229 S. ISSUED BY						1 2
	NT/MODIFICATION NO.	3. EFFECTIVE DATE	4. F	REQUISITION/PURCHASE REQ. NO.	5. PROJ	ECT NO. (If applicable)
. ISSUED BY		See Block 16C				
	CODE	05003	7.	ADMINISTERED BY (If other than item 6)	CODE	05003
os Alar			U. Lo	NSA/Los Alamos Site Offi S. Department of Energy os Alamos Site Office 747 West Jemez Road os Alamos NM 87544		
	ADDRESS OF CONTRACTOR (No., street	, county, State and ZIP Code)	(4)	9A. AMENDMENT OF SOLICITATION NO.		A COMP.
OS ALAM	MOS NATIONAL SECURITY TEVE K. SHOOK K 1663, MS P222 MOS NM 875450001		×	9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDER DE-AC52-06NA25396	R NO.	
				10B. DATED (SEE ITEM 13)		
CODE 17	5252894	FACILITY CODE		12/21/2005		
		11. THIS ITEM ONLY APPLIES TO	AME	NDMENTS OF SOLICITATIONS		
CHECK ONE	ORDER NO. IN ITEM 10A.			ANGES SET FORTH IN ITEM 14 ARE MADE I E ADMINISTRATIVE CHANGES (such as chang RITY OF FAR 43.103(b).		
	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT TO	AUTH	HORITY OF:		
Х	P.L. 95-91 and Other	Applicable Laws		•		
	D. OTHER (Specify type of modification	and authority)				
				tum1_ copies to the iss	da = -#	
E. IMPORTAN	TION OF AMENDMENT/MODIFICATION pose of this modifica	tion is to modify a	includ	ing solicitation/contract subject matter where fereplace Prime Contract S	asible.)	т
The purp		le Directives.				0,
he purp ppendix						U,
The purp Appendix See Page	e 2. of Performance: 12/21	/2005 to 09/30/2018		s heretofore changed, remains unchanged and		
Except as pro	e 2. of Performance: 12/21 ovided herein, all terms and conditions of the state o	/2005 to 09/30/2018	10A, as	s heretofore changed, remains unchanged and 16A. NAME AND TITLE OF CONTRACTING O	in full force al	nd effect.
Except as pro	e 2. of Performance: 12/21	/2005 to 09/30/2018	10A, a:		in full force al	nd effect.

STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243

NSN 7540-01-152-8070
Previous edition unusable

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

The following DOE and NNSA Directives are added:

NUMBER	DATE	TITLE
DOE O 205.1B, Change 1	12/07/12	Department of Energy Cyber Security Program
DOE O 231.1B, Change 1	11/28/12	Environment, Safety, and Health Reporting
DOE STD 3013-2012	March 2012	Stabilization, Packaging, and Storage of Plutonium Bearing
		Materials
NAP 14.1C, Chapter VII	05/02/08	NNSA Baseline Cyber Security Program, Chapter VII Incident
		Management
NAP 14.1D	12/14/12	Baseline Cyber Security

The following DOE Directives are deleted in their entirety:

NUMBER	DATE	TITLE
DOE O 205.1A	12/04/06	Department of Energy Cyber Security Management
DOE M 205.1-4	03/08/07	National Security System Manual
DOE M 205.1-8	01/08/09	Cyber Security Incident Management Manual
DOE O 231.1B	06/27/11	Environment, Safety, and Health Reporting
DOE STD 3013-2004	April 2004	Stabilization, Packaging, and Storage of Plutonium Bearing Materials

Los Alamos National Security, LLC Contract No. DE-AC52-06NA25396 Modification No. 229 Attachment 1 Page 1 of 7

PART III - SECTION J

APPENDIX G

May 13, 2013

[Modified by Modification No. A009, A015, A018, A019, A021, A027, M033, M041, M042, M046, M056, M062, M069, M078, M103, M133, 150, 157, 165, 177, 183, 192, 196, 201, 229]

