

**AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT** 1. CONTRACT ID CODE PAGE 1 OF 1 PAGES

2. AMENDMENT/MODIFICATION NO. **M521** 3. EFFECTIVE DATE **See Block 16C** 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** CODE  
7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, state, ZIP Code)  
**Sandia Corporation  
P. O. Box 5800  
Albuquerque, NM 87185**  
CODE FACILITY CODE  
9A. AMENDMENT OF SOLICITATION NO.  
9B. DATED (SEE ITEM 11)  
10A. MODIFICATION OF CONTRACT/ORDER NO.  
**DE-AC04-94AL85000**  
10B. DATED (SEE ITEM 13)  
**October 1, 1993**

**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).  
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:  
D. OTHER (Specify type of modification and authority):  
**X** DOE Organization Act, 42 USC §7101 et seq.; NNSA Act, 50 USC § 2401 et seq.; Clause I-72, DEAR 970.5204-2 Laws, Regulations and DOE Directives (Dec 2000)(Deviation).

E. IMPORTANT: Contractor  is not,  is required to sign this document and return 2 copies to the issuing office.

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

The purpose of this modification is to replace Section J, Appendix G, *List of Applicable Directives and NNSA Policy Letters (Attachment I)* hereto, in its entirety.

15A. NAME AND TITLE OF SIGNER (Type or print)  
**Steven Bauck, Manager  
Corporate Contract Management, Sandia Corporation**  
16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)  
**Lindsey E. VanNess, Contracting Officer  
Sandia Field Office, NNSA**

15B. CONTRACTOR/OFFEROR  
BY Steven Bauck  
(Signature of person authorized to sign)  
15C. DATE SIGNED  
**10/21/13**  
16B. UNITED STATES OF AMERICA  
BY Lindsey E. VanNess  
(Signature of Contracting Officer)  
16C. DATE SIGNED  
**10/22/13**

**Part III - Section J**  
**Appendix G**  
**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. This List excludes directives that have been granted an exemption from the CRD in whole or in part. For those Directives whereby the Contractor has been granted an exemption from the CRD, the Contractor shall comply only with the Operating Requirements identified in Appendix G-1. Directives identified in Appendix G-1 are for reference purposes only.

Bolded directives have been reviewed by the Joint Operating Requirements Review Board (JORRB).

<b>DIRECTIVE NUMBER</b>	<b>DATE</b>	<b>DOE DIRECTIVE TITLE</b>
APPH Chapter X Revision 10	9/08/98	Accounting Practices & Procedures Handbook Chapter X - Product Cost Accounting
DOE O 130.1	9/29/95	Budget Formulations Process
DOE M 140.1-1B	3/30/01	Interface with the Defense Nuclear Facilities Safety Board
DOE O 142.1	1/13/04	Classified Visits Involving Foreign Nationals
<b>DOE O 142.2A, Admin Chg 1 dated 6/27/13</b>	<b>12/15/06</b>	<b>Safeguards Agreement and Protocol with the International Atomic Energy Agency</b>
<b>DOE M 142.2-1, Admin Chg 1 dated 6/27/13</b>	<b>9/04/08</b>	<b>Manual for the Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency</b>
DOE O 142.3A	10/14/10	Unclassified Foreign Visits and Assignments Program
DOE O 144.1, Chg 1 dated 11/6/09	1/16/09	Department of Energy American Indian Tribal Government Interactions and Policy
DOE O 150.1	5/8/08	Continuity Programs
DOE O 151.1C	11/02/05	Comprehensive Emergency Management System
DOE O 153.1	6/27/07	Departmental Radiological Emergency Response Assets
DOE N 153.2	8/11/03	Connectivity to National Atmospheric Release Advisory Center (NARAC)
DOE M 200.1-1	2/15/00	Chapter 9 Public Key Cryptography and Key Management
<b>DOE O 205.1B, Admin Chg 1 dated 12/7/12</b>	<b>5/16/11</b>	<b>Department of Energy Cyber Security Program</b>
DOE M 205.1-3, Admin Chg 1 dated 12/20/12	4/17/06	Telecommunications Security Manual <sup>1</sup>
DOE O 206.1	1/16/09	Department of Energy Privacy Program
<b>DOE O 206.2</b>	<b>2/19/13</b>	<b>Identify, Credential, and Access Management (ICAM)<sup>2</sup></b>
<b>DOE O 210.2A</b>	<b>4/08/11</b>	<b>DOE Corporate Operating Experience Program</b>
DOE O 221.1A	4/19/08	Reporting Fraud, Waste, and Abuse to the Office of Inspector General
DOE O 221.2A	2/25/08	Cooperation With The Office of Inspector General
<b>DOE O 225.1B</b>	<b>3/04/11</b>	<b>Accident Investigations</b>
<b>DOE O 226.1B</b>	<b>4/25/11</b>	<b>Implementation of Department of Energy Oversight Policy</b>

