2 AMERICAN PROPRIETION NO. 1 SPECIAL DIE 100 A RECONSTRUMPUNCHARE REQ NO PROJECT NO. (If appeals and the second of	AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE C	PAGES
MISSA PRODUCTION OF CORE 0,5047 NA-00-NPO NA-	2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJECT N	O. (If applicable)
NAMES Production OFC NA-00-NPO NA-00		See Block 16C			<u></u>	
NA-00-NRO 301 Bear Creek Road P.O. Box 2050 8 NAME AND ADDRESS OF CONTRACTOR ps. serie, court, some and 2P come CONSOLIDATED NUCLEAR SECURITY LLC ARTH: MICHAEL VERREQUEEN 301 BEAR CREEK RD ORK RIDGE TN 37831 X DE-NADOLISES IN THIS TIM ONLY APPLIES TO AMERICAN TO (10 July 2013) TO AMERICAN CONTRACTOR SER NO. THE SOME PARTICIPATION OF CONTRACTOR SER NO. THE PARTICIPATION OF SOLUTION OF CONTRACTOR SER NO. THE PARTICIPATION OF CONTRACTOR SER NO. THE SERVICE OF CONTRACTOR SER NO. THE SERVICE OF CONTRACTOR SERVICE TO SERVICE AND	6. ISSUED BY CODE	05047	7. ADN	AINISTERED BY (If other than Item 6)	CODE	
CONSOLIDATED NUCLEAR SECURITY LLC ACT.: MICHAEL VERREULEN 30. BARD CREEK NO OAK RIDGE TN 37831 X DE-PAD-001942 X DE-PAD-	NA-00-NPO 301 Bear Creek Road P.O. Box 2050					
CONSOLIDATED NUCLEAR SECURITY LLC Attn: MICRAEL VERKETOLEN 301 BEAR CREEK NO OAK RIDGE TN 37831 X MICRAEL VERKETOLEN 302 BEAR CREEK NO OAK RIDGE TN 37831 X MICRAEL VERKETOLEN 303 BEAR CREEK NO OAK RIDGE TN 37831 X MICRAEL VERKETOLEN 304 BEAR CREEK NO OAK RIDGE TN 37831 X MICRAEL VERKETOLEN 305 BEAR CREEK NO OAK RIDGE TN 37831 X MICRAEL VERKETOLEN 306 BATED (SEE TEM 17) 1/108/2013 X MICRAEL VERKETOLEN 1/108/2013 X MICRA	8. NAME AND ADDRESS OF CONTRACTOR (No., atreet,	county, State and ZIP Code)	(x) 9A	AMENDMENT OF SOLICITATION NO.	····	
ALCHIE MICHAEL VERNOULEN 301 BEAR CREEK RD ORK RIDGE TN 37831 X DO. NODEFCATION OF CONTRACTORDER NO. 106—78.0011942 107.08.70213 X DO. NODEFCATION OF CONTRACTORDER NO. 107.08.70213 X DO. NODEFCATION OF CONTRACTORDER NO. 108.08.08.08.08.08.08.08.08.08.08.08.08.0	CONCOLIDATED MICLERS SECURITY		٣			
301 BEAR CREEK RD ORK RIDGE TN 37831 X DE-MRO001942 100 MODE/CATION OF CONTRACTORDER NO. 101 BEAR CREEK RD 110 BOARD (SEE ITEM 13) 101 BOARD (SEE ITEM 13) 101 BOARD (SEE ITEM 13) 101 (1897/2013) 111 BEAR CREEK RD 112 BEAR CREEK RD 113 BEAR CREEK RD 114 BEAR CREEK RD 115 BEAR CREEK RD 115 BEAR CREEK RD 115 BEAR CREEK RD 116 BOARD (SEE ITEM 13) 107 BOARD (SEE ITEM 14) 108 BOARD (SEE ITEM 14) 109 BOARD		I LLC	9B	DATED (SEE ITEM 11)		
CODE 078390708 FACELTY CODE 100 ONTED (SEE ITEM 15) 10 (08/2013 100 ONTED (SEE						
CODE C78390708 FACELTY CODE			110	MODIFICATION OF CONTRACT/ORDER NO	<u> </u>	
The above numbered solicition is annealed as set from in min 14. The horse are dides specified to most part of 10 ms where the contract of the several part of the part its of the several part of the part of the several part of the sever			× bi	E-NA0001942	.	
The above numbered solicition is annealed as set from in min 14. The horse are dides specified to most part of 10 ms where the contract of the several part of the part its of the several part of the part of the several part of the sever						<u> </u>
The above numbered solicitation is animated as set forth in liem 14. The hour and disa sponded for receipt of Others Chins must acknowledge receipt of this amendment prior to the hour and day specified in the solicitation or as emmended. By one of the following methods. (a) By compating fittens and 15, and returning copies of the amendment, (b) by acknowledger property of the amendment on set or the hour and day specified in the solicitation or as emmended. The property of the amendment on set or the specified from the set of the specified in the solicitation or ad emmended and the property of the specified from		·	101	B. DATED (SEE ITEM 13)		
□ The Book numbered solicitation is amounded as set from in time 14. The book mode discovered on the control of the Color and Section of the	CODE 078390708		l I			
