

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE R - CPAF	PAGE OF PAGES 1 of 12
2. AMENDMENT/MODIFICATION NO. A003		3. EFFECTIVE DATE CO DATE SIGNED 898358	4. REQUISITION/PURCHASE REQ.NO. SEE SCHEDULE		5. PROJECT NO. (If applicable)
6. ISSUED BY FAD/S+SD CODE		7. ADMINISTERED BY (If other than Item 6) CODE			898358
DEPARTMENT OF ENERGY NNSA SERVICE CENTER P.O. BOX 5400 ALBUQUERQUE, NM 87185-5400 MARY B. HENRY 505-845-6493 MHENRY@DOEAL.GOV					
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code) NAVARRO NEVADA ENVIRONMENTAL SERVICES NAVARRO NEVADA ENVIRONMENTAL SERVICES LLC 669 EMORY VALLEY ROAD OAK RIDGE TN 37830-6806 (865) 220-9650				(X)	9A. AMENDMENT OF SOLICITATION NO.
					9B. DATED (SEE ITEM 11)
				X	10A. MODIFICATION OF CONTRACT/ORDER NO. DE-AC52-09NA28091
					10B. DATED (SEE ITEM 13) 01 JAN 2009
CODE 528P5		FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS					
<input type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> 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 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) SEE SCHEDULE					
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.					
(X)					
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: ( ) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. 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: FAR 52.243-2 - Alt I					
D. OTHER (Specify type of modification and authority)					
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 1 copies to the issuing office.					
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SUBJECT: Administrative changes to update the contract requirements, add incremental funding, change the period of performance and transfer contracting officer's authority. Change in Obligation Amount: \$1,000,000.00 Contract Value remains 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) Susana Navarro-Valenti, Chairwoman			16A. NAME AND TITLE OF SIGNER (Type or print) MARY B. HENRY Contracting Officer		
15B. CONTRACTOR/OFFEROR  Susana Navarro-Valenti (Signature of person authorized to sign)		15C. DATE SIGNED 9-21-09	16B. UNITED STATES OF AMERICA BY Mary B Henry (Signature of Contracting Officer)		16C. DATE SIGNED 9-22-2009

SCHEDULE OF CHANGES

1. The purpose of this modification is to add incremental funding; transfer Contracting Officer Authority; revise the period of performance; update, revise, and replace certain contract clauses; and replace the original Performance Work Statement and List of Applicable Directives.
2. Total funded amount is changed from \$0.00 to \$1,000,000.00.
3. Contracting Officer Authority for this contract is hereby transferred to Ms. Laura Haverlock, NNSA Nevada Site Office as identified in SECTION G, CLAUSE G001, CONTRACT ADMINISTRATION DATA.
4. Additional changes to the contract are more specifically identified as follows:
  - a. Add/update the following CLIN and SubCLIN information in SECTION B - SUPPLIES OR SERVICES as indicated:

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0001	CLIN Change		<b>EST +\$0.00</b>
	<i>Noun:</i> ENVIRONMENTAL CHARACTERIZATION AND REMEDIATION SERVICES <i>Total Item Amount:</i> \$16,873,978.00 <i>Contract type:</i> R - COST PLUS AWARD FEE <i>Start Date:</i> 01 OCT 2009 <i>Completion Date:</i> 30 SEP 2011 <i>Descriptive Data:</i> The Contractor shall furnish all personnel and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to accomplish the work specified in Section J, Attachment 1, Performance Work Statement, dated 15 September 2009. The Contractor shall perform the work at designated corrective action sites at various locations where underground nuclear testing or related support activities have occurred within the cognizance of the Nevada Site Office to include the Nevada Test Site, portions of Tonopah Test Range, and portions of Nevada Test and Training Range which is formerly Nellis Air Force Base.		
000101	CLIN Change		
	<i>Noun:</i> Funding Info Only <i>ACRN:</i> AA +\$1,000,000.00 <i>PR/MIPR:</i> 52-09NA28091.503		
			\$1,000,000.00

SCHEDULE OF CHANGES

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0002	CLIN Change		EST +\$0.00
	<i>Noun:</i>	AWARD FEE & PERFORMANCE INCENTIVE FEE	
	<i>Total Item Amount:</i>	\$1,377,120.00	
	<i>Contract type:</i>	R - COST PLUS AWARD FEE	
	<i>Start Date:</i>	01 OCT 2009	
	<i>Completion Date:</i>	30 SEP 2011	
	<i>Descriptive Data:</i>	The total available fee, consisting of an award fee component for subjective performance requirements and a performance incentive fee component for objective performance requirements, determined in accordance with Section H.	
0003	CLIN Change		+\$0.00
	<i>Noun:</i>	TRAVEL	
	<i>Total Item Amount:</i>	\$1,213,939.00	
	<i>Contract type:</i>	R - COST PLUS AWARD FEE	
	<i>Start Date:</i>	01 OCT 2009	
	<i>Completion Date:</i>	30 SEP 2011	
	<i>Descriptive Data:</i>	The Contractor shall furnish all travel necessary to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing.</i></b>	
0004	CLIN Change		+\$0.00
	<i>Noun:</i>	MATERIALS/SUPPLIES	
	<i>Total Item Amount:</i>	\$1,655,371.00	
	<i>Contract type:</i>	R - COST PLUS AWARD FEE	
	<i>Start Date:</i>	01 OCT 2009	
	<i>Completion Date:</i>	30 SEP 2011	
	<i>Descriptive Data:</i>	The contractor shall furnish all materials (except as may be expressly set forth in this contract as furnished by the Government) to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing.</i></b>	
0005	CLIN Change		+\$0.00
	<i>Noun:</i>	EQUIPMENT	
	<i>Total Item Amount:</i>	\$1,489,834.00	
	<i>Contract type:</i>	R - COST PLUS AWARD FEE	
	<i>Start Date:</i>	01 OCT 2009	
	<i>Completion Date:</i>	30 SEP 2011	
	<i>Descriptive Data:</i>	The Contractor shall provide all costs associated with cost allocations, charge-backs and all Contractor-acquired property to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing.</i></b>	

SCHEDULE OF CHANGES

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
------	----------------------	-------------------	---------------------------------

0006	CLIN Change		<b>NSP</b>
------	-------------	--	------------

*Noun:* DATA AND REPORTS SUPPORTING CLIN 0001, AND CLINS 0007, 0012, & 0017

*Total Item Amount:* \$0.00

*ACRN:* U

*Contract type:* R - COST PLUS AWARD FEE

*Start Date:* **01 OCT 2009**

*Completion Date:* ASREQ

*Descriptive Data:*  
The contractor shall submit reports in accordance with Section J Attachment 2 entitled, "Reporting Requirements Checklist." **This CLIN is not separately priced (NSP)** and price for this effort is included in CLIN 0001 and CLINs 0007, 0012 and 0017 if these Options are exercised.

0007	OPTION CLIN		
------	-------------	--	--

*Noun:* OPTION 1 - ENVIRONMENTAL CHARACTERIZATION & REMEDIATION SERVICES

*Descriptive Data:*  
**(1 Oct 2011 - 30 Sep 2012).** The Contractor shall furnish all personnel and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to accomplish the work specified in Section J, Attachment 1, Performance Work Statement, dated dated 15 September 2009. The Contractor shall perform the work at designated corrective action sites at various locations where underground nuclear testing or related support activities have occurred within the cognizance of the Nevada Site Office to include the Nevada Test Site, portions of Tonopah Test Range, and portions of Nevada Test and Training Range which is formerly Nellis Air Force Base. **(The value of Option 1, if exercised, shall be \$8,317,938).**

0008	OPTION CLIN		
------	-------------	--	--

*Noun:* OPTION 1 - AWARD FEE & PERFORMANCE INCENTIVE FEE

*Descriptive Data:*  
**(1 Oct 2011 - 30 Sep 2012).** The total available fee, consisting of an award fee component for subjective performance requirements and a performance incentive fee component for objective performance requirements, determined in accordance with Section H. **(The value of this CLIN if exercised shall be \$679,754).**

