

2. AMENDMENT/MODIFICATION NO. M046	3. EFFECTIVE DATE See Block 16 C	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
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6. ISSUED BY U.S. Department of Energy National Nuclear Security Administration Manager, Los Alamos Site Office 528 35 th Street Los Alamos, NM 87544	7. ADMINISTERED BY (If other than Item 6) CODE
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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) 10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC52-06NA25396 10B. DATED (SEE ITEM 13) December 21, 2005
CODE _____ FACILITY CODE _____	

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.**

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: Clause I-123 - 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 3 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 modify and replace Section J, Appendix G, List of Applicable Directives, with the new Section J, Appendix G, attached to this modification.

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) Rueben M. Rafferty, Office Director Prime Contract Management Office Los Alamos National Security, LLC	16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Caroline T. Crooks Contracting Officer Los Alamos Site Office
15B. CONTRACTOR/OFFEROR BY _____ (Signature of person authorized to sign)	15C. DATE SIGNED
16B. UNITED STATES OF AMERICA BY <u>Caroline T. Crooks</u> (Signature of Contracting Officer)	16C. DATE SIGNED <u>6/11/08</u>

Prime Contract Section J, Appendix G, *List of Applicable Directives*, is modified as follows:

The following DOE Directives are added:

NUMBER	DATE	TITLE
DOE O 142.3 Change 1	02/28/08	Unclassified Foreign Visits and Assignments
DOE N 221.14	12/20/07	Reporting Fraud, Waste, and Abuse
DOE N 234.1	02/27/08	Reporting of Radioactive Sealed Sources
DOE O 430.1B Change 1	02/08/08	Real Property Asset Management
DOE O 430.2B	02/27/08	Departmental Energy, Renewable Energy, and Transportation Management
DOE M 471.2-3B	10/29/07	Special Access Program Policies, Responsibilities, and Procedures
DOE O 475.2	08/28/07	Identifying Classified Information
DOE STD 1189-2008	March 2008	Integration of Safety Into the Design Process
BOP 003.08	05/30/08	Management and Operating Contractor Business Meals and Light Refreshment

The following DOE Directives are deleted in their entirety:

NUMBER	DATE	TITLE
DOE O 142.3	06/18/04	Unclassified Foreign Visits and Assignments
DOE O 430.1B	09/24/03	Real Property Asset Management
DOE O 430.2A	04/15/02	Departmental Energy and Utilities Management
DOE M 471.2-3A	07/11/02	Special Access Program Policies, Responsibilities, and Procedures

PART III - SECTION J

APPENDIX G

June 11, 2008

(Modified by Modifications A009, A015, A018, A019, A021, A027, M033, M041, M042, M046)

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>
- <http://int.lanl.gov/orgs/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 110.3	11/03/99	Conference Management	
DOE O 130.1	09/29/95	Budget Formulation	
DOE M 140.1-1B	03/30/01	Interface with the Defense Nuclear Facilities Safety Board	
DOE P 141.1	05/02/01	Department of Energy Management of Cultural Resources	
DOE O 142.1	1/31/04	Classified Visits Involving Foreign Nationals	A019 04/26/07
DOE O 142.2A	12/15/06	Safeguards Agreement and Protocol with the IAEA	M033 01/09/08
DOE O 142.3, Chg 1	02/28/08	Unclassified Foreign Visits and Assignments	M046 06/11/08
DOE O 151.1C	11/02/05	Comprehensive Emergency Management System	A015 01/25/07
DOE O 153.1	06/27/07	Departmental Radiological Emergency Response Assets	M033 01/09/08
DOE N 153.2	08/11/03	Connectivity to National Atmospheric Release Advisory Center (NARAC)	
DOE O 200.1	09/30/96	Information Management Program	
DOE M 200.1-1, Chapter 9	02/15/00	Public Key Cryptography and Key Management	
DOE O 205.1A	12/04/06	Department of Energy Cyber Security Management Program	A019 04/26/07

