

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE	PAGE 1 OF 1
2. AMENDMENT/MODIFICATION NO. <b>291</b>	3. EFFECTIVE DATE July 25, 2012	4. REQUISITION/PURCHASE REQ. NO. NA27344	5. PROJECT NO. (If applicable)
6. ISSUED BY CODE		7. ADMINISTERED BY (If other than Item 6)	
U.S. Department of Energy/NNSA SC M&O Contract Support Division P.O. Box 5400 Albuquerque, NM 87185-5400		U.S. Department of Energy/NNSA Livermore Site Office M/S L-293 7000 East Avenue Livermore, CA 94550	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, country, State, and ZIP Code)		9A. AMENDMENT OF SOLICITATION NO.	
Lawrence Livermore National Security, LLC Lawrence Livermore National Laboratory M/S L-294 7000 East Avenue Livermore, CA 94550			
		9B. DATED (SEE ITEM 11)	
		X 10A. MODIFICATION OF CONTRACT/ ORDER NO. DE-AC52-07NA27344	
		10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE	May 8, 2007	
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 or as amended by one of the following methods: (a) By completing Items 8 and 25, 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 ACKNOWLEDGEMENT 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) see attached			
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.			
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN 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 data, 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: Clause H-19 Modification Authority, Clause I-120 changes, and Mutual Agreement		
	D. OTHER (Specify type of modification and authority)		
E. IMPORTANT: Contractor <u>X</u> 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.)			
1. The contract is hereby modified to incorporate Appendix G, List of Applicable Directives as revised and attached.			
2. All other terms and conditions remain unchanged.			
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.			
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
		Ronna Promani, Contracting Officer U.S. Department of Energy/NNSA	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
(Signature of person authorized to sign)		By (Signature of Contracting Officer)	7/25/2012

*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:

- <http://directives.doe.gov/cgi-bin/currentchecklist>
- <http://www.directives.doe.gov/directives/globsearch-adv.html>
- <http://www.nnsa.doe.gov/>
- <http://www.eh.doe.gov/techstds/standard/standard.html>

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 PLAN Y/N	MOD #	EFFECTIVE DATE
DOE O 110.3A	01/25/07	Conference Management, <i>CRD para 1.g.(4)(a), (b), (c) only</i> <sup>2</sup>	N/A	253	11/17/11
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 O 142.1	01/13/04	Classified Visits Involving Foreign Nationals	N/A	M003	10/01/07
DOE M 142.2-1	09/04/08	Manual for Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	N	M065	11/05/08
DOE O 142.2A	12/15/06	Voluntary Offer Safeguards Agreement and Additional Protocol with the IAEA	N/A	M003	10/01/07
DOE O 142.3A	10/14/10	Unclassified Foreign Visits and Assignments Program	Y	253	11/22/10
DOE O 150.1	05/08/08	Continuity Programs	Y	M065	09/24/08
DOE O 151.1C	11/02/05	Comprehensive Emergency Management System	N/A	M003	10/01/07
DOE O 153.1	06/27/07	Departmental Radiological Emergency Response Assets	N/A	M003	10/01/07
DOE O 200.1A	12/23/08	Information Technology Management	N/A	M065	02/06/09

