

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1
OF
3 PAGES

2. AMENDMENT/MODIFICATION NO. 165	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 Manager, Los Alamos Site Office 3747 West Jemez Road Los Alamos, NM 87544		7. ADMINISTERED BY (If other than Item 6)	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, state, ZIP Code) Los Alamos National Security, LLC 4200 West Jemez Road Suite 400 Los Alamos, NM 87544		9A. AMENDMENT OF SOLICITATION NO.	9B. DATED (SEE ITEM 11)
CODE	FACILITY CODE	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC52-06NA25396	10B. DATED (SEE ITEM 13) December 21, 2005

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)

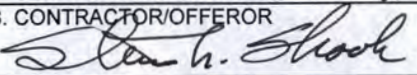
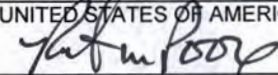
**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS;
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

<input type="checkbox"/>	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.
<input type="checkbox"/>	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).
<input checked="" type="checkbox"/>	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: P. L. 95-91 and Other Applicable Laws
<input type="checkbox"/>	D. OTHER (Specify type of modification and authority):
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return <u>1</u> copies to the issuing office.	

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

See Page 2.

Except as provided herein, all terms and conditions of the document referenced in Items 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) Steve K. Shook, Office Director Prime Contract Management Office Los Alamos National Security, LLC		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Robert M. Poole Contracting Officer Los Alamos Site Office	
15B. CONTRACTOR/OFFEROR BY  (Signature of person authorized to sign)	15C. DATE SIGNED 5/27/11	16B. UNITED STATES OF AMERICA BY  (Signature of Contracting Officer)	16C. DATE SIGNED 5/27/2011

The purpose of this modification is as follows:

- A. Clause B-2, Contract Type and Value, paragraph (f)(3), is revised and replaced with the following new Clause B-2(f)(3):
 - (f)(3) The Fixed Fee for Reimbursable work for FY 2011 and each subsequent fiscal year shall be paid in equal monthly increments at the rate of one-twelfth (1/12) of the annual amount per month.

- B. Clause I-116, FAR 52.250-1, INDEMNIFICATION UNDER PUBLIC LAW 85-804 (APR 1984) ALTERNATE I (APR 1984) (DEVIATION), is modified by adding the following paragraph. The revised clause is provided as Attachment 1 to this modification.
 - (j)(5) Participation in tasks or activities by the Contractor or its subcontractors on or after March 11, 2011 that is directed or authorized by the U. S. Department of Energy or the U.S. Department of Energy National Nuclear Security Administration as an element of activities taken in response to the Japanese earthquake and tsunami, including efforts to address and assess damage to nuclear power plants and potential radioactive releases from these plants now and in the future.

- C. Section J, Appendix D, Key Personnel, is modified and replaced with the new Section J, Appendix D, Attachment 2 to this modification. This change reflects selection of the Director; Principal Associate Director, Operations & Business; the Principal Associate Director, Capital Projects; the Associate Director for Information Technology; and the Associate Director, Engineering & Engineering Sciences positions.

- D. Part III, Section J, Appendix G, List of Applicable Directives, is modified and replaced with updated Section J, Appendix G, List of Applicable Directives, Attachment 3 to this modification.

The following DOE and NNSA Directives are added:

NUMBER	DATE	TITLE
DOE O 225.1B, Attachment 1 CRD	03/04/11	Accident Investigations
DOE O 252.1A, Attachment 1 CRD	02/23/11	Technical Standards Program
DOE O 458.1 Chg 1 Attachment 1 CRD	03/08/11	Radiation Protection of the Public and The Environment Note: Commence Implementation October 1, 2011
DOE O 461.2, Attachment 1 CRD	10/31/10	Onsite Packaging and Transfer of Materials of National Security Interest
DOE O 461.1B, Attachment 1 CRD	12/20/10	Packaging and Transportation for Offsite Shipment of Materials of National Security

The following DOE Directives are deleted in their entirety:

NUMBER	DATE	TITLE
DOE O 110.3A	01/25/07	Conference Management (cancelled by DOE N 251.97)
DOE O 225.1A	11/26/97	Accident Investigations
DOE O 252.1	11/19/99	Technical Standards Program
DOE O 461.1A	04/26/04	Packaging and Transfer or Transportation of Materials of National Security Interest
DOE M 461.1-1 Chg 1	07/26/05	Packaging and Transfer of Materials of National Security Interest Manual
DOE M 470.4-7	08/25/05	Safeguards and Security Program References (cancelled by DOE N 251.84)
DOE O 5400.5 Chg 2	01/07/93	Radiation Protection of the Public and The Environment

End of Modification

**I-116 FAR 52.250-1 INDEMNIFICATION UNDER PUBLIC LAW 85-804 (APR 1984)
ALTERNATE I (APR 1984) (DEVIATION)**

- (a) “Contractor’s principal officials,” as used in this clause, means directors, officers, managers, superintendents, or other representatives supervising or directing--
 - (1) All or substantially all of the Contractor’s business;
 - (2) All or substantially all of the Contractor’s operations at any one plant or separate location at which this contract is being performed; or
 - (3) A separate and complete major industrial operation in connection with the performance of this contract.

- (b) Under Public Law 85-804 (50 U.S.C. 1431-1435) and Executive Order 10789, as amended, and regardless of any other provisions of this contract, the Government shall, subject to the limitations contained in the other paragraphs of this clause, indemnify the Contractor against--
 - (1) Claims (including reasonable expenses of litigation or settlement) by third persons (including employees of the Contract) for death; personal injury; or loss of, damage to, or loss of use of property;
 - (2) Loss of, damage to, or loss of use of Contractor property, excluding loss of profit; and
 - (3) Loss of, damage to, or loss of use of Government property, excluding loss of profit.

- (c) This indemnification applies only to the extent that the claim, loss, or damage (1) arises out of or results from a risk defined in this contract as unusually hazardous or nuclear and (2) is not compensated for by insurance or otherwise. Any such claim, loss, or damage, to the extent that it is within the deductible amounts of the Contractor’s insurance, is not covered under this clause. If insurance coverage or other financial protection in effect on the date the approving official authorizes use of this clause is reduced, the Government’s liability under this clause shall not increase as a result.

- (d) When the claim, loss, or damage is caused by willful misconduct or lack of good faith on the part of any of the Contractor’s principal officials, the Contractor shall not be indemnified for -
 - (1) Government claims against the Contractor (other than those arising through subrogation); or

- (2) Loss or damage affecting the Contractor's property.
- (e) With the Contracting Officer's prior written approval, the Contractor may, in any subcontract under the contract, indemnify the subcontractor against any risk defined in this contract as unusually hazardous or nuclear. This indemnification shall provide, between the Contractor and the subcontractor, the same rights and duties, and the same provisions for notice, furnishing of evidence or proof, and Government settlement or defense of claims as this clause provides. The Contracting Officer may also approve indemnification of subcontractors at any lower tier, under the same terms and conditions. The Government shall indemnify the Contractor against liability to subcontractors incurred under subcontract provisions approved by the Contracting Officer.
- (f) The rights and obligations of the parties under this clause shall survive this contract's termination, expiration, or completion. The Government shall make no payment under this clause unless the agency head determines that the amount is just and reasonable. The Government may pay the Contractor or subcontractors, or may directly pay parties to whom the Contractor or subcontractors may be liable.
- (g) The Contractor shall -
- (1) Promptly notify the Contracting Officer of any claim or action against, or any loss by, the Contractor or any subcontractors that may reasonably be expected to involve indemnification under this clause;
 - (2) Immediately furnish to the Government copies of all pertinent papers the Contractor receives;
 - (3) Furnish evidence or proof of any claim, loss, or damage covered by this clause in the manner and form the Government requires; and
 - (4) Comply with the Government's directions and execute any authorizations required in connection with settlement or defense of claims or actions.
- (h) The Government may direct, control, or assist in settling or defending any claim or action that may involve indemnification under this clause.
- (i) The cost of insurance (including self-insurance programs) covering a risk defined in this contract as unusually hazardous or nuclear shall not be reimbursed except to the extent that the Contracting Officer has required or approved this insurance.