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE M 205.1-3	04/17/06	Telecommunications Security Manual	A019 04/26/07
DOE M 205.1-4	03/08/07	National Security System Manual	A021 06/11/07
DOE N 206.4	06/29/07	Personal Identity Verification	M033 01/09/08
DOE O 210.2	06/12/06	DOE Corporate Operating Experience Program	A021 06/11/07
DOE O 221.1	03/22/01	Reporting Fraud, Waste, and Abuse to the Office of Inspector General	
DOE O 221.2	03/22/01	Cooperation With The Office of Inspector General	
DOE N 221.14	12/20/07	Reporting Fraud, Waste, and Abuse	M046 06/11/08
DOE O 224.2	03/22/01	Auditing of Programs and Operations	
DOE O 225.1A	11/26/97	Accident Investigations	
DOE O 226.1A	07/31/07	Implementation of DOE Oversight Policy	M033 01/09/08
DOE M 231.1-1A, Chg. 2	06/12/07	Environment, Safety, and Health Reporting Manual	M033 01/09/08
DOE M 231.1-2	08/19/03	Occurrence Reporting and Processing of Operations Information	
DOE N 234.1	02/27/08	Reporting of Radioactive Sealed Sources	M046 06/11/08
DOE O 241.1A, Chg. 1	10/14/03	Scientific and Technical Information Management	
DOE O 243.1	02/03/06	Records Management Program	A018 03/29/07
DOE O 243.2	02/02/06	Vital Records	A021 06/11/07
DOE O 251.1B	08/16/06	Departmental Directives Program	A019 04/26/07
DOE M 251.1-1B	08/16/06	Departmental Directives Program Manual	A019 04/26/07
DOE O 252.1	11/19/99	Technical Standards Program	
DOE O 311.1B	02/12/03	Equal Employment Opportunity and Diversity Program	
DOE O 341.1	12/01/03	Federal Employee Health Services	
DOE O 350.1, Chg. 1	05/08/98	Contractor Human Resources Management	A018 03/29/07
DOE O 350.2A	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 412.1A	04/21/05	Work Authorization System	A019 04/26/07
DOE O 413.1A	04/18/02	Management Control Program	
DOE O 413.2B	04/19/06	Laboratory Directed Research & Development	A019 04/26/07
DOE O 413.3A	07/28/06	Program & Project Management for the Acquisition of Capital Assets	A021 06/11/07
DOE M 413.3-1	03/28/03	Project Management for the Acquisition of Capital Assets	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 414.1C	06/17/05	Quality Assurance	A009 09/29/06
DOE O 420.1B	12/22/05	Facility Safety	A015 01/25/07
DOE G 420.1-1	03/28/00	Nonreactor Nuclear Safety Design Criteria and Explosives Safety Criteria Guide for use with DOE O 420.1, Facility Safety	
DOE O 420.2B	07/23/04	Safety of Accelerator Facilities	
DOE G 421.1-2	10/24/01	Implementation Guide for Use in Developing Documented Safety Analyses to Meet Subpart B of 10 CFR 830	
DOE G 423.1-1	10/24/01	Implementation Guide For Use In Developing Technical Safety Requirements	
DOE G 424.1-1A	07/24/06	Implementation Guide For Use In Addressing Unreviewed Safety Question Requirements	A019 04/26/07
DOE O 425.1C	03/13/03	Startup and Restart of Nuclear Facilities	
DOE O 430.1B, Chg. 1	02/08/08	Real Property Asset Management	M046 06/11/08
DOE O 430.2B	02/27/08	Departmental Energy, Renewable Energy, and Transportation Management	M046 06/11/08
DOE O 433.1A	02/13/07	Maintenance Management Program for DOE Nuclear Facilities	A021 06/11/07
DOE O 435.1, Chg. 1	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	01/09/06	DOE Explosives Safety Manual	M033 01/09/08
DOE O 440.2B, Chg. 1	11/19/06	Aviation Management and Safety	A019 04/26/07
DOE O 442.1A	06/06/01	Department Of Energy Employee Concerns Program	
DOE M 442.1-1	11/16/06	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety, and Health	A019 04/26/07
DOE O 443.1A	12/20/07	Protection of Human Subjects	M042 04/14/08
DOE O 450.1, Admin Chg. 1	01/03/07	Environmental Protection Program	A019 04/26/07
DOE P 450.4	10/15/96	Safety Management System Policy	
DOE P 450.7	08/02/04	Environment, Safety and Health (ESH) Goals	
DOE O 452.1C	09/20/05	Nuclear Explosive and Weapon Surety Program	A019 04/26/07
DOE O 452.2C	06/12/06	Safety of Nuclear Explosive Operations	A019 04/26/07
DOE O 452.3	06/08/05	Management of the Department of Energy Nuclear Weapons Complex	A021 06/11/07
DOE M 452.4-1A	03/11/04	Protection of Use Control Vulnerabilities and Designs	
DOE O 452.4A	12/17/01	Security and Control of Nuclear Explosives and Nuclear Weapons	
DOE O 452.6	10/19/06	Nuclear Weapon Surety Interface with the Department of Defense	A019 04/26/07
DOE P 456.1	09/15/05	Secretarial Policy Statement on Nanoscale Safety	M042 04/14/08

