

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE PAGE 1 OF 9

2. AMENDMENT/MODIFICATION NO. 0063 3. EFFECTIVE DATE See Block 16.c. 4. REQUISITION/PURCHASE REQ. NO. 5. PROJECT NO. (If applicable)

6. ISSUED BY U.S. Department of Energy National Nuclear Security Administration Sandia Field Office P.O. Box 5400, MS 0184 Albuquerque, NM 87185-5400 7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, state, ZIP Code) National Technology & Engineering Solutions of Sandia, LLC 1515 Eubank Blvd SE Albuquerque, New Mexico 87123-3453 9A. AMENDMENT OF SOLICITATION NO. 9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-NA0003525 10B. DATED (SEE ITEM 13) 12/16/2016

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 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 ACKNOWLEDGMENT 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 APPLIES ONLY TO MODIFICATIONS 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). X C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: DOE Organization Act, 42 USC §7101 et seq.; NNSA Act, 50 USC § 2401 et seq.; and DEAR 970.5204-2 Laws, Regulations and DOE Directives (Dec 2000) (Deviation) D. OTHER (Specify type of modification and authority):

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

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Modifies Section H, clause H-16 Confidentiality of Information, Section I, Appendix A, Appendix B (Attachment 1), and Appendix C. See pages 2 - 9 for additional detail.

15A. NAME AND TITLE OF SIGNER (Type or print) Rachel Richmond, Acting Sr Manager, Prime Contract National Technology & Engineering Solutions of Sandia 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Lindsey VanNess, Contracting Officer Sandia Field Office, NNSA

15B. CONTRACTOR/OFFEROR BY (Signature of person authorized to sign) 15C. DATE SIGNED 1/23/19 16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer) 16C. DATE SIGNED 01/23/2019

The purpose of this modification is to modify the contract as outlined below:

- 1- Replace paragraph (a) of Section H clause, H-16 *Confidentiality of Information* as follows:

From:

- (a) To the extent that the work under this Contract requires that the Contractor be given access to or be furnished with confidential or proprietary business, technical, or financial information or data belonging to other entities that is confidential or proprietary, the Contractor shall, after receipt thereof, treat such information in confidence and agrees not to appropriate such information to its own use or to disclose such information to third parties unless specifically authorized in writing by the Contracting Officer. Unless covered by other existing confidentiality requirements, the foregoing obligations shall not apply to:

To:

- (a) To the extent that the work under this Contract requires that the Contractor be given access to or be furnished with business, technical, or financial information or data belonging to other entities that is confidential or proprietary, the Contractor shall, after receipt thereof, treat such information in confidence and agrees not to appropriate such information or to disclose such information to third parties unless specifically authorized in writing by the Contracting Officer or owner of such information. Unless covered by other existing confidentiality requirements, the foregoing obligations shall not apply to:

- 2- Section I, A. *FAR CLAUSES INCORPORATED BY REFERENCE*, clause FAR 52.247-1, update the "TBD" placeholder to "DE-NA0003525".

- 3- Add the text below in the column "Clause Title" in Section I, B. *DEAR CLAUSES INCORPORATED BY REFERENCE*, clause DEAR 970.5232-4 *Obligation of Funds*:

(a) *Obligation of funds. The amount presently obligated by the Government with respect to this contract is (See Section B, clause B-5) dollars (\$ __).*

- 4- Correct modification M0043, Item 1 that updated the "Date of Clause" and "Clause Title" for FAR 52.223-11. This clause is not in subsection A. *FAR Clauses Incorporated by Reference*, but rather subsection C. *FAR and DEAR Clauses Incorporated in Full Text*. As such, clause I-9 shall be replaced in its entirety with the updated clause as follows:

I-9 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES AND HIGH GLOBAL WARMING POTENTIAL HYDROFLUOROCARBONS (JUN 2016)

- (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 which 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>.

(End of Clause)

- 5- Replace paragraph (i) through (vi) of Appendix A, Chapter III, Section 5.2.6 as follows, and remove the paragraph that follows subparagraph (vi) regarding Service Credit, as NA SD 350.1 *M&O Contractor Service Credit Recognition* addresses these requirements and is incorporated in the contract in Appendix B.