The Government's obligations under this clause are -

- (1) Excepted from the release required under this contract's clause relating to allowable cost; and
 - (2) Not affected by this contract's Availability of Funds or Obligation of Funds clause.
- (j) The term "a risk defined in this contract as unusually hazardous or nuclear" means the risk of legal liability to third parties (including legal costs as defined in paragraph (jj) of section 11 of the Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2014(jj), notwithstanding the fact that the claim or suit may not arise under section 170 of said Act, 42 U.S.C. §2210) arising from actions or inactions in the course of the following work performed by the Contractor under the Contract:
- (1) Participation in --
 - (i) DOE's Nuclear Emergency Search Team ("NEST") outside the United States,
 - (ii) DOE's Accident Response Group ("ARG") outside the United States, or
 - (iii) DOE's Joint Technical Operations Team ("JTOT") outside the United States,
- to the extent participation in activities described in subparagraphs (i), (ii) or (iii) above involves nuclear activities involving real or suspected nuclear weapons, nuclear weapons components, or nuclear materials which can be readily utilized either (A) for the production or the fabrication of nuclear weapons without substantial further effort; or (B) for intentional widespread contamination or dispersal of harmful nuclear materials, whether or not such real or suspected weapons, components, or harmful nuclear materials are owned by the United States; and
- (2)
 - (i) Repairs and maintenance of United States-owned nuclear weapons, requested by the Department of Defense under DOE's Stewardship role for the United States nuclear weapons stockpile.
 - (ii) Repairs and maintenance of United Kingdom-owned nuclear weapons requested by the Ministry of Defense of the United Kingdom, as directed or approved by the President of the United States, the Secretary of Energy, the Deputy Secretary of Energy, or the Under Secretary of Energy.

- (iii) Participation in DOE's Materials Protection Control and Accountability (MPC&A) program including cooperative work outside the United States on the design and implementation of MPC&A systems for facilities processing, handling, and storing nuclear materials, and the transportation of nuclear materials; provision of U.S.-manufactured equipment, and procurement of equipment for installation in facilities in order to implement the above systems; and training in the design, use and assessment of MPC&A systems.
 - (iv) Participation in the U.S.-Russian Plutonium Disposition Program including cooperative work outside the United States on the demonstrations of alternative technologies for converting weapons-origin plutonium into forms unsuitable for direct weapons applications, and subsequently into forms suitable for ultimate disposition; technical support for the construction and demonstration of a pilot line for Russian plutonium conversion/disposition of weapons-origin plutonium; and technical support for the construction of a Russian production line for conversion and/or disposition of Russian weapons-origin plutonium.
- (3) Other activities relating to non-proliferation, emergency response, anti-terrorism activities, or critical national security activities that involve the use, detection, identification, assessment, control, containment, dismantlement, characterization, packaging, transportation, movement, storage, or disposal of nuclear, radiological, chemical, biological, or explosive materials, facilities or devices, provided such activities are specifically requested or approved, in writing, by the President of the United States, the Secretary of Energy, the Deputy Secretary of Energy, or the Under Secretary for Nuclear Security, and further provided that the request or approval specifically identifies the particular requested or approved activity and makes the indemnity provided by this clause applicable to that particular activity because it involves extraordinary risks.
- (4) For purposes of implementation of Paragraph (j) of Contract Clause entitled I-116 FAR 52.250-1 indemnification under Public Law 85-804 (Alternate 1) (APR 1984) (Deviation), the parties agree to the following: Los Alamos National Security, LLC is indemnified under P.L. 85-804 for activities directed or authorized by the Department of Energy, including National Nuclear Security Administration, on or after April 24, 2010, in response to the Deepwater Horizon disaster, per the Secretarial Determination Authorizing Public Law 85-804 Indemnification for

Contractors Engaged in Activities Responding to the Deepwater Horizon Disaster, dated July 2, 2010.

- (5) Participation in tasks or activities by the Contractor or its subcontractors on or after March 11, 2011 that is directed or authorized by the U. S. Department of Energy or the U.S. Department of Energy National Nuclear Security Administration as an element of activities taken in response to the Japanese earthquake and tsunami, including efforts to address and assess damage to nuclear power plants and potential radioactive releases from these plants now and in the future.