Other must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the Sundhistory and should be interested or copies of the semenderic and each cape of the sundhistory developed in the semenderic one and cape of the semenderic or and part which relates a reference to the sementment mustors. FALURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIPT OF OFFER 7 by virtua of this amendment was desired to change an other sixteety submitted, each change may be made by biological or relate, provided spirit integer or inter makes integers to the great part of the sementment and amendment and other sixteety submitted. Each change may be made by biological or relate, provided spirit integers to the great part of the sementment and the sementment and sementmentmentmentmentmentmentmentmentmen						
13. THIS TIEM CHLY APPLIES TO MODIFICATION OF CONTRACTIONADERS. IT MODIFIES THE CONTRACTIONADER NO. AS DESCRIBED IN TIEM 14. CHECK CNE A THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN TIEM 14 ARE MADE IN THE CONTRACT B. THE ABOVE NUMBERED CONTRACTORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (auch as changes in paying office, appropriation date, see.) SET FORTH IN TIEM 14. PURSUANT TO THE AUTHORITY OF FAR 43 (03(b)). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF. D. OTHER (Specify type of modification and authority) X. MULUAL agreement of the parties E. NEPORTAMT: Contractor is not _ is necessary in the accument and return	THE PLACE DESIGNATED FOR THE RECEIPT OF C virtue of this amendment you desire to change an offer reference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (# requ	OFFERS PRIOR TO THE HOUR AND DA r already submitted , such change may b is received prior to the opening hour and	ATE SPE Se mude	CIFIED MAY RESULT IN REJECTION OF YOU by telegram or letter, provided each telegram or	UR OFFER IF b	
A THIS CHANGE ORDER IS ISSUED PURSUANT TO (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT 8. THE ABOVE MUMBERED CONTRACTORDER IS MODIFIED TO REFLECT THE ADMINISTRATINE CHANGES (such as changes in paying office, appropriation dale, set) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43 1030). C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF D. OTHER (Specify type of modification and authority) X. Mutual agreement of the parties E.IMPORTANT: Contractor [Is not [Is required to sign this document and return 1 copies to the issuing office. 14. DESCRIPTION OF AMENDMENTANODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where Neebbb) The purpose of this modification is to replace Section J Appendix N with the attached. Payment: OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Office Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge Tinancial Service Center P.O. Box 6017 Oak Ridge To 37831 Except as provided herein, all farms and conditions of the document referenced in litem 9 A or 10A, as heretifotes changed, remains unchanged and in full force and effect. 15a. NAME AND TITLE OF GONTRACTOR OFFICER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15b. CONTRACTOR OFFICER (Type or print) 15c. DATE SIGNED 15c. DATE SIGNED 15c. DATE SIGNED 15d. CONTRACTOR OFFICER (Type or print) 15d. DATE SIGNED 15d. CONTRACTOR OFFICER (Type or print) 15d. DATE SIGNED 15d. DATE SIGNED 15d. DATE SIGNED 15d. CONTRACTOR OFFICER (Type or print) 15d. DATE SIGNED		ODIFICATION OF CONTRACTS/ORDER		DDIFIES THE CONTRACT/ORDER NO. AS DE	SCRIBED IN ITE	
B. THE ABOVE NUMBERED CONTRACTFORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURBLANT 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. Mutual agreement of the parties E. IMPORTANT: Contractor						
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: D. OTHER (Specify type of modification and authority) X. Mutual agreement of the parties E. IMPORTANT: Contractor Grant Teach Grant Grant Grant Teach Te	A. THIS CHANGE ORDER IS ISSUED FORDER NO. IN ITEM 10A.	PURBUANT TO: (Specify authority) THE	CHANC	GES SET FORTH IN ITEM 14 ARE MADE IN TI	HE CONTRACT	
D. OTHER (Specify type of modification and authority) X. Mutual agreement of the parties E. IMPORTANT: Contractoris rot E is required to sign this document and return 1_ copies to the issuing office. 14. DESCRIPTION OF AMENOMENTANODIFICATION (Organized by UCF section headings, including solicution/contract subject metter where Residue) The purpose of this modification is to replace Section J Appendix N with the attached. Payment: OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Office Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, at terms and conditions of the document referenced in liem 9 A or 10A, as hereitofore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B CONTRACTIONOFFEROR 15C DATE SIGNED 15C D	B. THE ABOVE NUMBERED CONTRAC appropriation data, etc.) SET FORTH	CTYORDER IS MODIFIED TO REFLECT IN ITEM 14, PURSUANT TO THE AUT	THE AD HORITY	MINISTRATIVE CHANGES (such as changes in OF FAR 43, 103(b).	in paying office,	