From:

- (i) Voluntarily separates, resigns or retires from employment, except that in the event the Contractor conducts an NNSA approved voluntary separation program;
- (ii) Is offered employment with a successor/replacement Contractor;
- (iii) Is offered employment with a parent or affiliated company; and/or
- (iv) Is discharged for cause; or
- (v) Is currently in a Key Personnel position

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.

To:

- (i) Voluntarily terminates employment;
- (ii) Provides notice of resignation before receiving a layoff or termination notice;
- (iii) Is offered employment with any contractor that succeeds the Contractor in performing any portion or all of the work under this Contract;
- (iv) Is offered employment with a parent, subsidiary, or affiliated company of the Contractor;
- (v) Is discharged for cause (as determined by the Contractor); or
- (vi) Has ever been identified as Key Personnel under this Contract

- 6- Replace in its entirety Appendix B (Attachment 1).

- 7- Correct the references to the *Compensation and Labor Relation* Sections in Appendix C, Section 2.0 *Compensation* as follows:

From:

Section 3.0, *Compensation*, does not apply to bargaining unit employees. Section 4.0 sets forth allowable costs associated with bargaining unit employees.

To:

Section 2.0, *Compensation*, does not apply to bargaining unit employees. Section 3.0 sets forth allowable costs associated with bargaining unit employees.

- 8- Replace Appendix C, Section 2.0, *Compensation*, paragraph (iii) Extended Workweek and Flextime as follows:

From:

When deemed essential to the performance of work under this Contract and there is no ability to provide other forms of relief, extended workweek or flextime options may be available for exempt employees in accordance with the Contracting Officer approved plan.

To:

When deemed essential to the performance of work under this Contract and there is no ability to provide other forms of relief, management may approve extended workweek or flextime options for exempt employees in accordance with the Contracting Officer approved plan.

Flextime allows exempt employees to accumulate time-off when business demands exceed a normal schedule. Flextime begins to accrue after the fifth hour over an employee's weekly schedule. An employee's flextime accrual may not exceed 80 hours at any given time.

Extended Workweek allows exempt employees to be paid straight time for all hours worked after the fifth hour over the employee's defined workweek.

Employees may not be on extended workweek and earn flextime. Extended workweek or flextime cannot be earned in the same period with time charging codes associated with paid time off except for employer required training and employer required medical exams/treatment.

- 9- Replace Appendix C, Section 2.0, *Compensation*, paragraph (v) *Special Allowances*, and rename the paragraph as follows:

From:

(v) *Special Allowances*

Special salary allowances may be paid to employees in specific work environments, and reimbursed in accordance with the approved Special Allowance Plan as outlined below:

Sensitive Compartmented Information Facility (SCIF) Differential
Classified Administrative Specialist (CAS) Differential
Supplemental Allowance for Incident Commanders
Uniformed Security Supervisors Salary Differential
Joint Technical Operations Team Watch List (JTOT) Allowance or SNL Nuclear Incident Response (NIR) Group Watch List
On-Call Pay
Shift Differential

Working Condition Differential (Z-Machine)
Salary Allowance for Hardships (Domestic)*
Incentive Allowance (Domestic)*
Extended Travel Allowance*
Nuclear Reactor Engineer and Operators Allowance*

* Allowance will not be allowable after August 1, 2018.

To:

(v) *Differentials and On-Call Pay*

Differentials and on-call pay may be paid to employees in specific work environments and situations. Reimbursement shall be in accordance with the Contracting Officer approved differentials and on-call pay plan, and is limited to the following programs:

Program
Sensitive Compartmented Information Facility (SCIF) Differential
Classified Administrative Specialist (CAS) Differential
Night Shift Differential
Working Condition Differential (Z-Machine)
Incident Commander Differential
Uniformed Security Supervisor Differential
Tonopah Test Range and Nevada Test Range Differential
Nuclear Incident Response Program (NIRP) On-Call Pay
On-Call Pay

10- Replace Appendix C, Section 2.0, *Compensation*, paragraph (vii) *Severance* as follows:

From:

(vii) Severance Pay

Severance schedule to be included here upon approval by Contracting Officer as required in Section J Appendix A, *Statement of Work*, Chapter III Section 4.0, *Compensation*, Section 5.2.6.