- (k) This clause provides indemnification for the unusually hazardous or nuclear risks defined herein which are not covered by the Price Anderson Act (section 170d of the Atomic Energy Act of 1954, as amended 42 U.S.C. § 2210(d) or where the indemnification provided by the Price Anderson Act is limited by the restriction on public liability imposed by section 170e of the Atomic Energy Act of 1954, as amended, (42 U.S.C. § 2210(e)) to an amount which is not sufficient to provide complete indemnification for the legal liability to which the Contractor is exposed.

- (l) Additional definitions applicable to this clause.
 - (1) the term "Contractor" except as used in paragraphs (a) and (e) means
 - (i) Los Alamos National Security LLC, and
 - (ii) Los Alamos National Security LLC's members: the University of California, Bechtel National, Inc., Washington Group International, and BWX Technologies, Inc., including, if applicable, the ultimate parent companies and the affiliates of each, and
 - (iii) employees, officers, and directors or any of the foregoing named or threatened to be named as defendants in lawsuits or litigation threatened or initiated by third parties which seek to impose or establish, or which could result in, a risk which is defined in this contract as unusually hazardous or nuclear, on account of actions or inactions of Los Alamos National Security LLC, or on account of the actions or inactions undertaken by the corporations or individuals identified in subparagraphs (a), (b), or (c) for, and on behalf of,

or with respect to, Los Alamos National Security
LLC, under this contract;

- (2) the term "Contractor" as used in paragraphs (a), and (e) means Los Alamos National Security LLC;
- (3) the term "Contractor's business" as used in this clause means the management and operation of the Government's facilities at Los Alamos, New Mexico, for the Department of Energy under this contract;
- (4) the terms "Contractor's operations at any one plant or separate location in which this contract is being performed" and "a separate and complete major industrial operation in connection with the performance of this contract" as used in this clause means the Government's facilities located at Los Alamos, New Mexico;
- (5) the term "nuclear materials" as used in this clause means source, special nuclear, or byproduct materials as those terms are defined in Section 11 of the Atomic Energy Act of 1954, as amended, 42 U.S.C. § 2014;
- (6) the term "agency head" as used in this clause means the Secretary of Energy; and
- (7) the term "affiliate" as used in this clause means the member companies of Los Alamos National Security LLC (the University of California, Bechtel National, Inc., Washington Group International, and BWX Technologies, Inc., and, if applicable, the parent companies of each including the ultimate parent company of each) as well as companies, other than Los Alamos National Security LLC, that directly or indirectly, are owned or otherwise controlled by the member companies of Los Alamos National Security LLC.

Part III – Section J

APPENDIX D

LISTING OF KEY PERSONNEL

May 27, 2011

<u>TITLE</u>	<u>NAME</u>
Laboratory Director	Charles McMillan
Deputy Laboratory Director	Isaac E. Richardson
Principal Associate Director, Weapons Programs	Vacant
Principal Associate Director, Operations & Business	Carl Beard
Principle Associate Director, Global Security	William Rees
Principal Associate Director, Science Technology & Engineering	Terry Wallace
Principal Associate Director, Capital Projects	Paul Henry
Associate Director, Plutonium Science & Manufacturing	Vacant
Associate Director, Weapons	Bret Knapp
Associate Director, Business Services	Mark Barth
Associate Director, Environment, Safety, Health & Quality	James Cantwell
Associate Director, Nuclear & High Hazard Operations	Robert McQuinn
Associate Director, Project Management	Vacant
Associate Director, Maintenance & Infrastructure Planning	Vacant
Associate Director, Safeguards & Security	Michael Lansing
Associate Director, Environmental Programs	Michael Graham
Associate Director, Threat Identification and Response	W. Scott Gibbs
Associate Director, Chemistry, Life & Earth Sciences	Vacant
Associate Director, Engineering & Engineering Sciences	Steven Girrens
Associate Director, Experimental Physical Sciences	Susan Seestrom
Associate Director, Information Technology	Carolyn Zerkle
Associate Director, Theory, Simulation & Computation	Alan Bishop
Contractor Assurance Officer	Roland Knapp
Chief Financial Officer	Glenn Kizer
Chief Prime Contracts	Steve Shook

PART III - SECTION J

APPENDIX G

May 27, 2011

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:

- <http://directives.doe.gov/cqi-bin/currentchecklist>
- <http://www.directives.doe.gov/directives/globesearch-adv.html>
- <http://www.nnsa.doe.gov/>
- <http://www.eh.doe.gov/techstds/standard/standard.html>
- <http://int.lanl.gov/orga/pcm/directives/html>

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
ANSI 8.22	1997	Nuclear Criticality Safety Based on Limiting and Controlling Moderators	
ANSI 8.23	1997	Nuclear Criticality Accident Emergency Planning and Response	
DOE O 130.1, Attachment 1 CRD	09/29/95	Budget Formulation	
DOE M 140.1-1B, Attachment 1 CRD	03/30/01	Interface with the Defense Nuclear Facilities Safety Board	
DOE O 142.1, Attachment 2 CRD	01/13/04	Classified Visits Involving Foreign Nationals	A019 04/26/07
DOE O 142.2A, Attachment 2 CRD	12/15/06	Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	M033 01/09/08
DOE M 142.2-1, Attachment 1 CRD	09/04/08	Manual for Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	M062 01/15/09
DOE O 142.3 Chg 1, Attachment 2 CRD	02/28/08	Unclassified Foreign Visits and Assignments Program	M046 06/11/08
DOE O 144.1 Admin Chg 1, Attachment 1 CRD	11/06/09	Department of Energy American Indian Tribal Government Interactions and Policy	M133 06/11/10
DOE O 150.1, Attachment 1 CRD	05/08/08	Continuity Programs	M103 10/06/09
DOE O 151.1C, Attachment 2 CRD	11/02/15	Comprehensive Emergency Management System	A015 01/25/07
DOE O 153.1, Attachment 2 CRD	06/27/07	Departmental Radiological Emergency Response Assets	M033 01/09/08
DOE O 200.1, Attachment 1 CRD	09/30/96	Information Management Program	
DOE M 200.1-1, Chapter 9	02/15/00	Public Key Cryptography and Key Management	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 205.1A, Attachment 1 CRD	12/04/06	Department of Energy Cyber Security Management	A019 04/26/07
DOE M 205.1-3	04/17/06	Telecommunications Security Manual	A019 04/26/07
DOE M 205.1-4, Attachment 1 CRD	03/08/07	National Security System Manual	A021 06/11/07
DOE M 205.1-8, Attachment 1 CRD	01/08/09	Cyber Security Incident Management Manual	M069 04/21/09
DOE O 206.1, Attachment 1 CRD	01/16/09	Department of Energy Privacy Program	M103 10/06/09
DOE N 206.4, Attachment 1 CRD	06/29/07	Personal Identity Verification	M033 01/09/08
DOE O 210.2, Attachment 2 CRD	06/12/06	DOE Corporate Operating Experience Program	A021 06/11/07
DOE O 221.1A, Attachment 1 CRD	04/19/08	Reporting Fraud, Waste, and Abuse to the Office of Inspector General	M056 10/08/08
DOE O 221.2A, Attachment 1 CRD	02/25/08	Cooperation With The Office of Inspector General	M062 01/15/09
DOE N 221.15	01/05/09	Reporting Fraud, Waste, and Abuse	M069 04/21/09
DOE O 224.2	03/22/01	Auditing of Programs and Operations	
DOE O 225.1B, Attachment 1 CRD	03/04/11	Accident Investigations	165 05/27/11
DOE O 226.1A, Attachment 1 CRD	07/31/07	Implementation of Department of Energy Oversight Policy	M033 01/09/08
DOE M 231.1-1A Chg 2, Attachment 1 CRD	06/12/07	Environment, Safety, and Health Reporting Manual	M033 01/09/08
DOE M 231.1-2, Attachment 2 CRD	08/19/03	Occurrence Reporting and Processing of Operations Information	
DOE N 234.1, Attachment 2 CRD	02/27/08	Reporting of Radioactive Sealed Sources	M046 06/11/08
DOE O 241.1A Chg 1, Attachment 1 CRD	10/14/03	Scientific and Technical Information Management	
DOE O 243.1, Attachment 2 CRD	02/03/06	Records Management Program	A018 03/29/07
DOE O 243.2, Attachment 2 CRD	02/02/06	Vital Records	A021 06/11/07
DOE O 251.1B, Attachment 1 CRD	08/16/06	Departmental Directives Program	A019 04/26/07
DOE M 251.1-1B, Attachment 1 CRD	08/16/06	Departmental Directives Program Manual	A019 04/26/07
DOE O 252.1A, Attachment 1 CRD	02/23/11	Technical Standards Program	165 05/27/11
DOE O 311.1B	02/12/03	Equal Employment Opportunity and Diversity Program	
DOE O 341.1A, Attachment 1 CRD	10/18/07	Federal Employee Health Services	M078 07/01/09
DOE O 350.1 Chg 1, Attachment 1 CRD	05/08/98	Contractor Human Resource Management Programs	A018 03/29/07