0009	OPTION CLIN		
------	-------------	--	--

*Noun:* OPTION 1 - TRAVEL

*Descriptive Data:*  
**(1 Oct 2011 - 30 Sep 2012).** The Contractor shall furnish all travel necessary to accomplish the work specified in the Performance Work Statement. **This is a cost reimbursable item only and is non-fee bearing. (The value of Option 1 travel if exercised, shall be \$639,018).**

SCHEDULE OF CHANGES

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0010	OPTION CLIN		
	<p><i>Noun:</i> OPTION 1 - MATERIALS/SUPPLIES</p> <p><i>Descriptive Data:</i> (1 Oct 2011 - 30 Sep 2012). The contractor shall furnish all materials (except as may be expressly set forth in this contract as furnished by the Government) to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 1 material if exercised, shall be \$871,388).</i></b></p>		
0011	OPTION CLIN		
	<p><i>Noun:</i> OPTION 1 - EQUIPMENT</p> <p><i>Descriptive Data:</i> (1 Oct 2011 - 30 Sep 2012). The Contractor shall provide all costs associated with cost allocations, charge-backs and all Contractor-acquired property to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 1 equipment if exercised, shall be \$784,249).</i></b></p>		
0012	OPTION CLIN		
	<p><i>Noun:</i> OPTION 2 - ENVIRONMENTAL CHARACTERIZATION &amp; REMEDIATION SERVICES</p> <p><i>Descriptive Data:</i> (1 Oct 2012 - 30 Sep 2013). The Contractor shall furnish all personnel and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to accomplish the work specified in Section J, Attachment 1, Performance Work Statement, dated dated 15 September 2009. The Contractor shall perform the work at designated corrective action sites at various locations where underground nuclear testing or related support activities have occurred within the cognizance of the Nevada Site Office to include the Nevada Test Site, portions of Tonopah Test Range, and portions of Nevada Test and Training Range which is formerly Nellis Air Force Base. <b><i>(The value of Option 2, if exercised, shall be \$8,029,997).</i></b></p>		
0013	OPTION CLIN		
	<p><i>Noun:</i> OPTION 2 - AWARD FEE &amp; PERFORMANCE INCENTIVE FEE</p> <p><i>Descriptive Data:</i> (1 Oct 2012 - 30 Sep 2013). The total available fee, consisting of an award fee component for subjective performance requirements and a performance incentive fee component for objective performance requirements, determined in accordance with Section H. <b><i>(The value of this CLIN if exercised shall be \$657,220).</i></b></p>		

SCHEDULE OF CHANGES

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0014	OPTION CLIN		
	<i>Noun:</i> OPTION 2 - TRAVEL		
	<i>Descriptive Data:</i> (1 Oct 2012 - 30 Sep 2013). The Contractor shall furnish all travel necessary to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 2 travel if exercised, shall be \$661,384).</i></b>		
0015	OPTION CLIN		
	<i>Noun:</i> OPTION 2 - MATERIALS/SUPPLIES		
	<i>Descriptive Data:</i> (1 Oct 2012 - 30 Sep 2013). The contractor shall furnish all materials (except as may be expressly set forth in this contract as furnished by the Government) to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 2 material if exercised, shall be \$901,887).</i></b>		
0016	OPTION CLIN		
	<i>Noun:</i> OPTION 2 - EQUIPMENT		
	<i>Descriptive Data:</i> (1 Oct 2012 - 30 Sep 2013). The Contractor shall provide all costs associated with cost allocations, charge-backs and all Contractor-acquired property. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 2 equipment if exercised, shall be \$811,698).</i></b>		
0017	OPTION CLIN		
	<i>Noun:</i> OPTION 3 - ENVIRONMENTAL CHARACTERIZATION & REMEDIATION SERVICES		
	<i>Descriptive Data:</i> (1 Oct 2013 - 30 Sep 2014). The Contractor shall furnish all personnel and services (except as may be expressly set forth in this contract as furnished by the Government) and otherwise do all things necessary to accomplish the work specified in Section J, Attachment 1, Performance Work Statement, dated dated 15 September 2009. The Contractor shall perform the work at designated corrective action sites at various locations where underground nuclear testing or related support activities have occurred within the cognizance of the Nevada Site Office to include the Nevada Test Site, portions of Tonopah Test Range, and portions of Nevada Test and Training Range which is formerly Nellis Air Force Base. <b><i>(The value of Option 3, if exercised, shall be \$6,821,572).</i></b>		
0018	OPTION CLIN		
	<i>Noun:</i> OPTION 3 - AWARD FEE & PERFORMANCE INCENTIVE FEE		
	<i>Descriptive Data:</i> (1 Oct 2013 - 30 Sep 2014). The total available fee, consisting of an award fee component for subjective performance requirements and a performance incentive fee component for objective performance requirements, determined in accordance with Section H. <b><i>(The value of this CLIN if exercised shall be \$561,064).</i></b>		

SCHEDULE OF CHANGES

ITEM	SUPPLIES OR SERVICES	Qty Purch Unit	Unit Price Total Item Amount
0019	OPTION CLIN  <i>Noun:</i> OPTION 3 - TRAVEL <i>Descriptive Data:</i> <b>(1 Oct 2013 - 30 Sep 2014).</b> The Contractor shall furnish all travel necessary to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 3 travel if exercised, shall be \$684,532).</i></b>		
0020	OPTION CLIN  <i>Noun:</i> OPTION 3 - MATERIALS/SUPPLIES <i>Descriptive Data:</i> <b>(1 Oct 2013 - 30 Sep 2014).</b> The contractor shall furnish all materials (except as may be expressly set forth in this contract as furnished by the Government) to accomplish the work specified in the Performance Work Statement. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 3 material if exercised, shall be \$933,453).</i></b>		
0021	OPTION CLIN  <i>Noun:</i> OPTION 3 - EQUIPMENT <i>Descriptive Data:</i> <b>(1 Oct 2013 - 30 Sep 2014).</b> The Contractor shall provide all costs associated with cost allocations, charge-backs and all Contractor-acquired property. <b><i>This is a cost reimbursable item only and is non-fee bearing. (The value of Option 3 equipment if exercised, shall be \$840,107).</i></b>		

b. Clause B006 ESTIMATED COST, BASE, AND AWARD FEE AND PERFORMANCE INCENTIVE FEE - INCREMENTALLY FUNDED (FEB 2008) is deleted and replaced in its entirety as follows:

**B006 ESTIMATED COST, BASE, AND AWARD FEE AND PERFORMANCE INCENTIVE FEE - INCREMENTALLY FUNDED (FEB 2008)**

(a) Pursuant to FAR Clause 52.216-7, "Allowable Cost and Payment," the total estimated cost for the base period of this contract is \$22,610,242.00.

(b) The base fee for this contract is \$0.00.

(c) The total available fee for the base period of this contract is \$1,377,120.00.

(d) The total amount for the base period of this contract, not including fee, is \$21,233,122.00.

(e) Pursuant to FAR Clause 52.232-22, "Limitation of Funds," the total amount of incremental funding allotted to this contract is \$1,000,000.00. It is estimated that this amount is sufficient to cover performance through October 31, 2009.

c. SECTION F - DELIVERIES OR PERFORMANCE: Clause F002 PERIOD OF PERFORMANCE - COMPLETION (FEB 2005) is deleted and replaced in its entirety as follows:

**F002 PERIOD OF PERFORMANCE - COMPLETION (FEB 2005)**

SCHEDULE OF CHANGES

(a) The period of performance for CLINs 0001 - 0006, Environmental Characterization and Remediation Services is from October 1, 2009 through September 30, 2011.

If exercised, the periods of performance for Options are as follows:

(b) CLINs 0007 - 0011, Option 1 is from October 1, 2011 through September 30, 2012.

(c) CLINs 0012 - 0016, Option 2 is from October 1, 2012 through September 30, 2013.