To:

(vii) Severance Pay:

The Contractor will be reimbursed for providing severance pay in the accordance with the following: 1) eligible, non-bargaining unit Contractor employees will receive a basic severance benefit that is equal to 2 weeks base rate salary; and 2) eligible, non-bargaining unit Contractor employees will receive a supplemental severance benefit equal to one week base rate salary for each full year of completed service, up to 24 weeks. In no event will the Contractor be reimbursed for providing severance to an employee to the extent the severance pay exceeds 26 weeks of base rate salary.

Bargaining employees are eligible for severance pay in accordance with their labor agreement.

- 11- Correct the numbering format for Service Credit, Pay In Lieu of Notice, and Retention Incentive and Sign-On Bonus Plans from (x), (xi), (xii) to (viii), (ix), (x), respectively, in Appendix C, Section 2.0, *Compensation*.
- 12- Remove the word "Exempt" from "Exempt Employee" the Pay In Lieu of Notice subsection in Appendix C, Section 2.0, *Compensation*.
- 13- Add "Chapter III," after "Appendix A, *Statement of Work*," in Section 3.0 *Labor Relations – Collective Bargaining Agreements*.

From:

Costs of wages and fringe benefits to employees represented by collective bargaining units and all other costs and expenses incurred pursuant to the provisions of collective bargaining agreements and revisions thereto are allowable costs provided the Contractor adheres to requirements provided in Appendix A, Statement of Work, Section 7.0, Labor Relations for the following Collective Bargaining Agreements:

To:

Costs of wages, fringe benefits, and other expenses incurred pursuant to the provisions of collective bargaining agreements and revisions thereto are allowable costs provided the Contractor adheres to requirements provided in Appendix A, Statement of Work, Chapter III, Section 7.0, Labor Relations for the following Collective Bargaining Agreements:

- 14- Delete subparagraphs (ii)(2) *Sickness Absence*, and (ii)(3) *Voluntary Short-Term Disability Benefits (SNL/CA Only)* in Appendix C, Section 4.0, *Group Insurance and Legally Required Payments*, paragraph (ii)(2) is outlined in Section 7.0, *Paid/Unpaid Time Off* and (ii)(3) does not exist.

From:

- (1) Short Term Disability
- (2) Sickness Absence
- (3) Voluntary Short-Term Disability Benefits (SNL/CA Only)
- (4) Long-Term Disability
- (5) Group Life Insurance
- (6) Accident/Business Travel Accident Insurance
- (7) Dental
- (8) Medical
- (9) Vision
- (10) Retiree Health and Welfare Benefits
- (11) Worker's Compensation

To:

- (1) Short Term Disability
- (2) Long-Term Disability
- (3) Group Life Insurance
- (4) Accident/Business Travel Accident Insurance
- (5) Dental

- (6) Medical
- (7) Vision
- (8) Retiree Health and Welfare Benefits
- (9) Worker's Compensation

15- Correct the Appendix A reference in the first paragraph of Appendix C, Section 5.0 *Displaced Workers Medical Benefits Program (DWMBP)* as follows:

From:

The Contractor may provide Displaced Workers Medical Benefits to displaced workers if provision of such benefit is set forth in the Contractor's workforce restructuring plan that is approved by DOE/NNSA (see Section J, Appendix A, Statement of Work, Chapter III Section 6.0 Workforce Planning, Section 6.2).

To:

The Contractor may provide Displaced Workers Medical Benefits to displaced workers if provision of such benefit is set forth in the Contractor's workforce restructuring plan that is approved by DOE/NNSA (see Section J, Appendix A, Statement of Work, Chapter III Section 3.2 *Reductions in Contractor Employment - Workforce Restructuring*, Section 3.2.2.2).