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 350.2A, Attachment 2 CRD	10/29/03	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, Attachment 1 CRD	08/17/09	Management of Nuclear Materials	M133 06/11/10
DOE O 412.1A	04/21/05	Work Authorization System	A019 04/26/07
DOE O 413.1B, Attachment 1 CRD	10/28/08	Internal Control Program	M103 10/06/09
DOE O 413.2B, Attachment 2 CRD	04/19/06	Laboratory Directed Research and Development	A019 04/26/07
DOE O 413.3B, Attachment 1 CRD	11/29/10	Program and Project Management for the Acquisition of Capital Assets	157 01/21/11
DOE O 414.1C, Attachment 2 CRD	06/17/05	Quality Assurance	A009 09/29/06
DOE O 420.1B Chg 1, Attachment 2 CRD	04/19/10	Facility Safety	150 10/05/10
DOE O 420.2B, Attachment 2 CRD	07/23/04	Safety of Accelerator Facilities	
DOE O 422.1, Attachment 1 CRD	06/29/10	Conduct of Operations	157 01/21/11
DOE G 424.1-1B	04/08/10	Implementation Guide For Use In Addressing Unreviewed Safety Question Requirements	150 10/05/10
DOE O 425.1D, Attachment 1 CRD	04/16/10	Verification of Readiness to Start Up or Restart Nuclear Facilities	150 10/05/10
DOE O 426.2, Attachment 1 CRD	04/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	150 10/05/10
DOE O 430.1B Chg.1, Attachment 2 CRD	02/08/08	Real Property Asset Management	M046 06/11/08
DOE O 430.2B, Attachment 1 CRD	02/27/08	Departmental Energy, Renewable Energy, and Transportation Management	M046 06/11/08
DOE O 433.1B, Attachment 1 CRD	04/21/10	Maintenance Management Program for DOE Nuclear Facilities	150 10/05/10
DOE O 435.1 Chg 1, Attachment 1 CRD	08/28/01	Radioactive Waste Management	
DOE M 435.1-1 Chg 1	06/19/01	Radioactive Waste Management Manual	
DOE M 440.1-1A, Attachment 2 CRD	01/09/06	DOE Explosives Safety Manual	M033 01/09/08
DOE O 440.2B Chg 1, Attachment 2 CRD	11/19/06	Aviation Management and Safety	A019 04/26/07
DOE M 441.1-1, Attachment 1 CRD	03/07/08	Nuclear Material Packaging Manual	M056 10/08/08
DOE O 442.1A, Attachment 1 CRD	06/06/01	Department Of Energy Employee Concerns Program	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE M 442.1-1, Attachment 1 CRD	11/16/06	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety, and Health	A019 04/26/07
DOE O 443.1A, Attachment 1 CRD	12/20/07	Protection of Human Subjects	M042 04/14/08
DOE O 450.1A, Attachment 1 CRD	06/04/08	Environmental Protection Program	M056 10/08/08
DOE M 450.4-1, Attachment 1 CRD	11/01/06	Integrated Safety Management System Manual	M056 10/08/08
DOE O 452.1D, Attachment 1 CRD	04/14/09	Nuclear Explosive and Weapon Surety Program	M078 07/01/09
DOE O 452.2D, Attachment 1 CRD	04/14/09	Nuclear Explosive Safety	M078 07/01/09
DOE M 452.2-1A, Attachment 1 CRD	04/14/09	Nuclear Explosive Safety Manual	M078 07/01/09
DOE M 452.2-2, Attachment 1 CRD	04/14/09	Nuclear Explosive Safety Evaluation Processes	M078 07/01/09
DOE O 452.3, Attachment 2 CRD	06/08/05	Management of the Department of Energy Nuclear Weapons Complex	A021 06/11/07
DOE O 452.4A, Attachment 1 CRD	12/17/01	Security and Control of Nuclear Explosives and Nuclear Weapons	
DOE O 452.6A, Attachment 1 CRD	04/14/09	Nuclear Weapon Surety Interface with the Department of Defense	M078 07/01/09
DOE O 452.7, Attachment 1 CRD	5/14/10	Protection of Use Control Vulnerabilities and Designs	150 10/05/10