<sup>1</sup> 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.

<sup>2</sup> Full implementation of DOE Information System requirements will be achieved after an implementation plan is approved.

<b>DIRECTIVE NUMBER</b>	<b>DATE</b>	<b>DOE DIRECTIVE TITLE</b>
DOE O 227.1	8/30/11	Independent Oversight Program
DOE O 231.1B, Admin Chg 1 dated 11/28/12	6/27/11	Environment, Safety and Health Reporting
DOE O 232.2	8/30/11	Occurrence Reporting and Processing of Operations Information
DOE O 241.1B	12/13/10	Scientific and Technical Information Management <sup>3</sup>
DOE O 243.1B, Admin Chg 1 dated 7/8/13	3/11/13	Records Management Program <sup>4</sup>
DOE O 252.1A, Admin Chg 1, dated 3/12/13	2/23/11	Technical Standards Program
DOE O 313.1	11/19/09	Management and Funding of the Department's Overseas Presence
DOE O 350.1, Chg 3 dated 2/23/10	9/30/96	Contractor Human Resource Management Programs <sup>5</sup>
NA SD 350.2	11/16/11	Use of Management and Operating Contractor Employees for Services to NNSA in the Washington, D.C., Area
DOE O 350.2B	05/31/11	Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, D.C., Area
DOE O 410.2	8/17/09	Management of Nuclear Materials
DOE O 412.1A	4/21/05	Work Authorization System
DOE O 413.1B	10/28/08	Internal Control Program
DOE O 413.2B, Admin Chg 1 dated 1/31/11	4/19/06	Laboratory Directed Research & Development
DOE O 413.3B	11/29/10	Program and Project Management for the Acquisition of Capital Assets <sup>6</sup>
DOE O 414.1D, Admin Chg 1, dated 5/8/13	4/25/11	Quality Assurance
DOE O 415.1, Admin Chg 1 dated 1/16/13	12/3/12	Information Technology Project Management
DOE O 420.1B, Chg 1 dated 4/19/10	12/22/05	Facility Safety
DOE O 420.2C	7/21/11	Safety of Accelerator Facilities
DOE O 422.1, Admin Chg 1 dated 6/25/13	6/29/10	Conduct of Operations
DOE O 425.1D, Admin Chg 1, dated 4/2/13	4/16/10	Verification of Readiness to Start Up or Restart Nuclear Facilities
DOE O 426.2, Admin Chg 1, dated 7/29/13	4/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities

<sup>3</sup> Implementation of the requirement(s) in paragraph 3. of the Contractor Requirements Document (CRD) will be achieved in accordance with an approved implementation plan: [name of subprogram].

<sup>4</sup> Full implementation will occur in accordance with a Sandia Field Office (SFO) approved implementation plan.

<sup>5</sup> (a) For purposes of Chapter VI-5, paragraph 1, Basic Requirements, subparagraph (d), effective January 22, 2013, the Contractor shall perform an annual limited scope-audit of the Contractor pension plan except that a full-scope audit shall be performed once every three years.

(b) Excludes Chapters VIII Contractor Workplace Substance Abuse Programs and IX Employee Assistance Programs due to exemption granted on December 9, 2010, by the NNSA Administrator.