Mutual agreement of the parties E.IMPORTANT: Contractor	C. THIS SUPPLEMENTAL AGREEMEN	T IS ENTERED INTO PURSUANT TO A	UTHOR	TY OF:		
ELEMPORTANT: Contractor	D. OTHER (Specify type of modification	and authority)				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings. Including solicitation/contract subject metter where Neesbie) The purpose of this modification is to replace Section J Appendix N with the attached. Payment: OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Office Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, at terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT! AND CHIEF EXECUTIVE OFFICER 15B LINITED STATES OF AMERICAN 16C DATE SIGNED (Signature of person subnotice) to sign) 16C DATE SIGNED Previous addition unused to SIANDARD FORMS 30 (REV. 10-83) Previous addition unused to	X Mutual agreement of	the parties				
Payment: OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Office Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as herelofter changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15SC CONTRACTION/OFFICER (Type or print) 15C DATE SIGNED 18SC CONTRACTION/OFFICER (Signed) 18C DATE SIGNED 18C LINITED STATES OF AMERICAL (REV. 10-83) Previous edition unusuable Prescribed by GSA Prescribed by GSA Prescribed by GSA Prescribed by GSA	E. IMPORTANT: Contractor 🗀 is not.	is required to sign this document an	d refum	1 copies to the issuing	affice.	
OR for Oak Ridge/OSTI U.S. Department of Energy Oak Ridge Office Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, at terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B CONTRACTOR/OFFEROR 15C DATE SIGNED 15C					-	ed.
Oak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as herelatore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B CONTRACTOR/OFFEROR 15C DATE SIGNED 16B JINITED STATES OF AMERICAN 16B JINITED STATES OF AMERICAN 16C DATE SIGNED	-					
Cak Ridge Financial Service Center P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A as hereinforce changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15C DATE SIGNED 15C DATE SIGNED 16B UNITED STATES OF AMERICAN 16C DATE SIGNED 16C DATE SIGNED 16C DATE SIGNED 17C DATE SIGNED 18C DATE SIGNED	U.S. Department of Energy					
P.O. Box 6017 Oak Ridge TN 37831 Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B CONTRACTOR/OFFEROR 15C DATE SIGNED 15C DATE SIGNED 16B UNITED STATES OF AMERIQA 16C DATE SIGNED	-					
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B CONTRACTOR/OFFEROR 15C DATE SIGNED 15C DATE SIGNED 16B UNITED STATES OF AMERICAN 16C DATE SIGNED		Center				
Except as provided herein, all terms and conditions of the document referenced in Item 9 A or 10A, as heretofore changed, remains unchanged and in full force and effect. 15A, NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B, CONTRACTOR/OFFICER 15C, DATE SIGNED (Signature of person suthorized to sign) NSN 75NG-01-152-8070 Previous addition unusable						
15A. NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15C. DATE	Oak Ridge TN 37831					
15A. NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15C. DATE						
15A. NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15C. DATE						
15A. NAME AND TITLE OF SIGNER (Type or print) MORGAN N. SMITH PRESIDENT AND CHIEF EXECUTIVE OFFICER 15B. CONTRACTOR/OFFEROR 15C. DATE SIGNED 15C. DATE						
PRESIDENT AND CHIEF EXECUTIVE OFFICER 158 CONTRACTOR/OFFEROR 15C DATE SIGNED 16C DATE SIGNED	15A NAME AND TITLE OF SIGNER (Type or print)	na document referenced in Item 9 A or 10				
15C. DATE SIGNED 16G. LINITED STATES OF AMERIQN 16C. DATE SIGNED 16C. DATE SIGNED		CUTIVE OFFICER		-		
(Signature of person authorized to sign) NSN 75NO-01-152-8070 Previous addition unusable Prescribed by GSA			168.	LINITED STATES OF AMERICA		
NSN 75N0-01-152-8070 V STANDARD FORM 30 (REV. 10-83) Previous addition unusable Prescribed by GSA	(Signature of person authorized to sion)	8-2-17	-			8-2-17
	NSN 75N0-01-152-8070	· · · · · · · · · · · · · · · · · · ·		. Р	rescribed by GS	A .