DOE N 456.1, Attachment 1 CRD	01/15/09	The Safe Handling of Unbound Engineered Nanoparticles (extended 04/19/11 by Notice 251.79)	M078 07/01/09
DOE O 457.1, Attachment 2 CRD	02/07/06	Nuclear Counterterrorism	A019 04/26/07
DOE M 457.1-1, Attachment 2 CRD	08/10/06	Control of Improvised Nuclear Device Information	A019 04/26/07
DOE O 458.1 Chg 1 Attachment 1 CRD	03/03/11	Radiation Protection of the Public and the Environment NOTE: Commence Implementation October 1, 2011	167 05/27/11
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DOE O 460.2A, Attachment 2 CRD	12/22/04	Departmental Materials Transportation and Packaging Management	A019 04/26/07
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DOE M 470.4-3A, Attachment 1 CRD	11/05/08	Contractor Protective Force	M078 07/01/09
DOE M 470.4-5, Attachment 2 CRD	08/26/05	Personnel Security	A015 01/25/07
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DOE M 471.1-1 Chg 1	10/23/01	Identification and Protection of Unclassified Controlled Nuclear Information Manual	
DOE M 471.2-3B	10/29/07	Special Access Program Policies, Responsibilities, and Procedures	M046 06/11/08
DOE O 471.3, Attachment 1 CRD	04/09/03	Identifying and Protecting Official Use Only Information	
DOE M 471.3-1, Attachment 1 CRD	04/09/03	Manual for Identifying and Protecting Official Use Only Information	
DOE O 475.1, Attachment 2 CRD	12/10/04	Counterintelligence Program	A015 01/25/07
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DOE O 483.1, Attachment 1 CRD	01/12/01	DOE Cooperative Research and Development Agreements	
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DOE O 5480.30 Chg 1	03/14/01	Nuclear Reactor Safety Design Criteria	
DOE O 5610.2 Chg 1	09/02/86	Control of Weapon Data	
DOE O 5639.8A	07/23/93	Security of Foreign Intelligence Information and Sensitive Compartmented Information Facilities	
DOE O 5670.1A	01/15/92	Management and Control of Foreign Intelligence	
DOE HDBK 1169-2003	December 2003	DOE Handbook Nuclear Air Cleaning Handbook (Chapter 8, Appendix A, B, C)	M062 01/15/09
DOE-STD-1027-92 Chg 1	September 1997	Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23 Nuclear Safety Analysis Reports	
DOE-STD-1183-2004	April 2004	Nuclear Safety Specialist Functional Area Qualification Standard	
DOE-STD-1186-2004	August 2004	Specific Administrative Controls	M042 04/14/08
DOE-STD-1189-2008	March 2008	Integration of Safety Into The Design Process	M046 06/11/08
DOE-STD-3009-94, Change Notice 3	April 2002	Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analysis	M042 04/14/08
DOE-STD-3011-2002	December 2002	Guidance for Preparation of Basis for Interim Operation (BIO) Documents	
DOE-STD-3013-2004	April 2004	Stabilization, Packaging, and Storage of Plutonium-Bearing Materials	
DOE-STD-3014-96	October 1996	Accident Analysis for Aircraft Crash into Hazardous Facilities	
DOE-STD-3015-2004	May 2004	Nuclear Explosive Safety Evaluation Process	M062 01/15/09
DOE-STD-3016-2006	May 2006	Hazard Analysis Reports for Nuclear Explosive Operations	M069 04/21/09
DOE-STD-5506-2007	April 2007	Preparation of Safety Basis Documents for Transuranic (TRU) Waste Facilities	M078 07/01/09
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