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE O 205.1A	12/04/06	Department of Energy Cyber Security Management  Note: NAP-14.1C, 14.2C to 14.3B dated 05/02/08 are implemented through this directive. The NAPs are not accessible to the public.	Y	M037	10/01/07
DOE M 205.1-3	04/17/06	Telecommunications Security Manual  Note: This document is not accessible to the public.	Y	M003	10/01/07
DOE M 205.1-4	03/08/07	National Security Systems Manual	Y	M003	10/01/07
DOE M 205.1-5	08/12/08	Cyber Security Process Requirements Manual <i>This Manual is implemented by NAPs 14.1-C and 14.2-C dated 5/2/08. These NAPs are not accessible to the public.</i>	N	M065	09/29/08
DOE M 205.1-6	12/23/08	Media Sanitization Manual <i>This Manual is implemented by NAP 14.1-C dated 5/2/08. This NAP is not accessible to the public.</i>	N	M065	02/04/09
DOE M 205.1-7	01/05/09	Security Controls for Unclassified Information Systems <i>This Manual is implemented by NAPs 14.1-C and 14.2-C dated 5/2/08. These NAPs are not accessible to the public.</i>	N	M069	03/05/09
DOE M 205.1-8	02/08/09	Cyber Security Incident Management Manual <i>This Manual is implemented by NAPs 14.1-C and 14.2-C dated 5/2/08. These NAPs are not accessible to the public.</i>	N	M069	03/05/09
DOE O 206.1	01/16/09	Department of Energy Privacy Program <i>This Order is implemented by NAPs 14.1-C and 14.2-C dated 5/2/08. These NAPs are not accessible to the public.</i>	N	M069	03/05/09
DOE N 206.4	06/29/07	Personal Identity Verification	NA	M003	10/01/07
DOE O 210.2A	04/08/11	DOE Corporate Operating Experience Program	N	253	05/31/11
DOE O 221.1A	04/19/08	Reporting Fraud, Waste, and Abuse to the Office of Inspector General	N	M037	06/02/08
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
DOE O 227.1	08/30/11	Independent Oversight Program	N	253	10/27/11
DOE O 231.1B	06/27/11	Environment, Safety, and Health Reporting	N	253	08/25/11

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE O 232.2	08/30/11	Occurrence Reporting and Processing of Operations Information	N	253	01/01/12
DOE O 241.1B	12/13/10	Scientific and Technical Information Management	N	210	02/16/11
DOE O 243.1A	11/07/11	Records Management Program	Y	291	04/05/12
DOE O 243.2	02/02/06	Vital Records: <i>CRD Section 1.a &amp; c (1) to (8); Section 2; &amp; Section 3 only<sup>1</sup></i>	N	253	06/13/11
DOE O 252.1A	02/23/11	Technical Standards Program	N	210	03/15/11
DOE O 341.1A	10/18/07	Federal Employee Health Services Paragraph 4b and Attachment 1, Paragraph 2a only	Y	M003	01/07/08
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	N	253	07/06/11
NNSA SD O 350.2	11/16/11	Use of Management and Operating or Other Facility Management Contractor Employees for Services to NNSA in the Washington, D.C., Area	N	291	11/16/11
DOE O 410.2	08/17/09	Management of Nuclear Materials	N	151	06/10/10
DOE O 413.1B	10/28/08	Internal Control Program	N/A	M069	12/10/08
DOE O 413.2B, Admin Chg 1	04/19/06	Laboratory Directed Research & Development	N/A	210	03/03/11
DOE O 413.3B	11/29/10	Program and Project Management for the Acquisition of Capital Assets	N	210	01/05/11
DOE O 414.1D	04/25/11	Quality Assurance	N	253	06/06/11
DOE O 420.1B, Chg 1	04/19/10	Facility Safety	N/A	158	06/21/10
DOE O 420.2C	07/21/11	Safety of Accelerator Facilities	N	253	08/16/11
DOE O 422.1	06/29/10	Conduct of Operations	N	175	09/09/10
DOE O 425.1D	04/16/10	Verification of Readiness to Startup or Restart Nuclear Facilities	Y	165	07/29/10
DOE O 426.2	04/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE Nuclear Facilities	Y	165	07/14/10
DOE O 430.1B, Chg 2	04/25/11	Real Property Asset Management	N	253	06/07/11