(d) CLINs 0017 - 0021, Option 3 is from October 1, 2013 through September 30, 2014.

d. SECTION G - CONTRACT ADMINISTRATION DATA: Add/Update the following ACRN information:

ACRN	Appropriation/Lmt Subhead/Supplemental Accounting Data	Obligation Amount
<b>AA</b>	ACRN Change	<b>+\$1,000,000.00</b>
01250.2009.01.100260.61000000.25110.1111217.0002176.0000000.0000000.0000000		
	<i>New ACRN Amount:</i>	\$1,000,000.00
	<i>Funding breakdown:</i>	On CLIN 000101: +\$1,000,000.00
	<i>PR/MIPR:</i>	<b>52-09NA28091.503 \$1,000,000.00</b>

e. SECTION I, CONTRACT CLAUSES:

1) Delete **FAR 52.204-02 SECURITY REQUIREMENTS (DEVIATION) (May 2002)** and **DEAR 952.204-2 SECURITY (DEVIATION) (MAY 2002)** and replace in their entirety as follows:

**952.204-2 SECURITY (AUG 2009)**

(a) Responsibility. It is the Contractor's duty to protect all classified information, special nuclear material, and other DOE property. The Contractor shall, in accordance with DOE security regulations and requirements, be responsible for protecting all classified information and all classified matter (including documents, material and special nuclear material) which are in the Contractor's possession in connection with the performance of work under this contract against sabotage, espionage, loss or theft. Except as otherwise expressly provided in this contract, the Contractor shall, upon completion or termination of this contract, transmit to DOE any classified matter or special nuclear material in the possession of the Contractor or any person under the Contractor's control in connection with performance of this contract. If retention by the Contractor of any classified matter is required after the completion or termination of the contract, the Contractor shall identify the items and classification levels and categories of matter proposed for retention, the reasons for the retention, and the proposed period of retention. If the retention is approved by the Contracting Officer, the security provisions of the contract shall continue to be applicable to the classified matter retained. Special nuclear material shall not be retained after the completion or termination of the contract.

(b) Regulations. The Contractor agrees to comply with all security regulations and contract requirements of DOE as incorporated into the contract.

(c) Definition of Classified Information. The term Classified Information means information that is classified as Restricted Data or Formerly Restricted Data under the Atomic Energy Act of 1954, or information determined to require protection against unauthorized disclosure under Executive Order 12958, Classified National Security Information, as amended, or prior executive orders, which is identified as National Security Information.

(d) Definition of Restricted Data. The term Restricted Data means all data concerning design, manufacture, or utilization of atomic weapons; production of special nuclear material; or use of special nuclear material in the production of energy, but excluding data declassified or removed from the Restricted Data category pursuant to 42 U.S.C. 2162 [Section 142, as amended, of the Atomic Energy Act of 1954].

(e) Definition of Formerly Restricted Data. The term "Formerly Restricted Data" means information removed from the Restricted Data category based on a joint determination by DOE or its predecessor agencies and the Department of Defense that the information: (1) relates primarily to the military utilization of atomic weapons; and (2) can be adequately protected as National Security Information. However, such information is subject to the same restrictions on transmission to other countries or regional defense organizations that apply to Restricted Data.

(f) Definition of National Security Information. The term "National Security Information" means information that has been determined, pursuant to Executive Order 12958, Classified National Security Information, as amended, or any predecessor order, to require protection against unauthorized disclosure, and that is marked to indicate its classified status when in documentary form.

(g) Definition of Special Nuclear Material. The term "special nuclear material" means: (1) plutonium, uranium enriched in the isotope 233 or in the isotope 235, and any other material which, pursuant to 42 U.S.C. 2071 [section 51 as amended, of the Atomic Energy Act of 1954] has been determined to be special nuclear material, but does not include source material; or (2) any material artificially enriched by any of the foregoing, but does not include source material.

(h) Access authorizations of personnel.

(1) The Contractor shall not permit any individual to have access to any classified information or special nuclear material, except in accordance with the Atomic Energy Act of 1954, and the DOE's regulations and contract requirements applicable to the particular level and category of classified information or particular category of special nuclear material to which access is required.

(2) The Contractor must conduct a thorough review, as defined at 48 CFR 904.401, of an uncleared applicant or uncleared employee, and must test the individual for illegal drugs, prior to selecting the individual for a position requiring a DOE access authorization.

(i) A review must: verify an uncleared applicant's or uncleared employee's educational background, including any high school diploma obtained within the past five years, and degrees or diplomas granted by an institution of higher learning; contact listed employers for the last three years and listed personal references; conduct local law enforcement checks when such checks are not prohibited by state or local law or regulation and when the uncleared applicant or uncleared employee resides in the jurisdiction where the Contractor is located; and conduct a credit check and other checks as appropriate.

(ii) Contractor reviews are not required for an applicant for DOE access authorization who possesses a current access authorization from DOE or another Federal agency, or whose access authorization may be reapproved without a federal background investigation pursuant to Executive Order 12968, Access to Classified Information (August 4, 1995), Sections 3.3(c) and (d).

(iii) In collecting and using this information to make a determination as to whether it is appropriate to select an uncleared applicant or uncleared employee to a position requiring an access authorization, the Contractor must comply with all applicable laws, regulations, and Executive Orders, including those: (a) governing the processing and privacy of an individual's information, such as the Fair Credit Reporting Act, Americans with Disabilities Act (ADA), and Health Insurance Portability and Accountability Act; and (b)

prohibiting discrimination in employment, such as under the ADA, Title VII and the Age Discrimination in Employment Act, including with respect to pre- and post-offer of employment disability related questioning.

(iv) In addition to a review, each candidate for a DOE access authorization must be tested to demonstrate the absence of any illegal drug, as defined in 10 CFR Part 707.4. All positions requiring access authorizations are deemed testing designated positions in accordance with 10 CFR Part 707. All employees possessing access authorizations are subject to applicant, random or for cause testing for use of illegal drugs. DOE will not process candidates for a DOE access authorization unless their tests confirm the absence from their system of any illegal drug.

(v) When an uncleared applicant or uncleared employee receives an offer of employment for a position that requires a DOE access authorization, the Contractor shall not place that individual in such a position prior to the individual's receipt of a DOE access authorization, unless an approval has been obtained from the head of the cognizant local security office. If the individual is hired and placed in the position prior to receiving an access authorization, the uncleared employee may not be afforded access to classified information or matter or special nuclear material (in categories requiring access authorization) until an access authorization has been granted.

(vi) The Contractor must furnish to the head of the cognizant local DOE Security Office, in writing, the following information concerning each uncleared applicant or uncleared employee who is selected for a position requiring an access authorization:

- A. The date(s) each Review was conducted;
- B. Each entity that provided information concerning the individual;
- C. A certification that the review was conducted in accordance with all applicable laws, regulations, and Executive Orders, including those governing the processing and privacy of an individual's information collected during the review;
- D. A certification that all information collected during the review was reviewed and evaluated in accordance with the Contractor's personnel policies; and
- E. The results of the test for illegal drugs.

(i) Criminal liability. It is understood that disclosure of any classified information relating to the work or services ordered hereunder to any person not entitled to receive it, or failure to protect any classified information, special nuclear material, or other Government property that may come to the Contractor or any person under the Contractor's control in connection with work under this contract, may subject the Contractor, its agents, employees, or Subcontractors to criminal liability under the laws of the United States (see the Atomic Energy Act of 1954, 42 U.S.C. 2011 et seq.; 18 U.S.C. 793 and 794).

(j) Foreign Ownership, Control, or Influence.

(1) The Contractor shall immediately provide the cognizant security office written notice of any change in the extent and nature of foreign ownership, control or influence over the Contractor which would affect any answer to the questions presented in the Standard Form (SF) 328, Certificate Pertaining to Foreign Interests, executed prior to award of this contract. In addition, any notice of changes in ownership or control which are required to be reported to the Securities and Exchange Commission, the Federal Trade Commission, or the Department of Justice, shall also be furnished concurrently to the Contracting Officer.

(2) If a Contractor has changes involving foreign ownership, control, or influence, DOE must determine whether the changes will pose an undue risk to the common defense and security. In making this determination, DOE will consider proposals made by the Contractor to avoid or mitigate foreign influences.

(3) If the cognizant security office at any time determines that the Contractor is, or is potentially, subject to foreign ownership, control, or influence, the Contractor shall comply with such instructions as the Contracting Officer shall provide in writing to protect any classified information or special nuclear material.