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 142.3A, Attachment 1 CRD	10/14/10	Unclassified Foreign Visits and Assignments Program	192 05/21/12
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

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 200.1A, Attachment 1 CRD	12/23/08	Information Technology Management NOTE : Implementation as cited by PCM-11-366 dated 12/21/11	183 02/06/12
DOE M 200.1-1, Chapter 9	02/15/00	Public Key Cryptography and Key Management	
DOE O 205.1B Chg 1, Attachment 1 CRD	12/07/12	Department of Energy Cyber Security Program NOTE: Implementation as cited by PCM-13-092 dated 4/12/13	229 05/13/13
DOE M 205.1-3	04/17/06	Telecommunications Security Manual	A019 04/26/07
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 210.2A, Attachment 2 CRD	04/08/11	DOE Corporate Operating Experience Program NOTE: Implementation as cited by PCM-11-312 dated 11/17/11 and LASO SO:26CK-397917 dated 11/21/11	183 02/06/12
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 O 225.1B, Attachment 1 CRD	03/04/11	Accident Investigations	165 05/27/11
DOE O 226.1B, Attachment 1 CRD	04/25/11	Implementation of Department of Energy Oversight Policy	177 10/03/11
DOE O 227.1, Attachment 1, CRD	08/30/11	Independent Oversight Program	183 02/06/12
DOE O 231.1B Chg 1, Attachment 1 CRD	11/28/12	Environment, Safety, and Health Reporting	229 05/13/13
DOE O 232.2, Attachment 1, CRD	08/30/11	Occurrence Reporting and Processing of Operations Information	183 02/06/12
DOE O 241.1B, Attachment 1 CRD	12/13/10	Scientific and Technical Information Management	177 10/03/11
DOE O 243.1A, Attachment 1 CRD	11/07/11	Records Management Program NOTE: Implementation as cited by PCM-12-042 dated 2/29/12	192 05/21/12
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	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 341.1A,	10/18/07	Federal Employee Health Services	M078
Attachment 1 CRD			07/01/09
DOE O 350.1 Chg 1,	05/08/98	Contractor Human Resource Management	A018
Attachment 1 CRD		Programs	03/29/07
DOE O 350.2B,	06/06/11	Use of Management and Operating or Other	177
Attachment 1 CRD		Facility Management Contractor Employees	10/03/11
		for Services to DOE in the Washington,	
		D.C., Area	
DOE O 410.2,	08/17/09	Management of Nuclear Materials	M133
Attachment 1 CRD	0.4/0.4/0.5	N/ 1 A / 1 · / 2 /	06/11/10
DOE O 412.1A	04/21/05	Work Authorization System	A019
DOE 0 440 4D	40/00/00	Into an al Constral December	04/26/07
DOE O 413.1B,	10/28/08	Internal Control Program	M103 10/06/09
Attachment 1 CRD DOE O 413.2B,	04/19/06	Laboratory Directed Decearch and	A019
Attachment 2 CRD	04/19/06	Laboratory Directed Research and Development	04/26/07
DOE O 413.3B,	11/29/10	Program and Project Management for the	157
Attachment 1 CRD	11/29/10	Acquisition of Capital Assets	01/21/11
DOE O 414.1D,	04/25/11	Quality Assurance	177
Attachment 1 CRD	04/20/11	NOTE: Implementation as cited by	10/03/11
, masimism i dita		PCM-11-230 dated 9/30/11	10/00/11
DOE O 420.1B Chg 1,	04/19/10	Facility Safety	150
Attachment 2 CRD		, sa sa	10/05/10
DOE O 420.2C,	07/21/11	Safety of Accelerator Facilities	177
Attachment 1 CRD			10/03/11
DOE O 422.1,	06/29/10	Conduct of Operations	157
Attachment 1 CRD			01/21/11
DOE G 424.1-1B	04/08/10	Implementation Guide For Use In	150
		Addressing Unreviewed Safety Question	10/05/10
205 0 405 42	0.1/1.0/1.0	Requirements	450
DOE O 425.1D,	04/16/10	Verification of Readiness to Start Up or	150
Attachment 1 CRD	0.4/0.4/4.0	Restart Nuclear Facilities	10/05/10
DOE O 426.2, Attachment 1 CRD	04/21/10	Personnel Selection, Training, Qualification, and Certification Requirements for DOE	150 10/05/10