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE O 433.1B	04/21/10	Maintenance Management Program for DOE Nuclear Facilities	Y	165	07/29/10
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, AdminChg 2	06/08/11	Radioactive Waste Management Manual	N	253	07/07/11
DOE O 436.1	05/02/11	Departmental Sustainability, <i>Only the following CRD Sections: 1<sup>st</sup> 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.</i>	N Contractor is ISO 14001 Certified	291	01/26/2012
DOE M 440.1-1A	01/09/06	DOE Explosives Safety Manual	N/A	M003	10/01/07
DOE O 440.2C, 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	07/29/11	Differing Professional Opinions for Technical Issues Involving ES&H Technical Concerns	N	253	09/12/11
DOE O 443.1B	03/17/11	Protection of Human Research Subjects	N	253	04/20/11
DOE O 452.1D	04/14/09	Nuclear Explosive and Weapon Surety Program	N	M093	06/16/09
DOE O 452.2D	04/14/09	Nuclear Explosive Safety	N	M093	06/16/09
DOE M 452.2-1A	04/14/09	Nuclear Explosive Safety Manual	N	M093	06/16/09
DOE M 452.2-2	04/14/09	Nuclear Explosive Safety Evaluation Processes	N	M093	06/16/09
DOE O 452.3	06/08/05	Management of the Department of Energy Nuclear Weapons Complex	N/A	M003	10/01/07
NNSA SD M 452.3-1	12/10/09	Defense Programs Business Requirements Manual and Processes Manual	N	158	02/25/10
DOE M 452.4-1A	03/11/04	Protection of Use Control Vulnerabilities and Designs	N/A	M003	10/01/07
DOE O 452.4B	12/17/01	Security and Control of Nuclear Explosives and Nuclear Weapons	N	158	04/06/10
DOE O 452.6A	04/14/09	Nuclear Weapon Surety Interface with the Department of Defense	N	M093	06/16/09

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DOE O 452.7	05/14/10	Protection of Use Control Vulnerabilities and Designs	N	158	06/24/10
DOE O 452.8	07/21/11	Control of Nuclear Weapon Data	N	253	08/30/11
DOE O 456.1	06/06/11	The Safe Handling of Unbound Engineered Nanoparticles	NA	258	08/22/11
DOE O 457.1	02/07/06	Nuclear Counterterrorism	N/A	M003	10/01/07
DOE M 457.1-1	08/10/06	Control of Improvised Nuclear Device Information	N/A	M003	10/01/07
DOE O 458.1, Admin Chg 2	06/06/11	Radiation Protection of the Public and the Environment	N	253	07/06/11
DOE O 460.1C	05/14/10	Packaging and Transportation Safety	N	158	07/01/10
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 461.1B	12/20/10	Packaging and Transfer or Transportation of Materials of National Security Interest	Y per CRD #27Info only	210	02/16/11
DOE O 461.2	11/01/10	Onsite Packaging and Transfer of Materials of National Security Interest	N	210	03/21/11
DOE O 470.3A	11/29/05	Design Basis Threat Policy (U)	N/A	M003	10/01/07
DOE M 470.4-1, Chg 1	08/26/05	Safeguards and Security Program Planning and Management	N/A	M003	10/01/07
NAP 70.2, Admin Chg 1	07/02/10	Physical Protection	N	253	08/11/10
DOE M 470.4-3A	11/05/08	Contractor Protective Force	Y	M071	03/09/09
NAP 70.4, Admin Chg 1	07/02/10	Information Security	N	253	08/11/10
DOE M 470.4-6, Chg 1	08/26/06	Nuclear Material Control and Accountability	N/A	M003	10/01/07
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	04/09/03	Manual for Identifying and Protecting Official Use Only Information	N/A	M003	10/01/07
DOE O 471.5	03/29/11	Special Access Programs	N	253	05/05/11
DOE O 472.2	07/27/11	Personnel Security <i>Implement on 01/21/12</i>	N	253	08/30/11
DOE O 475.1	12/10/04	Counterintelligence Program	N/A	M003	10/01/07
DOE O 475.2A	02/01/11	Identifying Classified Information	N	253	04/01/11