(4) The Contracting Officer may terminate this contract for default either if the Contractor fails to meet obligations imposed by this clause or if the Contractor creates a foreign ownership, control, or influence

situation in order to avoid performance or a termination for default. The Contracting Officer may terminate this contract for convenience if the Contractor becomes subject to foreign ownership, control, or influence and for reasons other than avoidance of performance of the contract, cannot, or chooses not to, avoid or mitigate the foreign ownership, control, or influence problem.

(k) Employment announcements. When placing announcements seeking applicants for positions requiring access authorizations, the Contractor shall include in the written vacancy announcement, a notification to prospective applicants that reviews, and tests for the absence of any illegal drug as defined in 10 CFR 707.4, will be conducted by the employer and a background investigation by the Federal government may be required to obtain an access authorization prior to employment, and that subsequent reinvestigations may be required. If the position is covered by the Counterintelligence Evaluation Program regulations at 10 CFR 709, the announcement should also alert applicants that successful completion of a counterintelligence evaluation may include a counterintelligence-scope polygraph examination.

(l) Flow down to subcontracts. The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph, in all subcontracts under its contract that will require Subcontractor employees to possess access authorizations. Additionally, the Contractor must require such Subcontractors to have an existing DOD or DOE facility clearance or submit a completed SF 328, Certificate Pertaining to Foreign Interests, as required in DEAR 952.204-73, Facility Clearance, and obtain a foreign ownership, control and influence determination and facility clearance prior to award of a subcontract. Information to be provided by a Subcontractor pursuant to this clause may be submitted directly to the Contracting Officer. For purposes of this clause, Subcontractor means any Subcontractor at any tier and the term "Contracting Officer" means the DOE Contracting Officer. When this clause is included in a subcontract, the term "Contractor" shall mean Subcontractor and the term "contract" shall mean subcontract.

2) The following clauses are incorporated by reference:

**FAR 52.222-54 EMPLOYMENT ELIGIBILITY VERIFICATION (Jan 2009)**

**952.223-76 CONDITIONAL PAYMENT OF FEE OR PROFIT - SAFEGUARDING RESTRICTED DATA AND OTHER CLASSIFIED INFORMATION AND PROTECTION OF WORKER SAFETY AND HEALTH (Aug 2009)**

f. SECTION J, LIST OF ATTACHMENTS:

Delete in its entirety Attachment 1, U.S. Department of Energy, National Nuclear Security Administration, Nevada Site Office Performance Work Statement for Environmental Characterization & Remediation Services, dated 21 Apr 2008 and replace with the attached document with same name but dated 15 Sept 2009. The new document is changed solely to incorporate the revised Section 3.0 SPECIFIC REQUIREMENTS, and to change the document date.

Delete in its entirety Attachment 5, List of Applicable Directives, dated 21 Apr 2008, and replace with the attached List of Applicable DOE and NNSA/Nevada Site Office (NSO) Directives dated 15 Sept 2009.

5. All other terms and conditions remain unchanged as a result of this modification.

LIST OF ATTACHMENTS

<u>DOCUMENT</u>	<u>PGS</u>	<u>DATE</u>	<u>TITLE</u>
ATTACHMENT 1	23	15 SEP 2009	U.S. DEPARTMENT OF ENERGY, NATIONAL NUCLEAR SECURITY ADMINISTRATION, NEVADA SITE OFFICE PERFORMANCE WORK STATEMENT FOR ENVIRONMENTAL CHARACTERIZATION & REMEDIATION SERVICES
ATTACHMENT 5	3	15 SEP 2009	LIST OF APPLICABLE DOE AND NNSA/NEVADA SITE OFFICE (NSO) DIRECTIVES

**U.S. Department of Energy  
National Nuclear Security Administration  
Nevada Site Office  
Performance Work Statement  
For  
Environmental Characterization and Remediation Services  
15 September 2009**

**1.0 INTRODUCTION**

- 1.1 Background:** The primary mission of the National Nuclear Security Administration Nevada Site Office (NSO) has been to conduct testing of nuclear and conventional explosives in conjunction with the research and development of nuclear tests. Most of the field testing was done at the Nevada Test Site (NTS) and included approximately 828 underground test sites, and 100 atmospheric test locations. In addition to radioisotopes associated with the tests, other contaminants included oils, solvents, gasoline, heavy metals such as lead, and unexploded ordnance. Approximately 1,375 square miles in size, the site is larger than the State of Rhode Island and is one of the largest restricted access areas in the nation. Field testing was also conducted on the Tonopah Test Range (TTR), and the Nevada Test and Training Range (NTTR), formerly the Nellis Air Force Range, adjacent to the NTS.

The Environmental Management (EM) Program was established in 1989 at Department of Energy (DOE) offices around the country to address the environmental impacts associated with more than 50 years of nuclear weapons production in the United States. The NSO EM program encompasses environmental restoration and waste management activities that have resulted from the historic NSO nuclear testing mission. NSO environmental restoration activities fall under the purview of the NSO Environmental Restoration Project (ERP). Originally the ERP consisted of four Sub-Projects, including Industrial Sites, Underground Test Area (UGTA), Soils, and Offsite Sub-Projects. On October 1, 2006 responsibility for the Offsite Sub-Project was transferred to the DOE Office of Legacy Management (LM). The Contractor will not be responsible for performance of the Offsite Sub-Project. Waste management activities fall under the purview of the NSO Waste Management Project (WMP). Planning and Project Control and Public Involvement functions fall under the purview of the EM Program Support Group (PSG).

- 1.2 Summary of Contract Characteristics:** This is a Cost Plus Award Fee contract with Performance Incentive Fee. The work effort under this contract will be evaluated on a performance-based basis. Actual performance incentives will be determined on a fiscal year basis in accordance with Section H, Clause H002 and Performance-Based Fee Plan, Section J, Attachment 4.
- 1.3 Place of Performance:** The Contractor shall perform environmental characterization and remediation services at designated Corrective Action Sites (CASs), or Corrective Action Units (CAUs) at the NTS, TTR, and parts of the NTTR.
- 1.4 Performance Requirements:** Each requirement for every work assignment will contain the following three elements. In each case, when taken together, these elements constitute a performance requirement.

- Performance Objectives - A statement of the outcome or results expected in a specific work assignment. (These objectives will be identified in the contract for each work assignment).
- Performance Measures - The critical few characteristics or aspects of achieving the objective that will be monitored by the Government, e.g. those things that the Government will be gathering data about. Each objective may have one or more measures. (These measures will be dependent on the actual work assignments issued by the Federal Sub-Project Directors. The contract will identify a list of measures from which the Federal Sub-Project Directors will select one or more measures for the specific work assignment that are issued).
- Performance Expectations - The targeted level or range of levels of performance for each performance measure. The Federal Sub-Project Directors will identify the expectations for each measure and incorporate them into the specific work assignment.

## 2.0 SCOPE OF WORK

- 2.1 Requirement:** The Scope of Work requirement includes; program management support, site characterization and assessment, field services, remedial action, and public involvement activities. The Contractor shall comply with the Federal Facility Agreement and Consent Order (FFACO) between DOE/EM, the State of Nevada, the Department of Defense, Defense Nuclear Agency (now the Defense Threat Reduction Agency (DTRA)), and DOE/LM. The Contractor shall provide all personnel, materials, and supplies, required to perform under this contract.
- 2.2 Requirement Documents:** The Contractor shall comply with the documents identified in Section J, Attachment 5. Additionally, services and products shall comply with all applicable federal, state, and local laws, regulations, guidance and policies, which become effective after the effective date of this contract.