16- Replace Appendix C, Section 8.0, *Training and Education*, paragraph (iii) *Education*, and insert the paragraph as follows:

From:

(iii) Education

The Contractor may implement a education program in accordance with the Contracting Officer approved plan.

To:

(iii) Education

Education costs may be paid to employees participating in the programs listed below, in accordance with the Contracting Officer approved plan.

NTESS Program	Description
Full Time	For existing employees to pursue a graduate degree in a critical skill field. Employees must be enrolled in a full time graduate program to be eligible for reimbursement. The program is limited to a maximum of 2 years, or the length of the program, whichever is less.
Part Time	For employees pursuing graduate degree in a critical skill field while continuing to work 30 hours per week. Employees must be enrolled in a full time graduate program to be eligible for reimbursement.
Tuition Assistance	Tuition for employees taking courses or working toward an associate, bachelor, or graduate degree on-line or at a local university while working full-time. Employee working part time are eligible for half of a full-time employee's benefit. Tax assistance will not be provided for any tuition assistance.

- 17- Replace the first introductory paragraph in Appendix C, Section 7.0, *Paid/Unpaid Time Off*, and insert the five new paragraphs below as (i) through (v), and relabel (i) Military Leave of Absence to (vi) and relabel (ii) Security Leave (Suspension of Access Authorization) to (vii):

The Contractor may implement the following paid and unpaid time off programs in accordance with the Contracting Officer approved plan, and in addition to Section 4.0, Group Insurance and Legally Required Payments, paragraph (ii).

- (iii) Holiday: Up to 11 holidays within a calendar year at the basic rate of pay.
- (iv) Vacation: Up to 192 hours vacation accrual based on service, with an option to buy additional vacation hours, and vacation donation for an applicable emergency.
- (v) Sickness Absence: Up to 6 weeks of paid sickness absence at the basic rate of pay, and 20 weeks at a percentage of pay, to include 6 weeks of Family Leave.
- (vi) Other Allowable Paid Leave:
 - (1) Paid Absence: Up to 40 hours for bereavement, incidental family care, tribal appointments, and regulatory required time off, and up to 20 hours for voluntary firefighter time (excluding time incurred to travel or for training)
 - (2) Jury/Witness Duty
 - (3) Work Closure
- (vii) Unpaid Leave: Unpaid absences and leaves of absence may be granted in the following categories:
 - (1) Excused Unpaid Time: Up to 160 hours for one-time emergencies that require an employee's immediate attention when no other options are available.
 - (2) Unpaid Leaves of Absence: Up to 12 months for Personal Leave of Absence or Child Care Leave of Absence; up to 36 months for Educational Leave of Absence or Special Leave of Absence; and up to 60 months for Military Leave of Absence.

--- End of contract modification ---

Part III - Section J
APPENDIX B
List of Applicable Directives and NNSA Policy Letters

In addition to the list of applicable directives referenced 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 referenced below. The Contractor shall comply with the Operating Requirements identified in Appendix B.

Number	Date	Title	Mod #
APPH Chapter X Revision 10	9/08/98	Accounting Practices & Procedures Handbook (APPH) Chapter X – Product Cost Accounting	Award
DOE O 130.1	9/29/95	Budget Formulations	Award
DOE O 140.1	05/14/18	Interface with the Defense Nuclear Facilities Safety Board	Award M0050
DOE O 142.2A, Admin Chg. 1	6/27/13	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	Award
DOE M 142.2-1, Admin Chg. 1	6/27/13	Manual for the Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	Award
DOE O 142.3A, Chg 1	1/18/17	Unclassified Foreign Visits and Assignments Program	M0018
DOE O 144.1 Admin Chg. 1	11/6/09	Department of Energy American Indian Tribal Government Interactions and Policy	Award
DOE O 150.1A	3/31/14	Continuity Programs	Award
DOE O 151.1D	8/11/16	Comprehensive Emergency Management System ¹	Award
DOE O 153.1	6/27/07	Departmental Radiological Emergency Response Assets	Award
DOE O 200.1A	12/23/08	Information Technology Management	Award
DOE O 205.1B, Admin Chg. 3	4/29/14	Department of Energy Cyber Security Program ²	Award
NA SD 205.1	7/6/17	Baseline Cybersecurity Program	M0032
DOE M 205.1-3, Admin Chg. 1	12/20/12	Telecommunications Security Manual ³	Award
DOE O 206.1, Chg 1	11/01/18	Department of Energy Privacy Program	Award M0063
NA SD 206.1	06/22/18	Privacy Program	M0050
DOE O 206.2	2/19/13	Identity, Credential, and Access Management (ICAM)	Award
NA SD 206.2	4/14/18	Implementation of Personal Identity Verification for Uncleared Contractors ⁴	M0063
DOE O 210.2A	4/08/11	DOE Corporate Operating Experience Program	Award
NAP 220.1	06/19/18	Internal Affairs Program	M0050