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 457.1	02/07/06	Nuclear Counterterrorism	A019 04/26/07
DOE M 457.1-1	08/10/06	Control of Improvised Nuclear Device Information	A019 04/26/07
DOE O 460.1B	04/04/03	Packaging and Transportation Safety	
DOE O 460.2A	12/22/04	Departmental Materials Transportation & Packaging Management	A019 04/26/07
DOE M 460.2-1	09/23/02	Radioactive Material Transportation Practices	
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	A015 01/25/07
DOE P 470.1	05/08/01	Integrated Safeguards and Security Management (ISSM) Policy	
DOE O 470.2B	10/31/02	Independent Oversight and Performance Assurance Program	
DOE O 470.3A	11/29/05	Design basis Threat Policy (U)	A015 01/25/07
DOE M 470.4-1, Chg. 1	03/07/06	Safeguards and Security Program Planning and Management	A015 01/25/07
DOE M 470.4-2, Chg. 1	03/07/06	Physical Protection	A015 01/25/07
DOE M 470.4-3, Chg. 1	03/07/06	Protective Force	A015 01/25/07
DOE M 470.4-4, Chg. 1	06/29/07	Information Security	M033 01/09/08
DOE M 470.4-5	08/26/05	Personnel Security	A015 01/25/07
DOE M 470.4-6, Chg. 1	08/14/06	Nuclear Material Control and Accountability	A015 01/25/07
DOE M 470.4-7	08/26/05	Safeguards and Security Program References	A015 01/25/07
DOE O 471.1A	06/30/00	Identification and Protection of Unclassified Controlled Nuclear Information	
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	04/09/03	Identifying and Protecting Official Use Only Information	
DOE M 471.3-1	04/09/03	Manual for Identifying and Protecting OUO Information	
DOE O 475.1	12/10/04	Counterintelligence Program	A015 01/25/07
DOE M 475.1-1B	08/28/07	Identifying Classified Information	M033 01/09/08
DOE O 475.2	08/28/07	Identifying Classified Information	M046 06/11/08
DOE M 481.1-1A, Chg. 1	09/28/01	Reimbursable Work for Non-Federal Sponsors Process Manual	
DOE O 482.1	01/12/01	DOE Facilities Technology Partnering Programs	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE M 483.1-1	01/12/01	DOE Cooperative Research & Development Agreements Manual	
DOE O 483.1	01/12/01	DOE Cooperative Research & Development Agreements	
DOE O 484.1	08/17/06	Reimbursable Work for Department of Homeland Security	A018 03/29/07
DOE O 522.1	11/03/04	Pricing of Departmental Materials and Services	
DOE O 534.1B	01/06/03	Accounting	
DOE O 544.1	10/12/04	Priorities and Allocation Program	
DOE O 551.1B	08/19/03	Official Foreign Travel	
DOE G 573.1-1	10/03/05	Mail Services Users Guide	A019 04/26/07
DOE O 580.1	12/07/05	Department of Energy Personal Property Management Program	A027 11/02/07
DOE O 1220.1A, Chg. 1	06/28/92	Congressional & Intergovernmental Affairs	
DOE O 1230.2	04/08/92	American Indian Tribal Government Policy	
DOE O 1450.4	11/12/92	Consensual Listening-In to or Recording Telephone/Radio Conversations	
DOE O 5400.5, Chg. 2	01/07/93	Radiation Protection of the Public & the Environment	
DOE O 5480.19, Chg. 2	10/23/01	Conduct of Operations Requirements for DOE Facilities	
DOE O 5480.20A, Chg. 1	07/12/01	Personnel Selection, Qualification, and Training Requirements for DOE Nuclear Facilities	