## 3.0 SPECIFIC REQUIREMENTS

The Contractor shall perform the following activities:

### **GFY2010**

#### **Underground Test Area Sub-Project**

Complete Frenchman Flat Monitoring Well Network Design  
 Complete Frenchman Flat Model external peer review  
 Begin Pahute Mesa Well Development and Testing  
 Complete Frenchman Flat Model Documentation  
 Complete Frenchman Flat Risk Analysis  
 Complete Yucca Flat Transport Model A/E  
 Complete Rainier Mesa Source Term A/E  
 Complete Rainier Mesa Flow and Transport Model A/E

#### **Soils Sub-Project**

Begin Pu Valley CAIP  
 Complete Pu Valley CAIP  
 Complete Johnnie Boy Crater and Pin Stripe CADD

Begin Area 20 Cabriole/Palanquin Unit Craters CADD  
Complete Frenchman Flat CAIP  
Begin Frenchman Flat CADD  
Complete Sedan CAIP  
Begin Sedan CADD  
Complete Schooner CAIP  
Begin Schooner CADD  
Complete Buggy CAIP

**Industrial Sites Sub-Project**

Begin EMAD CR-Fieldwork (includes only outside and subsurface)  
Complete Contaminated Waste Sites, CAU 547, SAFER  
Complete the Preliminary Assessment on the Area 25/26 Railroad Tracks  
Begin CR for CAU 408  
Complete CAU 544 Mudpits SAFER  
Start CAU 544 Mudpits CR  
Begin CAU 561 CADD  
Complete CAU 562 CADD  
Complete CAU 560 CADD/CR

**GFY2011**

**Underground Test Area Sub-Project**

Complete Frenchman Flat CADD/CAP  
Begin Pahute Mesa Phase II Geology A/E  
Complete Rainier Mesa Source Term Report  
Complete Pahute Mesa Drilling (ER-EC-16)

**Soils Sub-Project**

Complete Area 20 Cabriole/Palanquin Unit Craters CADD  
Start Pu Valley CADD  
Complete Frenchman Flat CADD  
Complete Sedan CADD  
Complete Schooner CADD  
Complete Buggy CADD

**Industrial Sites Sub-Project**

Begin EMAD CR-Fieldwork (includes only outside and subsurface)  
Complete CR for CAU 408  
Complete CAU 544 Mudpits Closure  
Complete CAU 561 CADD  
Start CAU 539 SAFER

**GFY2012**

**Underground Test Area Sub-Project**

Begin Frenchman Flat Monitoring Well Installation  
Complete Pahute Mesa Drilling Program  
Complete Pahute Mesa Well Development and Testing  
Complete Pahute Mesa Geology Phase II A/E  
Start Yucca Flat CAIP Addendum  
Complete Yucca Flat Transport Model  
Start Yucca Flat Phase II drilling Program

Complete Rainier Mesa Flow and Transport Model

**Soils Sub-Project**

Complete Pu Valley CADD  
Complete South Yucca Flat CAIP  
Begin South Yucca Flat CADD

**Industrial Sites Sub-Project**

Complete CAU 539 SAFER

**GFY2013**

**Underground Test Area Sub-Project**

Complete Frenchman Flat Monitoring Well Installation  
Begin Frenchman Flat WDT  
Begin WPM tracer test  
Complete Pahute Mesa Geology Report  
Start Pahute Mesa Hydrology/Transport Parameter A/E  
Complete Yucca Flat CAIP Addendum  
Start Yucca Flat WDT Program  
Complete Rainier Mesa CAIP Addendum

**Soils Sub-Project**

Complete North Yucca Flat CAIP  
Begin North Yucca Flat CADD

**GFY2014**

**Underground Test Area Sub-Project**

Complete Frenchman Flat Monitoring Well Development and Testing  
Complete Frenchman Flat CR  
Complete Pahute Mesa Hydrology and Transport Parameter Report  
Start Pahute Mesa Hydrology and Transport Parameter  
Start Pahute Mesa Source Term A/E  
Start Pahute Mesa Flow and Transport Model A/E  
Complete Rainier Mesa Drilling Program  
Begin Rainier Mesa WDT Program  
Start Frenchman Flat LTSM Sampling and Report

**Soils Sub-Project**

Complete South Yucca Flat CADD  
Complete North Yucca Flat CADD  
Complete Hydronuclear CAIP  
Begin Hydronuclear CADD  
Complete Small Boy CAIP  
Begin Small Boy CADD

- 3.1 Site Characterization, Assessment and Remediation:** The Contractor shall prepare assessment/characterization studies for all Sub-Projects and perform Streamlined Approach for Environmental Restoration (SAFER) activities for NNSA/NSO selected CAUs for the Soils and Industrial Sites Sub-Projects. The contractor shall perform all activities and documentation required for the assessment/characterization and SAFER activities, including, but not limited to the following: planning, technical studies,

hazardous material handling, waste management, waste disposal, and field coordination. The contractor shall prepare Site Specific Health and Safety Plans (SSHASPs), Real Estate Operations Permits (REOPs), and Quality Assurance Project Plans (QAPPs).

**3.1.1 Corrective Action Sites (CAS) and Corrective Action Units (CAUs):** The Contractor shall prepare draft and/or final documents to assess/characterize CAUs to adequately determine the extent, nature, and concentration of contamination to support assessment/characterization studies. In addition, the Contractor shall identify and provide a rationale for the selection of a recommended corrective action alternative for each CAS. The Contractor shall prepare Corrective Action Investigation Plans (CAIPs), Corrective Action Decision Documents (CADDs), Closure Reports (CRs), CADD/CRs, and SAFER plans. These reports shall include, as applicable: historical data and site descriptions; geophysical investigations; data quality objectives (DQOs); SSHASPs; QAPPs; number, types, and location of sampling sites for multi-media, statistically determined to reduce decision error; analytical requirements; and waste management plans.

**3.1.1.1** The Contractor shall prepare permit documentation for CAUs.

**3.1.1.2** The Contractor shall determine for each CAS and/or each CAU, as appropriate, the physiography, geology, and hydrology; define the nature, extent, and volume of any contamination, including their physical, chemical, and radiological constituents, as well as their concentration in affected soil or groundwater.

**3.1.1.3** The Contractor shall perform data integration activities necessary to describe: 1) the physical characteristics of each CAS and/or CAU, 2) the nature and extent of contamination, and 3) the contaminant data and transport mechanism. Data integration activities shall include the review of all existing literature applicable to assessment/characterization and SAFER activities.

**3.1.1.4** The Contractor shall design and implement a groundwater assessment/characterization program leading to the development of a hydrologic model for the underground test area (UGTA) CAUs based on existing and new data obtained through characterization activities.

**3.1.1.5** The Contractor shall verify and document for NSO EM approval the planned assessment/characterization and SAFER activities are in compliance with applicable environmental laws and regulations.

**3.1.1.6** The Contractor shall complete SAFER projects as determined by NSO.

**3.1.1.7** The Contractor shall manage all solid, hazardous, radioactive, and mixed waste generated by assessment/characterization and SAFER activities prior to its ultimate treatment, storage, and/or disposal.

**3.1.1.8** The Contractor shall provide planning and management services for the identification, grouping, and prioritization of CASs and CAUs.

## 3.1.2 Sub-Projects

### 3.1.2.1 Soils

**3.1.2.1.1 Background:** Nuclear testing activities conducted at the NTS, TTR, and NTTR produced radionuclide contamination of near surface soils. The DOE NSO Environmental Restoration Soils Sub-Project objective is to characterize near surface soil contamination sites and perform corrective actions, where it is cost effective and there is a significant reduction in risk to human health and the environment. Activities for the Soils Sub-Project are required by the implementation of the FFACO Technical Strategy and are predicated on establishing site-specific Corrective Action Levels (CALs).

The Soils Sub-Project CAUs are divided into five groups, which parallel the categories presented in the FFACO:

1. Storage-Transportation Tests: GMX, Plutonium Valley, Project 57, Double Tracks, and Clean Slate Sites 1, 2, and 3.
2. Cratering Experiments: NTS Areas 10, 18, 20, and 30. (Sedan, Johnnie Boy, Danny Boy, Cabriolet/Palanquin, Schooner, and Buggy respectively)
3. Atmospheric Tests: South Yucca Flat (Areas 1, 3, 4, and 7), North Yucca Flat (Areas 2, 8, 9, and 10), Frenchman Flat (Area 5 and 11), Buckboard Mesa (Area 18) and Small Boy. This grouping also includes small restricted areas of contamination produced by unplanned venting of subsurface tests.
4. Hydronuclear Experiments: Hydronuclear Tests.
5. Nuclear Rocket Engine Experiments: Nuclear Rocket Engines (This CAU includes surface soil contamination not addressed by the Industrial Sites Sub-Project.)

The objective of the Soils Sub-Project is to reduce the risk to human health and the environment through implementation of a cost-effective corrective action strategy. This strategy encompasses CAU characterization, assessment, corrective action evaluation, and corrective action implementation.