SECTION J

<u>APPENDIX N</u>

JULY 2017

LIST OF APPLICABLE DIRECTIVES

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.

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
AL 56XB	Development and Production Manual		
ASME NQA-1 2008, 2009 Addenda, 1b 2011	Quality Assurance Requirements for Nuclear Facility Application		
Baseline Security Procedure for NNSA SAP (Applies to Y-12 Only)	Baseline Security Procedure for NNSA SAP		
DOE-DTRA-TP-50-2	Procedures for the Use and Control of Logistics Material for Permissive Action Link (PAL) Equipped Weapons (U)	0015	Effective 7/2/14*
DoD TB 700-2	DoD Ammunition and Explosives Hazard Classification Procedures	0015	Effective 7/2/14*
DOE O 130.1	Budget Formulation		
DOE M 140.1-1B	Interface with the Defense Nuclear Facilities Safety Board (DNFSB)		
DOE O 142.2A Admin Chg I	Voluntary Offer Safeguards Agreement and Additional Protocol with the IAEA	0015	Effective 7/2/14*
DOE M 142.2-1 Admin Chg 1	Manual for Implementation of the Voluntary Offer Safeguards Agreement and Additional Protocol with the International Atomic Energy Agency	0015	Effective 7/2/14*
DOE O 142.3A Chg 1	Unclassified Foreign Visits and Assignments Program	0101	Effective 3/22/17
DOE O 150.1A	Continuity Programs	0034	Effective 1/15/15
DOE O 151.1C	Comprehensive Emergency Management System	T	
DOE O 153.1	Departmental Radiological Emergency Response Assets		
DOE O 200.1A, Chg 1	Information Technology Management	0111	Effective 4/24/17
DOE M 205.1-3 Admin Chg 1	Telecommunications Security Manual	0015	Effective 7/2/14*
DOE O 205.1B Chg 3	Department of Energy Cyber Security Program	0034	Effective 1/6/15
DOE O 206.1	DOE Privacy Program		
DOE O 206.2	Identity, Credential, and Access Management (ICAM)	0015	Effective 7/2/14*
DOE O 210.2A	DOE Corporate Operating Experience Program		

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
DOE O 221.1B	Reporting Fraud, Waste and Abuse to Office of Inspector General	0094	Effective 1/12/17
DOE O 221.2A	Cooperation with the Office of Inspector General		
DOE O 225.1B	Accident Investigations		
DOE O 226.1B	Implementation of Department of Energy Oversight Policy		
DOE O 227.1A	Independent Oversight Program	0094	Effective 4/8/16
DOE O 231.1B Admin Chg 1	Environment, Safety and Health Reporting	0015	Effective 7/2/14*
DOE O 232.2A	Occurrence Reporting and Processing of Operations Information	0.101	Effective 3/23/17
DOE O 241.1B Admin Chg. 1	Scientific and Technical Information Management	0094	Effective 5/24/16
DOE O 243.1B Admin Chg. 1	Records Management Program		
DOE O 252.1A Admin Chg 1	Technical Standards Program	0015	Effective 7/2/14*
DOE O 325.2, Admin Chg 1	Position Management and Classification	0094	Effective 12/4/15
DOE O 341.1A	Federal Employee Health Services		
DOE O 410.2 Admin Chg 1	Management of Nuclear Materials	0015	Effective 7/2/14*
DOE O 411.2	Scientific Integrity	0101	Effective 3/22/17
DOE O 412.1A Admin Chg 1	Work Authorization System	0034	Effective 1/13/15
DOE O 413.1B	Internal Control Program		
DOE O 413.3B, Chg 3	Program and Project Management for Acquisition of Capital Assets	0094	Effective 1/25/17
DOE O 414.1D Admin Chg 1	Quality Assurance	0015	Effective 7/2/14*
DOE O 415.1 Chg 2	Information Technology Project Management	0111	Effective 4/17/17
DOE O 420.1C Chg 1	Facility Safety	0094	Effective 9/24/15
DOE G 420.1-1A	Nonreactor Nuclear Safety Design Guide for use with DOE O 420.1C Facility Safety	0015	Effective 7/2/14*
DOE O 422.1 Admin Chg 2	Conduct of Operations	0034	Effective 4/7/15
DOE O 425.1D, Admin. Chg I	Verification of Readiness to Start Up or Restart Nuclear Facilities	0015	Effective 7/2/14*
DOE O 426.2 Admin Chg 1	Personnel Selection, Training, Qualification and Certification Requirements for DOE Nuclear Facilities	0015	Effective 7/2/14*
DOE O 433.1B Admin Chg 1	Maintenance Management Program for DOE Nuclear Facilities	0015	Effective 7/2/14*
DOE O 435.1 Chg 1	Radioactive Waste Management		
DOE M 435.1-1 Admin Chg 2	Radioactive Waste Management Manual	0034	Effective 5/28/15
DOE N 435.1	Contact-Handled and Remote-Handled Transuranic Waste Packaging		
DOE O 436.1	Departmental Sustainability		
DOE O 440.2C Admin Chg 1	Aviation Management and Safety		
DOE M 441.1-1 Admin Chg 1	Nuclear Material Packaging Manual	0094	Effective 3/22/16
DOE O 442.1A	Department of Energy Employee Concerns Program	0015	Effective 7/2/14*