¹ Full implementation will be achieved by July 24, 2020, in accordance with the approved implementation plan.

² SNL will evaluate NNSA RMIP releases to ensure the requirements of CNSSP-300 are adequately implemented.

³ Refer to memorandum from NNSA/HQ/NA-IM-10, Subject: *Cable-confined Testing and Transmitter Review Forms (TRF)*, dated 4/25/12, for clarification to TRF completion Requirements.

⁴ Full implementation will be achieved in accordance with an NNSA-approved implementation plan.

Number	Date	Title	Mod #
DOE O 221.1B	9/27/16	Reporting Fraud, Waste, and Abuse to the Office of Inspector General	Award
DOE O 221.2A	2/25/08	Cooperation With the Office of Inspector General	Award
DOE O 225.1B	3/04/11	Accident Investigations	Award
DOE O 226.1B	4/25/11	Implementation of Department of Energy Oversight Policy	Award
NNSA SD 226.1B	8/12/16	NNSA Site Governance	M008
DOE O 227.1A	12/21/15	Independent Oversight Program	Award
DOE O 231.1B, Admin Chg. 1	11/28/12	Environment, Safety and Health Reporting	Award
DOE O 232.2A	1/17/17	Occurrence Reporting and Processing of Operations Information	Award M0026
DOE O 241.1B Chg. 1	4/26/16	Scientific and Technical Information Management	Award
DOE O 243.1B, Admin Chg. 1	7/8/13	Records Management Program	Award
NA SD 251.1A	01/17/18	Directives Management	M0050
DOE O 252.1A, Admin Chg. 1	3/12/13	Technical Standards Program	Award
DOE O 313.1	11/19/09	Management and Funding of the Department's Overseas Presence	Award
NA SD O 350.1	2/5/09	Management and Operating Contractor Service Credit Recognition	Award
DOE O 410.2, Admin Chg. 1	4/10/14	Management of Nuclear Materials	Award
DOE O 411.2	1/4/17	Scientific Integrity	M0018
DOE O 412.1A, Admin Chg. 1	5/21/14	Work Authorization System	Award
DOE O 413.1B	10/28/08	Internal Control Program	Award
DOE O 413.2C, Change 1	8/2/18	Laboratory Directed Research and Development	Award M0050
DOE O 413.3B, Chg. 5	4/12/18	Program and Project Management for the Acquisition of Capital Assets ⁵	M0018 M0032 M0050
DOE O 414.1D, Admin Chg.1	5/8/13	Quality Assurance	Award
DOE O 415.1, Chg 2	1/13/17	Information Technology Project Management	M0018
NA SD 415.1	9/3/14	Project Oversight for Information Technology	Award
DOE O 420.1C, Chg. 2	7/26/18	Facility Safety ⁶	Award M0063
DOE O 420.2C	7/21/11	Safety of Accelerator Facilities	Award
DOE O 422.1, Admin Chg. 2	12/3/14	Conduct of Operations	Award

⁵ The annual Value Management/Engineering progress report required by paragraph 10. of the CRD shall be submitted to Program Offices through the SFO.

⁶ Full implementation will be achieved by 09/30/19 in accordance with an approved implementation plan.