Attacriment 1 CKD		Nuclear Facilities	10/03/10
DOE O 430.1B Chg.1,	02/08/08	Real Property Asset Management	M046
Attachment 2 CRD	32,00,00		06/11/08
DOE O 433.1B,	04/21/10	Maintenance Management Program for DOE	150
Attachment 1 CRD		Nuclear Facilities	10/05/10
DOE O 435.1 Chg 1,	08/28/01	Radioactive Waste Management	
Attachment 1 CRD			
DOE M 435.1-1 Chg 1	06/19/01	Radioactive Waste Management Manual	
DOE O 436.1,	05/02/11	Departmental Sustainability	183
Attachment 1 CRD			02/06/12
DOE O 440.2B Chg 1,	11/19/06	Aviation Management and Safety	A019
Attachment 2 CRD			04/26/07
DOE M 441.1-1,	03/07/08	Nuclear Material Packaging Manual	M056
Attachment 1 CRD	00/00/01	Description of Co.	10/08/08
DOE O 442.1A,	06/06/01	Department Of Energy Employee Concerns	
Attachment 1 CRD		Program	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE O 442.2,	07/29/11	Differing Professional Opinions for Technical	183
Attachment 1 CRD		Issues Involving Environment, Safety, and Health	02/06/12
DOE O 443.1B,	03/17/11	Protection of Human Research Subjects	177
Attachment 1 CRD			10/03/11
DOE O 452.1D,	04/14/09	Nuclear Explosive and Weapon Surety	M078
Attachment 1 CRD		Program	07/01/09
DOE O 452.2D,	04/14/09	Nuclear Explosive Safety	M078
Attachment 1 CRD			07/01/09
DOE M 452.2-1A,	04/14/09	Nuclear Explosive Safety Manual	M078
Attachment 1 CRD			07/01/09
DOE M 452.2-2,	04/14/09	Nuclear Explosive Safety Evaluation	M078
Attachment 1 CRD		Processes	07/01/09
DOE O 452.3,	06/08/05	Management of the Department of Energy	A021
Attachment 2 CRD		Nuclear Weapons Complex	06/11/07
DOE O 452.4A,	12/17/01	Security and Control of Nuclear Explosives	
Attachment 1 CRD		and Nuclear Weapons	
DOE O 452.6A,	04/14/09	Nuclear Weapon Surety Interface with the	M078
Attachment 1 CRD		Department of Defense	07/01/09
DOE O 452.7,	05/14/10	Protection of Use Control Vulnerabilities and	150
Attachment 1 CRD		Designs	10/05/10
DOE O 452.8,	07/21/11	Control of Nuclear Weapon Data	183
Attachment 1 CRD	0=10+14+	T. 0 (11 11 (11 1 1 1 1 1 1 1 1 1 1 1 1 1	02/06/12
DOE O 456.1,	05/31/11	The Safe Handling of Unbound Engineered	177
Attachment 1 CRD	00/07/00	Nanoparticles	10/03/11
DOE O 457.1,	02/07/06	Nuclear Counterterrorism	A019
Attachment 2 CRD	00/40/00	Control of Improvided Nivelegy Device	04/26/07
DOE M 457.1-1,	08/10/06	Control of Improvised Nuclear Device Information	A019
Attachment 2 CRD DOE O 458.1 Chg 2,	06/06/11	Radiation Protection of the Public and the	04/26/07 177
Attachment 1 CRD	06/06/11	Environment	10/03/11
Attachment 1 CKD		NOTE: Implementation as cited by LASO	10/03/11
		BA:30RP-407384 dated 1/5/12 and	
		PCM-12-028 dated 2/9/12	
DOE O 460.1C,	05/14/10	Packaging and Transportation Safety	150
Attachment 1 CRD	00, 1, 1, 10	. assaging and manoportation during	10/5/10
DOE O 460.2A,	12/22/04	Departmental Materials Transportation and	A019
Attachment 2 CRD		Packaging Management	04/26/07
DOE M 460.2-1A,	06/04/08	Radioactive Material Transportation	M056
Attachment 1 CRD		Practices Manual For Use With DOE O	10/08/08
		460.2A	
DOE O 461.1B,	12/20/10	Packaging and Transportation for Offsite	165
Attachment 1 CRD		Shipment of Materials of National Security	05/27/11
		Interest	
DOE O 461.2,	10/31/10	Onsite Packaging and Transfer of Materials	165
Attachment 1 CRD		of National Security Interest	05/27/11
DOE O 462.1,	11/10/08	Import and Export of Category 1 and 2	M069
Attachment 1 CRD		Radioactive Sources and Aggregated	04/21/09
		Quantities	
DOE O 470.3B	08/12/08	Graded Security Protection (GSP) Policy	M062
			01/15/09