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
DOE O 442.2, Chg I	Differing Professional Opinions for Technical Issues Involving Environmental, Safety, and Health Technical Concerns	0094	Effective 1/17/17
DOE O 443.1B Chg 1	Protection of Human Research Subjects	0094	Effective 6/20/16
DOE O 452.1E	Nuclear Explosive and Weapon Surety Program	0045	Effective 5/26/15
DOE O 452.2E	Nuclear Explosive Safety	0045	Effective 5/29/15
DOE O 452.3	Management of DOE Nuclear Weapons Complex		
DOE O 452.4C	Security and Use Control of Nuclear Explosives and Nuclear Weapons	0094	Effective 4/7/16
DOE O 452.7	Protection of Use Control Vulnerabilities and Designs	0015	Effective 7/2/14*
DOE O 452.8	Control of Nuclear Weapon Data		
DOE 0 457.1A	Nuclear Counterterrorism	0015	Effective 7/2/14*
DOE O 458.1 Admin Chg 3	Radiation Protection of the Public and the Environment	0015	Effective 7/2/14*
DOE O 460.1D	Hazardous Materials Packaging and Transportation Safety	0111	Effective 4/26/17
DOE O 460.2A	Departmental Materials Transportation and Packaging Management		
DOE M 460.2-1A	Radioactive Material Transportation Practices Manual	0015	Effective 7/2/14*
DOE O 461.1C	Packaging and Transportation for Offsite Shipment of Materials of National Security Interest	0094	Effective 9/16/16
DOE O 461.2	Onsite Packaging and Transfer of Materials of National Security Interest		
DOE O 462.1 Admin Chg 1	Import and Export of Category 1 and 2 Radioactive Sources and Aggregate Quantities	0015	Effective 7/2/14*
DOE O 470.3C	Design Basis Threat (DBT) Order	0111	Effective 4/27/17
DOE M 470.4-4A Chg 1	Information Security Manual (Section D- Technical Surveillance countermeasures only)		
DOE O 470.4B Chg 2	Safeguards and Security Program	0111	Effective 4/17/17
DOE O 470.5	Insider Threat Program	0034	Effective 1/6/15
DOE O 471.1B	Identification and Protection of Unclassified Controlled Nuclear Information		
DOE O 471.3 Admin Chg 1	Identifying and Protecting Official Use Only Information		
DOE M 471.3-1 Admin Chg 1	Manual for Identifying and Protecting Official Use Only Information	0015	Effective 7/2/14*
DOE O 471.5	Special Access Programs		
DOE O 471.6 Admin Chg 2	Information Security	0045	Effective 10/1/15
DOE O 472.2 Chg 1	Personnel Security	0034	Effective 1/12/15
DOE O 473.3A	Protection Program Operations	0101	Effective 3/6/17
DOE O 474.2 Admin Chg 4	Nuclear Material Control and	0094	Effective 1/17/17