Number	Date	Title	Mod #
DOE O 425.1D, Admin Chg. 1	4/2/13	Verification of Readiness to Start up or Restart Nuclear Facilities	Award
DOE O 426.2 Admin Chg. 1	7/29/13	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	Award
NNSA SD 430.1	1/18/17	Real Property Asset Management	M0018
DOE O 433.1B, Admin Chg. 1	3/12/13	Maintenance Management Program for DOE Nuclear Facilities	Award
DOE N 435.1	8/9/11	Contact-Handled and Remote-Handled Transuranic Waste Packaging	Award
DOE O 435.1, Chg. 1	8/28/01	Radioactive Waste Management	Award
DOE O 436.1	5/2/11	Departmental Sustainability ⁷	Award
DOE O 440.2C, Admin Chg. 1	6/22/11	Aviation Management and Safety	Award
DOE M 441.1-1 Admin Chg. 1	2/24/16	Nuclear Material Packaging ⁸	Award
DOE O 442.2, Chg 1 (Pg Chg)	10/5/16	Differing Professional Opinions for Technical Issues Involving Environment, Safety, and Health	Award
DOE N 443.1	1/21/16	Protection of Human Research Subjects in Classified Research	Award
DOE O 443.1B, Chg 1	4/21/16	Protection of Human Research Subjects	Award
DOE O 452.1E	1/26/15	Nuclear Explosive and Weapon Surety Program ⁹	Award
DOE O 452.2E	1/26/15	Nuclear Explosive Safety	Award
NA SD 452.2A	10/20/17	Nuclear Explosive Safety Evaluation Process	Award M0032
DOE O 452.3	6/8/05	Management of the Department of Energy Nuclear Weapons Complex	Award
NNSA SD 452.3-1A	2/25/16	Defense Programs Business Process System ¹⁰	Award
NNSA SD 452.3-2	1/19/17	Phase 6.X Process	M0018
DOE O 452.4C	8/28/15	Security and Use Control of Nuclear Explosives and Nuclear Weapons	Award
DOE O 452.6A	4/14/09	Nuclear Weapon Surety Interface with the Department of Defense	Award
DOE O 452.7	5/14/10	Protection of Use Control Vulnerabilities and Designs	Award
DOE O 452.8	7/21/11	Control of Nuclear Weapons Data	Award
DOE O 456.1A	7/15/16	The Safe Handling of Unbound Engineered Nanoparticles	Award
DOE O 457.1A	8/26/13	Nuclear Counterterrorism	Award
DOE O 458.1, Admin Chg. 3	1/15/13	Radiation Protection of the Public and the Environment	Award

⁷ All references to "14001:2004" shall be replaced with "14001:2015".

⁸ Material acquired subject to DOE M 441.1-1 must have an approved container for storage, or must have a NNSA-approved plan to develop a container to comply with the requirements, when it comes on site.

⁹ Clarification to CRD, Item 7c: Concepts for features are to be developed for consideration.

¹⁰ Changes will be processed as described in Section H, clause H-14(c). CRD Item 6 is achieved through the M&O Contractor Working Group.

Number	Date	Title	Mod #
DOE O 460.1D	12/20/16	Hazardous Materials Packaging and Transportation Safety	M0018
DOE O 460.2A	12/22/04	Departmental Materials Transportation & Packaging Management	Award
DOE M 460.2-1A	6/04/08	Radioactive Material Transportation Practices Manual	Award
DOE O 461.1C	7/20/16	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest	Award
DOE O 461.2	11/1/10	Onsite Packaging and Transfer of Materials of National Security Interest	Award
DOE O 462.1, Admin Chg. 1	7/10/13	Import and Export of Category 1 and 2 Radioactive Sources and Aggregated Quantities	Award
DOE O 470.3C	11/23/16	Design Basis Threat (DBT) ¹¹	Award M0043
DOE O 470.4B, Admin Chg. 2	1/17/17	Safeguards and Security Program ¹²	M0018
DOE O 470.6, Chg 1	1/11/17	Technical Security Program ¹³	Award M0032
NA SD 470.4-2	06/23/18	Enterprise Safeguards and Security Planning and Analysis Program ¹⁴	M0050
DOE M 470.4-4A	10/12/10	Information Security Manual ¹⁵	Award
DOE O 471.1B	3/1/10	Identification and Protection of Unclassified Controlled Nuclear Information	Award
DOE O 471.3, Admin Chg. 1	1/13/11	Identifying and Protecting Official Use Only Information	Award
DOE M 471.3-1, Admin Chg.1	1/13/11	Manual for Identifying and Protecting Official Use Only Information	Award
DOE O 471.5	3/29/11	Special Access Program	Award
DOE O 471.6, Admin Chg 2	5/15/15	Information Security ¹⁶	Award
DOE O 472.2, Chg. 1	7/9/14	Personnel Security	Award
DOE O 473.3A, Chg. 1	1/2/18	Protection Program Operations	Award M0043
NNSA SD 473.3	9/10/14	Enterprise Mission Essential Task List-Based Protective Force Training Program	M008

