapter 2.4, Sections 4.2.3 & 4.2.4 para 1; Chapter 3.2 excluding phase 6.6 after achievement of steady state production; Chapter 3.7, Section 5.1, para 4, bullet 2. 9/11/13 Dawkins Memo Chapter 2.3.

** Based on the D&P Manual chapter cancellations in *, the relevant chapters in these directives are cancelled.

(A) <u>Implementation of applicable directives.</u>

- (1) The Contractor shall submit an implementation plan to the Contracting Officer when required by the directive or other instruction of the Contracting Officer and within 60 days of contract award or acceptance of the directive after contract award.
- (2) The Contracting Officer will approve or disapprove the plan and notify the Contractor of the decision. If the Contracting Officer disapproves the plan, he/she shall clearly identify all deficiencies and provide reasonable suggestions for making the plan acceptable. Within 30 days after notification of the disapproval of a plan, the Contractor shall submit to the Contracting Officer the revised plan for approval as described above.
- (3) During the process of implementation, the Contractor will notify the Contracting Officer if modifications to the plan are required for any reason. The Contracting Officer will consider all such requests and will not unreasonably withhold his/her approval to modify such plans when circumstances warrant modification.