DOE O 5480.30, Chg. 1	03/14/01	Nuclear Reactor Safety Design Criteria	
DOE O 5610.2, Chg. 1	08/01/80	Control of Weapon Data	
DOE O 5639.8A	07/23/93	Security of Foreign Intelligence Information and Sensitive Compartmented Information Facilities	
DOE O 5660.1B	05/26/94	Management of Nuclear Materials	
DOE O 5670.1A	01/15/92	Management and Control of Foreign Intelligence	
SEN-22-90	05/08/90	DOE Policy on Signatures of RCRA Permit Applications	
SEN-35-91	09/09/91	Nuclear Safety Policy	
DOE-STD-1027-92, Chg. 1	9/97	Hazard Categorization and Accident Analysis Techniques for Compliance 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	March 2006	Preparation Guide for U.S. DOE 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	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE-STD-3015-2001	02/01	Nuclear Explosive Safety Study Process	
QC-1, Revision 10	02/10/04	DOE/NNSA Weapon Quality Policy (QC-1) Note: This document is not accessible to the public.	
56XB, Revision 2	02/27/04	Development and Production Manual Note: This document is not accessible to the public.	
NAP-3	07/18/02	NNSA Environment, Safety and Health Management Process Guidance	
NAP-9A	01/31/05	SECON Implementation	
NAP-14.1B	09/27/06	NNSA Cyber Security Program	A015 01/25/07
NAP-14.2B	09/27/06	Baseline Cyber Security Requirements	A015 01/25/07
NAP-14.3A	04/05/06	NNSA Protection Profile and Security Target Requirements	A015 01/25/07
NAP-14.4A	04/05/06	Open Public Unrestricted Access Information Group Protection Profiles	A015 01/25/07
NAP-14.5A	04/05/06	Unclassified Protected Information Group Protection Profile	A015 01/25/07
NAP-14.6A	04/05/06	Unclassified Mandatory Protection Information Group Protection Profile	A015 01/25/07
NAP-14.7A	04/05/06	Confidential/Secret Non-Nuclear Weapons Data Information Group Protection Profile	A015 01/25/07
NAP-14.8A	04/05/06	Secret Restricted Non-Nuclear Weapons Data Information Group Protection Profile	A015 01/25/07
NAP-14.9A	04/05/06	Confidential Restricted Data, Sigmas 1 Through 13 Information Group Protection Profile	A015 01/25/07
NAP-14.10A	04/05/06	Secret Restricted Data, Sigmas 1 Through 13 and 15 Information Group Protection Profile	A015 01/25/07
NAP-14.11A	04/05/06	Secret Restricted Data, Sigma 14 Information Group Protection Profile	A015 01/25/07
NAP-14.12	04/05/06	NNSA Contingency Planning and Operations	A015 01/25/07
NAP-14.13	04/05/06	Transmission of Restricted and Formerly Restricted Data Over the Secret Internet Protocol Router Network (SIPRNet)	A015 01/25/07
NAP-14.14	08/09/06	Top Secret Information Group Protection Profile	A015 01/25/07
NAP-14.15	08/09/06	Top Secret Restricted Data Information Group Protection Profile	A015 01/25/07
NAP-14.16	08/09/06	Clearing, Sanitizing, and Destroying Information System Storage Media, Memory Devices, and Other Related Hardware	A015 01/25/07
BOP-003.0404	07/28/04	Requests to Defense Contracting Audit Agency (DCAA) for Audit of M&O Contractor Subcontracts	
BOP 003.08	05/30/08	Management and Operating Contractor Business Meals and Light Refreshment	M046 06/11/08