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
DOE M 470.4-1 Chg 1,	03/07/06	Safeguards and Security Program Planning	A015
Attachment 2 CRD		and Management	01/25/07
DOE M 470.4-3A,	11/05/08	Contractor Protective Force	M078
Attachment 1 CRD			07/01/09
DOE M 470.4-6 Chg 1,	08/14/06	Nuclear Material Control and Accountability	A015
Attachment 2 CRD			01/25/07
DOE O 471.1B,	03/01/10	Identification and Protection of Unclassified	177
Attachment 1 CRD		Controlled Nuclear Information	10/03/11
DOE O 471.3,	04/09/03	Identifying and Protecting Official Use Only	
Attachment 1 CRD		Information	
DOE M 471.3-1,	04/09/03	Manual for Identifying and Protecting Official	
Attachment 1 CRD		Use Only Information	
DOE O 471.5,	03/29/11	Special Access Programs	177
Attachment 1 CRD			10/03/11
DOE O 472.2,	07/21/11	Personnel Security	177
Attachment 2 CRD			10/03/11
DOE O 475.1,	12/10/04	Counterintelligence Program	A015
Attachment 2 CRD			01/25/07
DOE O 475.2A,	02/01/11	Identifying Classified Information	177
Attachment 1 CRD			10/03/11
DOE M 481.1-1A Chg 1	09/28/01	Reimbursable Work for Non-Federal Sponsors Process Manual	
DOE O 483.1,	01/12/01	DOE Cooperative Research and	
Attachment 1 CRD		Development Agreements	
DOE M 483.1-1	01/12/01	DOE Cooperative Research and Development Agreements Manual	
DOE O 484.1,	08/17/06	Reimbursable Work for Department of	A018
Attachment 2 CRD	00/11/00	Homeland Security	03/29/07
DOE O 522.1,	11/03/04	Pricing of Departmental Materials and	00,20,01
Attachment 2 CRD	, 5 5, 5 .	Services	
DOE O 534.1B,	01/06/03	Accounting	
Attachment 1 CRD		ŭ	
DOE O 551.1D,	04/02/12	Official Foreign Travel	192
Attachment 1 CRD			05/21/12
DOE O 580.1 Chg 1,	05/08/08	Department of Energy Personal Property	M056
Attachment 2 CRD		Management Program	10/08/08
		NOTE: Implementation as cited by	
		PCM-13-043 dated 3/04/13	
DOE O 5400.5 Chg 2	01/07/93	Radiation Protection of the Public and the	
		Environment	
		NOTE: Removal contingent upon full imple-	
		mentation of DOE O 458.1 Chg 2 as cited by	
		LASO BA:30RP-407384 dated 1/5/12 and	
DOE 0 5400 00 0b = 4	00/44/04	PCM-12-028 dated 2/9/12	
DOE O 5480.30 Chg 1	03/14/01	Nuclear Reactor Safety Design Criteria	
DOE O 5639.8A	07/23/93	Security of Foreign Intelligence Information	
		and Sensitive Compartmented Information	
DOE 0 5070 44	04/45/00	Facilities Management and Central of Foreign	
DOE O 5670.1A	01/15/92	Management and Control of Foreign	
		Intelligence	