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
	Accountability		
DOE O 475.1	Counterintelligence Program		
DOE O 475.2B	Identifying Classified Information	0045	Effective 5/29/15
DOE M 481-1A, Chg 1	Reimbursable Work for Non-Federal Sponsors Process Manual	0015	Effective 4/7/15
DOE O 483.1B	DOE Cooperative Research and Development Agreements	0101	Effective 3/22/17
DOE O 484.1, Admin Chg 2	Reimbursable Work for the Department of Homeland Security	0034	Effective 4/7/15
DOE O 522.1	Pricing of Departmental Materials and Services	0015	Effective 7/2/14*
DOE O 534.1B	Accounting		
DOE O 551.1D Chg 2	Official Foreign Travel	0094	Effective 12/14/16
DOE O 5639.8A	Security of Foreign Intelligence Information and Sensitive Compartmented Information Facilities		
DOE-STD-1020-2012	DOE Standard - Natural Phenomena Hazards Analysis and Design Criteria for DOE Facilities	0015	Effective 7/2/14*
DOE-STD-1027-1992, Chg Notice 1	DOE Standard - Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports	0015	Effective 7/2/14*
DOE-STD-1066-2012	DOE Standard - Fire Protection	0015	Effective 7/2/14*
DOE-STD-1070-1994 (Reaffirmed July 2014)	DOE Standard – Guidelines for Evaluation of Nuclear Facility Training Programs	0034	Effective 1/15/15
DOE STD 1073-2003	DOE Standard - Configuration Management		
DOE-STD-1090-2011	DOE Standard - Hoisting and Rigging	0015	Effective 7/2/14*
DOE-HDBK-1092-2013	DOE Handbook - Electrical Safety	0015	Effective 7/2/14*
DOE-STD-1186-2004	DOE Standard - Specific Administrative Controls	0015	Effective 7/2/14*
DOE-STD-1189-2008	DOE Standard – Integration of Safety into the Design Process	0015	Effective 7/2/14*
DOE-STD-1195-2011	DOE Standard -Design of Safety Significant Safety Instrumented Systems Used at DOE Non-Reactor Nuclear Facilities	0015	Effective 7/2/14*
DOE-STD-1212-2012	DOE Standard - Explosives Safety	0015	Effective 5/29/15
DOE-STD-3007-2007	DOE Standard - Guidelines for Preparing Criticality Safety Evaluations at DOE Non-Reactor Nuclear Facilities		
DOE-STD-3009-1994	DOE-Standard - Preparation Guide for U.S. Department of Energy Nonreactor Nuclear Facility Documented Safety Analysis	0015	Effective 7/2/14* Effective 5/11/17 (Mod 0111) Applies to existing facilities except where DOE-STD-3009-2014 applies.
DOE-STD-3009-2014	DOE-Standard - Preparation of Nonreactor Nuclear Facility Documented Safety Analysis	0111	Effective 5/11/17 Applies to new non-reacto nuclear facilities and majo

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
			modifications to existing non-reactor nuclear facilities (initiated after the effective date) per DOE O 420.1C.
DOE-NA-STD-3016-2016	DOE Limited Standard – Hazard Analysis Reports for Nuclear Explosive Operations	0101	Effective 2/7/17
DOE-STD-3020-2015	DOE Standard - Specification for HEPA Filters Used by DOE Contractors	0101	Effective 2/6/17
DOE-STD-3024-2011	DOE Standard - Content of System Design Descriptions	0015	Effective 7/2/14*
DOE-STD-3025-2007	DOE Standard Quality Assurance Inspection and Testing of HEPA Filters	0015	Effective 7/2/14*
DOE Technical Manual DOE-SNL-TYPEBARG-REV2- CHNG0	Procedures for Type A, Type B, ARG, and Miscellaneous Containers Transported in Safeguards Transporter	0034	Effective 5/28/15 (Reference Document & Title Change)
EP-401075 Issue D	Electrical Testers for Nuclear Explosives		
Executive Order 11514	Protection and enhancement of Environmental Quality	0015	Effective 7/2/14*
Executive Order 11988	Floodplain Management	0015	Effective 7/2/14*
Executive Order 11990	Protection of Wetlands	0015	Effective 7/2/14*
Executive Order 12333	U. S. Intelligence Activities	0015	Effective 7/2/14*
Executive Order 12898	Environmental Justice	0015	Effective 7/2/14*
Executive Order 13186	Responsibilities of Federal Agencies to Protect Migratory Birds	0015	Effective 7/2/14*
Executive Order 13513	Federal Leadership on Reducing Text Messaging While Driving	0015	Effective 7/2/14*
Executive Order 13556	Controlled Unclassified Information		
Joint DOE/DoD Technical Publication 45-51B	Transportation of Nuclear Weapons Material	0034	Effective 5/28/15 (Reference Document Change)
NA-10 WQAPM	Weapon Quality Assurance Procedures Manual	0034	See NAP-24A comments
NFPA Codes and Standards	NFPA Codes and Standards	i	
NHPA CRMP (April 2004)	Pantex Plant Cultural Resource Management Plan	0094	Effective 5/29/15
NNSA BOP 001.311	NNSA Budget Validation Process	<u> </u>	
NNSA BOP 06.01, Admin Chg 1	Value Management	0034	Effective 5/28/15 (Reference Document Change Only)
NNSA Policy Letter: NAP 14.1-C, Chapter VII	NNSA Baseline Cyber Security Program	0015	Effective 7/2/14*
NNSA Policy Letter, NAP-14.1-D	Baseline Cyber Security Program	0015	Effective 7/2/14*
NNSA Policy Letter: NAP 14.3-B	Transmission of Restricted Data over Secret Internet Protocol Router Network (SIPRNet)		
NNSA Policy Letter: NAP-23, Admin Chg 1	Atomic Energy Act Control of Import and Export Activities	0034	Effective 5/26/15