<sup>6</sup> The annual Value Engineering accomplishment progress report required by paragraph c.9. of the CRD shall be submitted to OECM through the SFO.

<b>DIRECTIVE NUMBER</b>	<b>DATE</b>	<b>DOE DIRECTIVE TITLE</b>
DOE O 430.1B, Chg. 2 dated 04/25/11	9/24/03	Real Property and Asset Management
DOE O 433.1B, Admin Chg 1, dated 3/12/13	4/21/10	Maintenance Management Program for DOE Nuclear Facilities
DOE N 435.1	8/09/11	Contact-Handled and Remote-Handled Transuranic Waste Packaging
DOE O 435.1, Chg. 1 dated 8/28/01	7/09/99	Radioactive Waste Management
DOE O 440.2C, Chg. 1 dated 6/15/11	11/27/02	Aviation Management and Safety
DOE M 441.1-1	3/07/08	Nuclear Material Packaging Manual <sup>7</sup>
DOE O 442.2	7/29/11	Differing Professional Opinions for Technical Issues Involving Environmental, Safety, and Health Technical Concerns
DOE O 443.1B	3/17/11	Protection of Human Research Subjects
DOE O 452.1D, Admin Chg 1 dated 7/10/13	4/14/09	Nuclear Explosive and Weapon Surety Program
DOE M 452.2-1A, Admin Chg 1 dated 7/10/13	4/14/09	Nuclear Explosive Safety Manual
DOE M 452.2-2, Admin Chg 1 dated 7/10/13	4/14/09	Nuclear Explosive Safety Evaluation Processes
DOE O 452.2D, Admin Chg 1 dated 7/10/13	4/14/09	Nuclear Explosive Safety
DOE O 452.3	6/08/05	Management of the Department of Energy Nuclear Weapons Complex
DOE O 452.4B	1/22/10	Security and Use Control of Nuclear Explosives and Nuclear Weapons
DOE O 452.6A	4/14/09	Nuclear Weapon Surety Interface with the Department of Defense
DOE O 452.7	5/14/10	Protection of Use Control Vulnerabilities and Designs
DOE O 452.8	7/21/11	Control of Nuclear Weapons Data
DOE O 456.1, Admin Chg 1 dated 2/14/13	5/31/11	The Safe Handling of Unbound Engineered Nanoparticles
DOE O 457.1A	8/26/13	Nuclear Counterterrorism
DOE O 458.1, Admin Chg 3 dated 1/15/13	2/11/11	Radiation Protection of the Public and the Environment
DOE O 460.1C	5/14/10	Packaging and Transportation Safety
DOE O 460.2A	12/22/04	Departmental Materials Transportation & Packaging Management
DOE M 460.2-1A	6/04/08	Radioactive Material Transportation Practices
DOE O 461.1B	12/16/10	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest
DOE O 461.2	11/01/10	Onsite Packaging and Transfer of Materials of National Security Interest

<sup>7</sup> (a) Sandia shall repackage all nuclear materials that fall under the requirements of DOE M 441.1-1 remaining on-site after FY 2015 that do not have an identified disposition path. These materials will need to be packaged before the end of FY 2014 or as soon as appropriate packaging is identified and approval is obtained through the SFO. Sandia will determine the appropriate packaging and SFO will concur/approve. Packaging designs will be approved by a Field Office and reviewed by the NNSA/Albuquerque Complex Packaging Certification Division prior to use.

(b) New material that Sandia acquires from various programs and projects that is subject to DOE M 441.1-1 must have an approved container for storage, or Sandia must have a plan (approved by SFO) in place to develop a container to comply with the packaging and storage requirements, when it comes on site.