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
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, Change 1	September 1997	Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23 Nuclear Safety Analysis Reports	
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-1212-2012	June 2012	Explosives Safety	201 09/3/12
DOE-STD-3009-94, Change Notice 3	March 2006	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-3013-2012	March 2012	Stabilization, Packaging, and Storage of Plutonium-Bearing Materials NOTE: Implementation as cited by PCM-13-071 dated 3/25/13	229 05/13/13
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-3020-2005	December 2005	Specification for HEPA Filters Used by DOE Contractors	183 02/06/12
DOE-STD-5506-2007	April 2007	Preparation of Safety Basis Documents for Transuranic (TRU) Waste Facilities	M078 07/01/09
QC-1, Revision 10	02/10/04	DOE/NNSA Weapon Quality Policy (QC-1) NOTE: Not applicable to Fissile and Type B Containers per LASO Letter QA-11-136-ABL dated 4/12/11	165 05/27/11
56XB, Revision 2	02/27/04	Development and Production (D&P) Manual	
NNSA DP G PPBE-001	10/21/11	Defense Programs (DP) Work Breakdown Structure (WBS)	192 05/21/12
NNSA NA-1 SD G 1027	11/28/11	Guidance of Using Release Fraction and Modern Dosimetric Information NOTE: Implementation as cited by PCM-12-083 dated 4/25/12	192 05/21/12
NA-1 SD 226.1A	10/17/08	NNSA Line Oversight and Contractor Assurance System Supplemental Directive	M069 04/21/09
NA SD O 350.2	11/16/11	Use of Management and Operating Contractor Employees for Services to NNSA in the Washington DC Area	183 02/06/12

DIRECTIVE NUMBER	DATE	DOE DIRECTIVE TITLE	Mod # Date
NA SD M 452.3-1	12/10/09	Defense Programs Business Requirements and Processes Manual NOTE: Include RMI Chapters R002, R007, R008, R010 per LASO approval 9/22/11 (Mod 177), RMI Chapter R016 per LASO approval 6/12/12, and RMI Chapter R018 per LASO approval 7/23/12 (Mod 196)	M133 06/11/10
NA-10 WQAP Manual	03/30/09	NNSA Office of Defense Programs (NA-10) Weapon Quality Assurance Procedures Manual	M078 07/01/09
NAP 14.1C, Chapter VII	05/02/08	NNSA Baseline Cyber Security Program, Chapter VII Incident Management	229 05/13/13
NAP 14.1D	12/14/12	Baseline Cyber Security NOTE: Implementation as cited by PCM-13-092 dated 4/12/13	229 05/13/13
NAP 14.3-B	05/02/08	Transmission of Restricted Data Over Secret Internet Protocol Router Network (SIPRNet)	M062 01/15/09
NAP 70.2	07/02/10	Physical Protection	157 01/21/11
NAP 70.4	07/02/10	Information Security	157 01/21/11
BOP-003.0404	07/28/04	Requests to Defense Contracting Audit Agency (DCAA) for Audit of M&O Contractor Subcontracts	
BOP-003.08, CRD	05/30/08	Management and Operating Contractor Business Meals and Light Refreshment	M046 06/11/08
NFPA 70E	2009 Edition	Standard for Electrical Safety in the Work Place	150 10/05/10