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
NNSA Policy Letter: NAP-24A	Weapon Quality Policy	0094	Implementation Plan conditionally approved 5/11/17
NNSA Policy Letter: NAP-25, Admin Chg 1	Management and Operating Contractor Business Meals and Light Refreshments	0015	Effective 7/2/14*
NNSA Policy Letter, NAP-31	NNSA M&O Off-Site Extended Duty Assignments	0094	Effective 1/18/17
NPO Procedure - NPO-SD 3.4.3 (Applies to Pantex Only)	Conducting Readiness Reviews of Hazardous Non-Nuclear Facilities and Activities	0015	Effective 7/2/14*
NNSA Quality Plan 100-1 (QP-100) - The 1985 US/UK Mutual Defense Agreement, as Amended	Quality Plan 100-1		
NNSA Supplemental DirectiveNNSA SD 226.1B	NNSA Site Governance	0094	Effective 11/7/16
NNSA Supplemental Directive – NA SD O 350.1	Management and Operating Contractor Service Credit Recognition	0015	Effective 7/2/14*
NNSA Supplemental Directive – NNSA SD 415.1	Project Oversight for Information Technology (PO-IT)	0094	Effective 7/20/16
NNSA Supplemental Directive – NNSA SD 452.2	Nuclear Explosive Safety Evaluation Processes	0034	Effective 5/26/15
NNSA Supplemental Directive – NNSA SD 430.1	Real Property Asset Management	0101	Effective 3/29/17
NNSA Supplemental Directive - NNSA SD 452.3-1A	Defense Programs Business Process System (DPBPS)	0094	Effective 7/5/16
	DPBPS Level 2 Business Requirements can be found in the DPBPS Portal (a) https://dpbps.sandia.gov/SitePages/homepage.aspx		See DPBPS Website for Issue and Effective Date @ https://dpbps.sandia.gov/Sit ePages/Content-Explorer- Federal-Requirements.aspx
NNSA Supplemental Directive – NNSA SD 452.3-2	Phase 6.X Process	0111	Effective 4/26/17
NNSA Supplemental Directive – NNSA SD 473.3	Enterprise Mission Essential Task List- based Protective Force Training Program	0034	Effective 3/31/15
NNSA Supplemental Directive NNSA SD G 1027, Admin Chg 1	Guidance on Using Release Fraction and Modern Dosimetric Information Consistently with DOE STD 1027-92, Hazard Categorization and Accident Analysis Techniques for Compliance with DOE Order 5480.23, Nuclear Safety Analysis Reports, Change Notice No. 1	0034	Effective 1/15/15
ORR PCB FFCA	Oak Ridge Reservation Polychlorinated Biphenyl Federal Facilities Compliance Agreement		
PSLM	Primary Standards Lab Memo		
Technical Business Practices (TBP) and Infrastructure Business Practices (IBPs)	Technical Business Practices (TBP) and Infrastructure Business Practices (IBPs) For additional implementing information on TBPs visit the Defense Program Legacy (PRP Online) Home (a) https://prp.sandia.gov/TBPs/Forms/Alll tems.aspx	0094	See Defense Program Legacy (PRP Online) Home for Issue and Effective Date @ https://prp.sandia.gov/SitePages/Home.aspx

Reference Document	Title	Mod	Effective Date (Contracting Officer Direction Date) and Relevant Notes
	For additional implementing information on IBPs visit the Defense Program Legacy (PRP Online) Home (https://prp.sandia.gov/IBPs/Forms/Allitems.aspx		
RM 257945	AL-R8 Pit Matrix Requirements	0015	Effective 7/2/14*
YSO-CRD-09-01 (Applies to Y-12 Only)	Projects Contractor Requirements Document (CRD)		

^{*} Modification No. 0015 incorporated revised Appendix N, List of Applicable Directives, in accordance with Contracting Officer direction dated July 2, 2014, entitled "Contract Number DE-NA0001942, Submittal of Revised Implementation Plan for Applicable Directives."

LIST OF DELETED/CANCELLED DIRECTIVES

The table below reflects all requirements that have been deleted in prior modifications 0015, 0034, 0045, 0094 and 0101.