¹¹ Will be implemented IAW the NNSA enterprise implementation plan. NTESS will coordinate with NNSA when requirements cannot be implemented within existing resources.

¹² Full implementation will be achieved in accordance with an approved implementation plan. DD254 or DOE F 470.1 shall be provided to SFO for new classified SPP activity. Notification to update the form shall also be provided through the lifecycle of the activity.

¹³ Full implementation will be achieved in accordance with an approved implementation plan.

¹⁴ Will be implemented IAW the NNSA enterprise implementation plan. NTESS will coordinate with NNSA when requirements cannot be implemented within existing resources.

¹⁵ DOE O 471.6, Admin Chg. 1, dated 06/20/2011, replaced DOE M 470.4-4A, except Section D and the classified Technical Surveillance Countermeasures Annex.

¹⁶ Implementation of the "marking of documents in electronic environment requirements" listed in the CRD will be achieved in accordance with an approved implementation plan.

Number	Date	Title	Mod #
DOE O 474.2, Admin Chg. 4	9/13/16	Nuclear Material Control and Accountability	Award
DOE O 475.1	12/10/04	Counterintelligence Program	Award
DOE O 475.2B	10/3/14	Identifying Classified Information ¹⁷	Award
DOE O 483.1B	12/20/16	DOE Cooperative Research and Development Agreements	M0018
DOE O 484.1 Admin Chg. 2	6/30/14	Reimbursable Work for the Department of Homeland Security	Award
DOE O 522.1A	8/2/18	Pricing of Departmental Materials and Services	Award M0050
DOE O 534.1B	1/6/03	Accounting	Award
DOE O 551.1D, Chg. 2	8/9/16	Official Foreign Travel	Award
DOE O 5480.30, Chg. 1	3/14/01	Nuclear Reactor Safety Design Criteria	Award
DOE O 5639.8A	7/23/93	Security of Foreign Intelligence Information and Sensitive Compartmented Information Facilities	Award
NAP 23, Admin Chg. 1	2/9/15	Atomic Energy Act Control of Import and Export Activities	Award
NAP 24A	11/24/15	Weapon Quality Policy	Award
NAP 31	11/22/16	NNSA M&O Off-Site Extended Duty Assignments	M0008
QP 100-1	3/1/13	Quality Requirements to UK and US Procurement Contracts and Loan Authorizations for Research, Design, and Development	Award
NA SD 56XB, Rev. 2	5/10/04	Nuclear Weapon Development and Production ¹⁸	M0008
Nevada Field Office (NSO) Order 410.X1	10/9/13	Nevada National Security Site and North Las Vegas Facilities General Use and Operations Requirements	M0018
NFO O 412.X1	6/27/16	Real Estate Operations Permit	M0018
NFO O 421.X1, Revision 1	4/18/17	Nuclear Facility Safety Management	M0018
NSO M 450.X2-1	5/30/07	Underground Nuclear Testing, Test Readiness, and Threshold Test Ban Treaty, Verification	M0018
NSO O 450.X5B	9/20/12	Subcritical Experiments	M0018

¹⁷ Full implementation will be achieved in accordance with the February 4, 2015 JORRB.

¹⁸ Changes will be processed as described in Section H, clause H-14(c).