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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
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 483.1	01/12/01	DOE Cooperative Research & Development Agreements	N/A	M003	10/01/07
DOE O 484.1, Admin Chg 1	08/17/06	Reimbursable Work for Department of Homeland Security	N/A	253	04/07/11
DOE O 522.1	11/03/04	Pricing of Departmental Materials and Services: <i>CRD Paragraphs 1, 2 &amp; 3 only</i>	N/A	253	06/13/11
DOE O 534.1B	01/06/03	Accounting	N/A	M003	10/01/07
DOE O 551.1D	04/02/12	Official Foreign Travel	N	291	05/16/12
DOE O 580.1, Chg 1	12/07/05	Department of Energy Personal Property Management Program and 41 CFR 109-1.53, 41 CFR 109-38, and 41 CFR 109-50.1	N	M037	07/08/08
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-1020-2002	01/02	Natural Phenomena Hazards Design Evaluation Criteria for Department of Energy Facilities	N/A	M003	10/01/07
DOE STD-1021-1993 Change 1	04/02	Natural Phenomena Hazards Performance Categorization Guidelines for Structures, Systems, and Components	N/A	M003	10/01/07
DOE STD-1022-1994 Change 1	04/02	Natural Phenomena Hazards Characterization Criteria	N/A	M003	10/01/07
DOE STD-1023-1995 Change 1	04/02	Natural Phenomena Hazards Assessment Criteria	N/A	M003	10/01/07
DOE-STD-1027-1992, 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-1073-2003	10/03	Department of Energy Standard Configuration Management	Y	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 Dosimetry	N	210	04/01/11
DOE STD-1098-2008	10/08	DOE Standard Radiological Control	Y	M093	04/15/09
DOE HDBK 1129-2008	12/08	Tritium Handling and Safe Storage; <i>Section 6.6 Only</i>	N	159	05/26/10
DOE-STD-1186-2004	08/04	Specific Administrative Controls	N/A	M003	10/01/07
DOE-STD-1189-2008	03/08	Integration of Safety into the Design Process	N	M066	03/05/09
DOE STD-1190-2007	2007	DOE Standard Illness and Injury Surveillance Program Guidelines	N	291	02/01/10
DOE-STD-3006-2000	06/00	Planning and Conduct of Operational Readiness Reviews	N/A	M003	10/01/07
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-3013-2004	04/04	Stabilization, Packaging, And Storage Of Plutonium-Bearing Materials	N/A	M003	10/01/07



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DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	IMPLEMENTATION PLAN Y/N	MOD #	EFFECTIVE DATE
DOE-STD-3014-1996	10/96	Accident Analysis for Aircraft Crash into Hazardous Facilities	N/A	M003	10/01/07
DOE-STD-3016-2006	05/06	Hazard Analysis Reports for Nuclear Explosive Operations	N	M037	03/14/08
DOE STD-3020-2005	12/05	Specification for HEPA Filters Used by DOE Contractors	N/A	M003	10/01/07
DOE STD-7501-1999	12/99	The DOE Lessons Learned Program	N/A	M003	10/01/07
QC-1, Revision 10	02/10/04	DOE/NNSA Weapon Quality Policy (QC-1)  Note: This document is not accessible to the public.	N/A	M003	10/01/07
QP 100-1 Amendment 3	04/10/08	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	291	02/01/12
Development and Production Manual *	02/08/06	Development and Production Manual  Note: This document is not accessible to the public.	N/A	M003	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

\* 5/27/2010 Goodrum Memo: D&P Manual, Chapters 1.3, 2.7, 10.1, 11.1, and 11.7 are cancelled without replacement.

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

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<sup>1</sup>NNSA Memorandum dated 12/17/2010 from Donald L. Cook, Deputy Administrator for Defense Programs, to Alice C. Williams, Manager, Livermore Site Office; Subject: Strengthening Oversight Through Improving Contractor Requirements Documents in NNSA M&O Contracts.

<sup>2</sup>Directive cancelled but allowability of meals at conferences retained.

(A) Implementation of applicable directives.

(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.