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE
DOE O 462.1, Admin Chg. 1 dated 7/10/13	11/10/08	Import and Export of Category 1 and 2 Radioactive Sources and Aggregated Quantities
DOE O 470.3B	8/12/08	Graded Security Protection (GSP) Policy
DOE M 470.4-1, Chg. 2 dated 10/20/10	8/26/05	Safeguards and Security Program Planning and Management <sup>8</sup>
DOE O 470.4B, Admin Chg 1 dated 2/15/13	7/21/11	Safeguards and Security Program <sup>9</sup>
DOE M 470.4-3A	11/05/08	Contractor Protective Force
DOE M 470.4-4A	1/16/09	Information Security Manual <sup>10</sup>
DOE O 471.1B	3/01/10	Identification and Protection of Unclassified Controlled Nuclear Information
DOE O 471.3, Admin Chg. 1 dated 1/13/11	4/09/03	Identifying and Protecting Official Use Only Information
DOE M 471.3-1, Admin Chg. 1 dated 1/13/11	4/09/03	Manual for Identifying and Protecting Official Use Only Information
DOE O 471.5	3/29/11	Special Access Program
DOE O 472.2	7/21/11	Personnel Security
DOE O 474.2, Admin Chg 2 dated 11/19/12	6/27/11	Nuclear Material Control and Accountability
DOE O 475.1	12/10/04	Counterintelligence Program
DOE O 475.2A	2/01/11	Identifying Classified Information
DOE O 534.1B	1/06/03	Accounting
DOE O 551.1D	4/02/12	Official Foreign Travel <sup>11</sup>
DOE O 580.1, Chg 1 dated 5/08/08	12/07/05	Department of Energy Personal Property Management Program
DOE 5400.5 Chg. 2 dated 1/7/93	2/8/90	Radiation Protection of the Public & the Environment <sup>12</sup>
DOE 5480.30, Chg. 1 dated 3/14/01	1/19/93	Nuclear Reactor Safety Design Criteria
56XB Rev. 2	5/10/04 (Release Date)	Nuclear Weapon Development and Production <sup>13</sup>
NAP 14.1-D	12/14/12	Baseline Cyber Security Program <sup>14</sup>
NAP 14.3-B	5/02/08	Transmission of Restricted Data Over Secret Internet Protocol Router Network (SIPRNet)

<sup>8</sup> Excluding Section N, *Incidents of Security Concern*, as it is captured in Attachment 5, *Incidents of Security Concern*, of DOE O 470.4B, Admin Chg 1

<sup>9</sup> DOE M 470.4-1, Chg. 2 replaces DOE O 470.4B, Admin Chg 1 except Attachment 5, *Incidents of Security Concern*.

<sup>10</sup> NAP 70.4, Chg 1, dated 07/2/2011, replaced DOE M 470.4-4A, except the classified *Technical Surveillance Countermeasures Annex*.

<sup>11</sup> Full implementation will occur after the DOE reprogramming effort.

<sup>12</sup> DOE O 458.1, dated 2/11/11, cancels DOE O 5400.5 Chg 2, dated 1-7-93, except for Chapter III, *Derived Concentration Guidelines*, and Figure IV-1, *Surface Contamination Guidelines*.

<sup>13</sup> Chapters within 56XB, *Nuclear Weapon Development and Production (D&P) Manual*, will stay in effect until specific *Nuclear Weapon D&P Manual* chapters and associated Technical Business Practices are replaced using the Requirements Modernization and Integration (RMI) process, within the RMI Explorer, as described in contract clause H-33(e) and NA SD M 452.3-1.

<sup>14</sup> Sandia Cyber Security Program Execution Guidance and Annual Operating Plan will be used in lieu of NAP 21 to define performance expectations for the cyber security program.

<b>DIRECTIVE NUMBER</b>	<b>DATE</b>	<b>DOE DIRECTIVE TITLE</b>
NAP 70.2, Chg 1	7/20/11	Physical Protection
NAP 70.4, Chg 1	7/20/11	Information Security <sup>15</sup>
NNSA SD M 452.3-1	12/10/09	Defense Programs Business Requirements and Processes Manual <sup>16</sup>

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<sup>15</sup> NAP 70.4, Chg 1, dated 07/2/2011, replaced DOE M 470.4-4A, except for the classified Technical Surveillance Countermeasures Annex.

<sup>16</sup> Changes to the NNSA Supplemental Directive NA SD M 452.3-1, *Defense Programs Business Requirements and Processes Manual*, and the RMI derived requirements, are processed as described in contract clause H-33(e).