Reference Document	Title	Mod	Notes
DOE O 313.1	Management and Funding of the Department's Overseas Presence	0034	Deleted Effective 4/16/15
DOE O 350.2B	Use of Management and Operating or Other Facility Management Contractor Employees for Services to DOE in the Washington, DC Area	0094	Cancelled by DOE N 251.115 (replaced by NAP 31 Effective 1/18/17)
DOE O 430.1B Admin Chg 2	Real Property and Asset Management	0094	Deleted Effective 12/21/16
DOE M 440.1-1A	DOE Explosive Safety Manual	0015	Deleted Effective 9/12/14
DOE M 452.2-1A	Nuclear Explosive Safety Manual	0045	Cancelled by DOE Order 452.2E
DOE M 452.2-2 Chg 1	Nuclear Explosive Safety Evaluation Processes	0034	Cancelled by DOE NNSA SD 452.2
DOE M 457.1-1	Control of Improvised Nuclear Device Information	0015	Deleted Effective 9/12/14
DOE P 470.1A	Safeguards and Security Program	0015	Deleted Effective 9/12/14
DOE M 471.2-4	Technical Surveillance Countermeasures Manual (TSCM) (Classified Annex only)	0015	Cancelled by DOE M 470.4-4A Chg 1
DOE M 483.1-1	DOE Cooperative Research and Developments Agreements Manual	0015	Deleted Effective 9/12/14
DOE O 580.1A Admin Chg I	Department of Energy Personal Property Management Program	0101	Cancelled by DOE N 251.118 Effective 2/16/17
DOE-STD-1135-1999	DOE Standard – Guidance for Nuclear Criticality Safety Engineer Training and Qualification	0034	Deleted (Duplicate and covered in DOE Order 420.1C)
DOE STD 3024-98	DOE Standard - Content of System Design Description	0015	Deleted Effective 9/12/14
DOE SNL TYPEBARG	Tie-down Procedure for Type A, B, ARG, and Miscellaneous Containers	0034	Language combined/revised last Mod (per Emory Hogan) See: "DOE Technical
Executive Order 13423	Strengthening Federal Environmental, Energy, and Transportation Management	0094	Manual" Deleted effective 12/13/16 DEAR 970.5223.6 covered
DOE O 544.1	Priorities and Allocations Program	0015	Deleted Effective 9/12/14
Executive Order 13514	Federal Leadership in Environmental, Energy, and Economic Performance	0034	Deleted Duplicative requirement of DOE O 436.1
Executive Order 13526	Classified National Security Information	0034	Deleted Duplicative requirement to DOE Order 476.2A
NNSA BOP 001.5	Management and Operating Contractor Employment Reporting	0094	Cancelled Effective 12/14/16
BOP 003.08	Management and Operating Contractor Business Meals and Light Refreshment	0015	Deleted Effective 9/12/14

Reference Document	Title	Mod	Notes
BOP 50.002	Value Management Policy	0015	Deleted Effective 9/12/14
BOP 50.003	Independent Project Review Policy	0015	Deleted Effective 9/12/14
NAP 14.2-C	NNSA Certification and Accreditation (C&A) Process for Information Systems	0015	Deleted Effective 9/12/14
NNSA Policy Letter: NAP 21	Transformational Governance and Oversight	0094	Cancelled by NNSA SD 226.1B
NAP 70.2	Physical Protection	0015	Deleted Effective 9/12/14
NAP 70.4	Information Security	0015	Deleted Effective 9/12/14
NAP 9A	Secon Implementation	0015	Deleted Effective 9/12/14
IBP-202	Record of Assembly and Disassembly	0015	Deleted Effective 9/12/14
IBP-401	Product Definition Exchange Process	0015	Deleted Effective 9/12/14
IBP-404	Engineering Authorization System	0015	Deleted Effective 9/12/14
Letter	Letter dated 6/2/2010 from Thomas D. D'Agostino to Theodore Sherry, Expert- Based Unreviewed Safety Question Determination Procedure	0015	Deleted Effective 9/12/14
NNSA Supplemental Directive – NA-SD 350.2 Rev 1	Use of M&O Contractor Employees for Service to the NNSA in the Washington DC Area	0094	Cancelled by NAP 31 Effective 1/18/17
QC-1 Revision 10	DOE/NNSA Weapon Quality Policy (QC-1)	0015	Deleted Effective 9/12/14
Site Specific CRD	Startup and Restart of Operations, Activities and Facilities	0015	Deleted Effective 9/12/14
Site Specific CRD	Directive Systems Process	0015	Deleted Effective 9/12/14
Standard Building Code	International Building Code	0015	Deleted Effective 9/12/14
YSO-CRD-03-01 (Applies to Y-12 Only)	Startup and Restart of Operations, Activities, and Facilities at Y-12 including Safety Basis Document Implementation (Applicable until such time that decision on incorporating into NPO-SD3.4.3 is decided).	0101	Deleted Effective 3/9/17

(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 the effective date of the Contract or acceptance of the directive after the effective date of the Contract.
- (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.

End of Appendix -