For the Soil Sub-Project sites, where it is cost effective and there is a significant reduction in risk to human health and the environment, corrective actions will be performed. For the Soil Sub-Project sites, where it is not cost effective and a significant reduction in risk to human health and the environment cannot be achieved, corrective actions are not

anticipated. For the Soils Sub-Project sites within designated future testing areas, corrective actions are not anticipated. The future testing area sites are defined in the Nevada Test Site Environmental Impact Statement (EIS) and Nevada Test Site Resource Management Plan (RMP).

For each Soil Sub-Project CAU, a site-specific CAL will be established that allows for release of the CAUs in accordance with agreed upon designated land uses that are in accordance with the Nevada Test Site EIS and RMP. The CAL is based on a dose criterion of 25 millirem per year (mrem/yr) and concurrence with identified decision makers on future land use scenarios, dose calculation methodology, and dose calculation input parameters. The CAL is required by DOE Orders to have an as-low-as-reasonably-achievable (ALARA) analysis performed. Fieldwork is performed as authorized by NSO applicable directives, including the REOPs.

**3.1.2.1.2 Corrective Action Investigation Plan (CAIP):** The Contractor shall prepare a CAIP that includes: a historical literature review and historic evaluation, a description of the data quality objectives (DQOs), preliminary risk (dose) assessment (if applicable), and site characterization scope of work. NEPA mandated Environmental Assessment (EA) documentation is not required because remaining uncharacterized Soils Project CAUs are included in the Environmental Impact Analysis and Record of Decision for the NTS EIS. The Contractor is responsible for document production, reproduction, and distribution of a draft CAIP for NSO, NDEP, and contractor review. The Contractor shall ensure each CAIP conforms to the approved Standardized Outline. The Contractor shall resolve NSO and other contractor comments by providing a response to comments using a document review sheet form. Nevada Department of Environmental Protection (NDEP) comments shall be addressed by the Contractor and a copy of the document review sheet shall be included as an appendix in the final CAIP document for review by NSO and NDEP. After NDEP approval, the contractor shall prepare a Portable Document Format (PDF) conversion and submit the final CAIP to the DOE Office of Scientific and Technical Information (OSTI) and the Public Reading Facilities identified in the FFAO (PRFs).

For Soils Sub-Project CAUs with areas of contamination greater 20 hectares, the Management and Operating (M&O) contractor will use an aerial-based detection system to establish the horizontal extent of contamination. A ground-based detector platform is also used by the M&O contractor, when appropriate, to determine the depth of contamination, isotopic ratios, and to verify that hot spots do not exist that

may bias the aerial and ground-based detector system results. For Soils Sub-Project CAUs with areas of contamination less than 20 hectares, only ground-based detector systems are utilized by the M&O contractor. After in situ radiological surveys are completed, the contractor shall conduct soil sampling to further characterize the Ground Zero and suspected burial areas, as required.

**3.1.2.1.3 Corrective Action Decision Document (CADD)/Closure Report (CR):** The contractor shall prepare a CADD/CR that discusses the scope and substance of activities used to identify, evaluate, and recommend why no further corrective action is necessary; how and why any required use restrictions will be applied; and basis for implemented closure activities, including such actions as long-term surveillance and monitoring, as part of a post-closure monitoring program. The CADD/CR shall include a corrective action investigation summary including a discussion of results, justification for no further corrective action, a data assessment, a risk assessment, if applicable and a summary of closure activities. CADD/CR document preparation activities include: obtain peer reviews (as identified by NSO) and perform technical editing of the document; provide document production, reproduction, and distribution of a draft CADD/CR for NSO, NDEP, and contractor review; provide technical support during the review period; address and resolve NSO, NDEP, and contractor review comments and prepare document review sheets; revise the draft document based on review comments and publish a final document for NSO and NDEP review. The contractor shall research and resolve any comments and prepare a comment response form. NDEP comments shall be addressed within the final document and a copy of the document review sheet shall be issued as an appendix. After NDEP approval, the contractor shall prepare a PDF conversion and submit the final CADD/CR to OSTI and the PRFs.

### **3.1.2.2 Underground Test Area (UGTA)**

**3.1.2.2.1 Background:** The scope of the UGTA Sub-Project is to define the site-specific hydrologic boundaries encompassing groundwater resources on the NTS and at off-site locations that may be unsafe for domestic or municipal use and to perform data analysis and modeling activities to allow informed decisions that ensure risk to public health and the environment posed by impacted groundwater are, and will remain, within protective levels.

Work scope activities for a CAU are driven by the implementation of the FFACO technical strategy. CAU specific modeling is required to determine the location of the contaminant boundary and design the corrective action

monitoring well system. These activities provide the complete basis for a CADD for regulatory approval. Corrective action involves the completion of the closure activity recommended in the CADD. Compliance with the closure criteria leads to a CR and notice of completion from NDEP. All UGTA CAUs have Nevada Department of Environmental Protection (NDEP) approved CAIPs in place, but may require Addendums. Work required as part of the development of the CAIPs included performing a preliminary analysis of existing data; developing data quality objectives and identification of activities necessary to meet CAI objectives. All CAIPs were consistent with agreed upon outlines developed by NSO and NDEP.

#### **3.1.2.2.2 Correction Action Investigation Plan (CAIP):**

DOE developed and prepared CAIP for all CAUs within the UGTA Subproject. The CAIP was prepared in accordance with the FFAO and Data DQO process. The CAIP met the informational requirements of the "Annotated Outline for UGTA Corrective Action Investigation Plan which included a description of the CAU, a summary of the DQO process results, the proposed Corrective Action Investigation (CAI), and a description of and rationale for any planned field investigations.

The CAI provides the plans for the conduct of the investigation that will be carried out, and the details of field investigations and data collection and data analysis activities identified as necessary to better model the physical system. The CAU-scale flow and contaminant transport modeling will also be planned and developed in the CAI, including the modeling steps, flow and transport code selection, and flow model calibration and verification.

During the development of the CAIP, DOE met with NDEP. NDEP was then given the opportunity to review the draft version of the CAIP and identify any deficiencies. Field investigations, data collections, and analyses identified during the development of the CAIP as part of the CAI were not initiated without NDEP approval.

DOE evaluated new and existing data to determine if the data set allowed for the development of an acceptable flow and contaminant transport model, and provided the data evaluation results to NDEP.

After DOE completed its evaluation of existing and new data, and after NDEP reviewed the information that was provided by DOE, it was determined that the data are not adequate to develop a contaminant boundary, however it was determined that the strategy is achievable, and a second phase of the CAI,

“Phase II,” will require DOE to develop and prepare an addendum to the CAIP and collect additional data.

The CAIP addendum will address the identified data needs, how these data needs are translated to requirements, and what additional work activities will be conducted that are expected to address and/or satisfy these requirements.

Due to the need for additional data acquisition, the Contractor shall prepare CAIP Addendums. The Contractor shall prepare a CAIP Addendum which conforms to the approved Standardized Outline. The Contractor, with technical assistance from project participants, as needed, shall answer questions and provide technical support during NDEP's review of the CAIP Addendum; prepare a formal NDEP comment response document; provide support during comment resolution; and revise the CAIP Addendum following comment resolution. After NDEP approval, the Contractor shall prepare a PDF conversion and submit to OSTI and the PRFs. The CAIP Addendum shall describe additional data analysis and modeling activities, as well as, any new data collection activities required to further reduce uncertainty in the determination of a contaminant boundary. NSO will convene an expert panel, which includes a representative from NSO and a representative from each contractor supporting the sub-project, to evaluate reduction of uncertainty associated with data acquisition alternatives and compare results with costs to acquire data. The Contractor shall prepare a report documenting the process and results. Data are acquired through field and laboratory studies to supplement significant data gaps determined as a result of initial data analysis and modeling activities. The Contractor's data analysis shall include assembly, interpreting, and documenting existing and newly acquired data pertinent to the development and completion of the CAU flow and transport models. The data analysis volumes shall serve as a primary reference to the CAU modeling effort. The Contractor shall develop the CAU-specific risk-based contaminant boundary based upon the development and verification of a flow and transport model.

**3.1.2.2.3 Corrective Action Decision Document (CADD):** The Contractor shall prepare the CADD. The scope of the CADD involves determination of the contaminant boundary location and the design of a monitoring well system, including selection of monitoring parameters and developing the performance criteria for the monitoring network. Computer modeling predictions shall be the primary basis for determining the location of contaminant boundary and designing the monitoring well network. The Contractor shall summarize the results of the corrective action investigation in the CADD and shall specify the recommended corrective action alternative.

The CADD shall be consistent with FFAO requirements and is reviewed and approved by the NSO and NDEP. The CADD shall be prepared following the UGTA-specific outline agreed upon by the State of Nevada and the DOE. The CADD shall include documentation on the CAI process and results; a discussion on the rationale for selection of monitoring parameters; development of performance criteria; design of a CAU specific monitoring network; and discussion of the plan for the five year monitoring program (Proof of Concept). The Contractor shall research and resolve any comments and prepare a comment response form. NDEP comments shall be addressed within the final document and a copy of the document review sheet shall be issued as an appendix. After NDEP approval, the Contractor shall prepare a PDF conversion and submit the final CADD to OSTI and the PRFs.

**3.1.2.2.4 Corrective Action Plan (CAP):** The M&O contractor will prepare the CAP which will be derived from the CADD and will contain details on the implementation of the corrective action proposed for the CAU. The Contractor shall provide technical support to the M&O contractor during the preparation of the CAP. This technical support shall include responding to information calls, contributing to the sections describing the implementation of the selected corrective action, reviewing information prepared by the M&O contractor, and preparing other materials for inclusion in the draft CAP. Once the draft CAP is completed, activities performed by the Contractor shall include reviewing the draft CAP, preparing formal comments, and providing support to NSO and the M&O contractor during the DOE review phase of the CAP. The M&O contractor will lead the DOE review of the draft CAP. The Contractor shall conduct a technical review of the draft CAP commensurate with their technical oversight role. The review shall be detailed to ensure that the CAP is consistent with the CADD and the proposed corrective action. Review comments shall be recorded on DOE document review sheets (DRSS).

The main product of this effort is a set of formal comments that the Contractor shall deliver to the M&O contractor at the end of the review period. The Contractor shall support the M&O contractor in answering reviewer's questions on an as-needed basis. Once internal review of the draft CAP has been completed, the M&O contractor will submit the CAP to NDEP for review. The M&O contractor will lead the NDEP review of the CAP. The Contractor shall support the M&O contractor and DOE during the review. Activities shall include providing support to NSO and the M&O contractor during the review phase of the document by answering NDEP questions or fulfilling information calls, and preparing and/or reviewing comment responses. After NDEP approval, the M&O

contractor will prepare a PDF conversion and submit the final CAP to OSTI and PRFs.

### 3.1.2.2.5 Field Activities

**3.1.2.2.5.1 Well Drilling Program:** The UGTA well drilling program involves several contractors with various responsibilities. During well drilling and completion, the Contractor shall provide, at a minimum, the following:

- Provide on-site technical and scientific support for well design and construction, drilling operations, and geological and geophysical interpretation.
- Document and report well-site activities on a 24-hour basis as they relate to drilling, well construction, and technical and science-related operations.
- Provide specific detailed monitoring information for each well to satisfy fluid management requirements. Fluid management monitoring shall include analysis of tritium and lead in make-up water and discharge fluids.
- Provide water quality monitoring information for each well to determine the nature and chemistry of the groundwater. Water quality monitoring parameters shall consist of pH, conductivity, and temperature. Additional monitoring shall be required on a well-specific basis.
- Monitor and maintain the introduction of groundwater tracers to determine groundwater production during drilling.
- Collect geologic samples (e.g., rock cuttings and/or core) and prepare detailed descriptions.
- Collect, process, and submit fluid management, well discharge, and groundwater samples for off-site analysis.
- Provide waste management oversight for the appropriate handling of waste and/or hazardous materials.
- Manage investigation-derived waste (IDW) in accordance with plans and procedures.
- Obtain water-level measurements from boreholes and constructed wells.
- Document the volumes and nature of drilling fluids used in downhole applications per the Fluid Management Plan (FMP).

- Monitor and document the volumes of fluids and solids produced as effluent from drilling operations.
- Collect swipe samples and analyze for tritium using a liquid scintillation instrument, or equivalent, to support “unrestricted release” of material (e.g., samples and equipment).
- Collect and document various drilling parameters.
- Provide environmental and regulatory support for fluid management, analysis, and approval of process material.

**3.1.2.2.5.2 Well Development and Testing:** During well development and testing the Contractor is responsible for implementing project plans and policies and coordinating with NSO representatives and other participating contractors. The Contractor is responsible for defining the scope of work and designating the necessary resources to complete the work; shall serve as the primary point-of-contact for resolution of technical, resource, and scheduling issues; is responsible for overall supervision of field operations, ensuring that work is performed according to plans, procedures, and quality control protocols; shall review work practices, analyze hazards, implement mitigating controls, and perform safety inspections ensuring commitment to Integrated Safety Management System (ISMS) principles; is responsible for assessing environmental compliance practices and coordinating waste management activities; and is responsible for performing surveillances on field activities to ensure adherence to plans and procedures.

### 3.1.2.3 Industrial Sites

**3.1.2.3.1 Background:** CASs located on the NTS and TTR where activities were conducted that supported nuclear testing activities are grouped as Industrial Sites. Industrial Site CASs is grouped into CAUs based on four criteria: (1) responsible party (2) site function, (3) geographic location, and (4) length of time needed to complete the action. CASs are first be assigned to CAUs based on the agency responsible for the investigation and/or corrective action. CASs is then grouped by function when they shared similar technical issues and waste types. CASs with similar functions are grouped geographically with other CASs to facilitate corrective actions.

Finally, CASs are grouped into CAUs according to the length of time needed to complete the corrective actions.

Corrective actions for Industrial Site CAUs will range from no action to clean closure. The types of corrective actions may be as simple as small, isolated housekeeping site source removals to large-scale, multi-faceted projects addressing shallow groundwater and subsurface soil contamination. To further define the corrective actions for the wide range of Industrial Sites, the overall corrective action process has been subdivided into three possible process flowpaths:

(1) the housekeeping process, (2) the SAFER process, and (3) the complex process. Decisions to use specific processes are based on the complexity of the CAS conditions and the possibilities of choosing corrective action alternatives before investigations are complete.

The preparation of plans and their contents will correspond with the complexity of each CAU and the chosen corrective action process. If appropriate, each CAU will have a CAIP. The CAIP will contain or reference all necessary management and technical information. Optional CAU work plans may be written and referenced if information applies to all CASs in a CAU, or if CAUs are sufficiently similar to facilitate the use of common information.

CADDs, CAPs, and CRs will be prepared, as necessary, to guide and document corrective action decisions and activities. If sufficient information exists at a particular CAU to plan the corrective actions prior to completion of the investigation, a SAFER Plan may be prepared. This plan will contain all the necessary elements usually found in CAIPs, CADDs, and CAPs.

**3.1.2.3.2 Corrective Action Investigation Plan:** The Contractor shall ensure each CAIP includes: historical knowledge about the site and operations; DQOs; peer reviews and technical editing of the document. The Contractor is responsible for document production, reproduction, and distribution of a draft CAIP for NSO, NDEP, and contractor review. The Contractor shall ensure each CAIP conforms to the approved Standardized Outline. The Contractor shall research and resolve any comments and prepare a comment response form. NDEP comments shall be addressed within the final document and a copy of the document review sheet shall be issued as an appendix. After NDEP approval, the Contractor shall prepare a PDF conversion and submit the final CAIP to OSTI and the PRFs.

**3.1.2.3.3 Corrective Action Decision Document (CADD):** Activities performed by the Contractor shall include CAI; analytical work; waste management and disposal; and CADD preparation.

**3.1.2.3.3.1 Corrective Action Investigation:** Plan and perform the field investigation. Specifically, the effort includes the following activities: perform required NEPA activities; prepare a SSHASP to guide all planned field operations; prepare a sampling instruction set to provide specific direction to the sampling crew with respect to procedures used for all aspects of sampling, decontamination, sample packaging, and shipping; prepare a REOP and a FMP to identify key personnel for the field activities; provide all necessary services and logistical support for the field effort; assemble the field crew; conduct a readiness review; and otherwise prepare for the effort. A “pre-field” briefing shall be held and the field crew shall mobilize to the project site, perform the field investigation as specified in the CAIP, and demobilize from the site.

**3.1.2.3.3.2 Analytical Work:** Perform chemical, radiological, and physical parameter analyses on samples acquired during field operations, as required by the CAIP. Full analytical data packages shall be obtained for characterization samples. All samples shall undergo Tier I and II data validation and five percent of the samples shall be submitted to an off-site laboratory for Tier III data validation. Support activities shall include laboratory coordination, data tracking and assessment, and posting analytical results in the Common Data Repository (CDR).

**3.1.2.3.3.3 Waste Management and Disposal:** Provide waste management services for all site Investigation Derived Waste (IDW) generated during the field investigation, to include periodic inspections. Waste records and manifests shall be prepared and maintained with copies provided to the M&O contractor. A waste characterization profile is completed to determine the appropriate waste classification. For radioactive waste, a waste profile is prepared demonstrating compliance with the NTS waste acceptance criteria (NTSWAC) for Radiological Waste Acceptance Plan (RWAP) approval. Disposal services shall be provided for all non-hazardous

and hazardous waste generated at TTR. Radioactive waste, and all NTS-generated waste, shall be disposed in coordination with the M&O contractor's Waste Management Division.

#### **3.1.2.3.3.4 Corrective Action Decision Document**

**Preparation (CADD):** Prepare a CADD that consists of a corrective measures study, and an investigation report as an appendix that presents the data collected in the field. Preparation activities include: perform peer reviews and technical editing of the document; provide document production, reproduction, and distribution of a draft CADD for NSO, NDEP, and contractor review; provide technical support during the review period; address and resolve NSO, NDEP, and contractor review comments and prepare document review sheet; revise the draft document based on review comments and publish a final document for NSO and NDEP review. The Contractor shall ensure each CADD conforms to the approved Standardized Outline. The Contractor shall research and resolve any comments and prepare a document review sheet. NDEP comments shall be addressed within the final document and a copy of the document review sheet shall be issued as an appendix. After NDEP approval, the Contractor shall prepare a PDF conversion and submit it the final CADD to OSTI and the PRFs.

#### **3.1.2.3.4 Streamlined Approach For Environmental Restoration (SAFER):** Activities performed by the Contractor shall include preparing a SAFER Plan and conducting field work.

**3.1.2.3.4.1 SAFER Plan:** Based on Preliminary Assessment information and a site visit, limited sampling activities shall be conducted to determine the type of waste disposal required. A SAFER justification letter shall be prepared and transmitted to NSO and NDEP. A draft SAFER Plan and engineering drawings/as-built drawings shall be prepared. The SAFER Plan shall be prepared according to the Standardized Outline agreed upon by NSO and NDEP and shall incorporate the DQO process. An internal review/comment resolution activity sequence shall be conducted. The draft SAFER Plan shall be submitted to NSO and NDEP for review/comment. Comment resolution shall be completed and a final SAFER Plan shall be prepared. The final SAFER Plan shall be

transmitted to NSO and NDEP. NDEP approves final SAFER Plan and/or requires modification to the document. After NDEP approval, the Contractor shall prepare a PDF conversion and submit the final SAFER Plan to OSTI and the PRFs.

**3.1.2.3.4.2 Field Work:** Prepare a REOP, SSHASP, Work Packages, Field Management Plan (FMP), NEPA Checklist, and Radiation Work Permits (RWP), for the closure activities. If required, the Contractor is responsible for holding an ALARA meeting. Readiness Review and “pre-field” briefing shall be conducted prior to mobilization of labor and equipment to the closure site. Waste shall be characterized, stored, transported, and disposed in accordance with applicable regulations/requirements.

**3.1.2.3.5 Decontamination and Decommission (D&D) SAFER:**

Activities performed by the Contractor shall include preparing a D&D SAFER Plan and conducting D&D SAFER field work.

**3.1.2.3.5.1 D&D SAFER Plan:** The SAFER Plan and the D&D Plan will be reviewed and approved by NDEP and NSO. The SAFER Plan shall conform to the approved Standardized Outline and shall incorporate the DQO process. The following areas shall be reviewed: quality assurance, quality control, technical editing, peer review, regulatory compliance, and health and safety. Following completion of the draft document review, comment resolution shall be performed and a comment response form shall be completed. NDEP comments shall be addressed within the final document and a copy of the document review sheet shall be included in the final version of the document as an appendix. After NDEP approval, the Contractor shall prepare a PDF conversion and submit the final D&D SAFER Plan to OSTI and the PRFs.

**3.1.2.3.5.2 D&D SAFER Field Work:** D&D activities shall consist, of the following activities; decontamination of radiological impacted surfaces and the removal of radioactively impacted items, removal/disposal of hazardous materials from the building, and removal/disposable of asbestos containing material from the building.

**3.1.2.3.6 Closure Report (CR):** The Contractor shall prepare a CR to document closure activities for the CAU. Activities associated with finalizing the CR document shall include completing and recording Use Restrictions; preparing a draft CR which conforms to the approved Standardized Outline and shall include Use Restrictions and/or engineering as-built drawings. The Contractor shall distribute the draft CR to NSO, NDEP, and M&O contractor for review and shall prepare responses to comments on DRSS. The Contractor shall submit the Final CR to NSO and NDEP for approval. After NDEP approval, the Contractor shall prepare a PDF conversion and submit the final CR to OSTI and the PRFs.

## **3.2 PROGRAM SUPPORT**

The Contractor shall provide technical support to assist NSO in planning, management, and execution of the NSO EM Program. The required services include:

### **3.2.1 Project Controls (Scope, Schedule, and Cost Planning, Budgeting, Executing and Reporting)**

**3.2.1.1 Background:** The NSO EM Program life-cycle baseline is the document that identifies the scope, schedule and cost from the beginning to the end of the ERP. The baseline has been reviewed by the DOE Office of Engineering and Construction Management (OECM), and is under DOE EM configuration control. The NSO EM Program is currently in the Critical Decision (CD) 2/3 phase. The scope of the life-cycle baseline describes the structure of the Environmental Restoration's technical work and identifies the objectives to be achieved throughout the duration of the project. The life-cycle baseline schedule identifies dependencies and completion time-frames as constrained by assumed funding and resource limitations. Cost information in the baseline depicts the labor, services, and materials required to accomplish the technical scope. The life-cycle baseline provide technical, schedule, and cost details for the historical progress and planned execution of future work. The EM Program life-cycle baseline is maintained under configuration control within the NSO's Environmental Management Information System (EMIS). The EMIS supplies the primary framework for management, control, and retention of earned value management data. The functions and controls within EMIS were designed for use as an EVM compliant system. EMIS is used by NSO environmental sub-projects and contractors as the central life-cycle baseline data control and reporting system and overall EM Program data repository. Outside of EMIS, the Contractor shall maintain its own systems and software for specific baseline development purposes.

#### **3.2.1.2 Project Life Cycle Management**

The Contractor shall prepare a Project Execution Plan (PEP) and a Risk Management Plan (RMP) to establish the policies and procedures to be followed to manage and control the execution of activities required by this PWS. The Contractor shall coordinate with other contractors to integrate information into the PEP and RMP for all contracts; evaluate and recommend improvements; and update the PEP and RMP for the NSO EM Program.

The Contractor shall maintain the EM program life-cycle baseline to assist NSO EM in achieving program, project, and sub-project objectives. This shall include a full description of the scope of work for each work package, including technical and regulatory requirements; detailed schedules for the associated activities, including start and finish dates, logic diagrams, critical path analyses, associated milestones, and potential risk factors; and detailed cost estimates, including labor, hours, organizational burden, indirect, support costs, material, equipment, subcontracts, contingency, escalation, and risk factors. The Contractor shall coordinate with the other contractors supporting the EM Program to consolidate data for all project activities and contracts into the Environmental Management Information System (EMIS) in accordance with DOE direction and evaluate and reconcile the data to ensure quality and accuracy of deliverables.

The Contractor shall process, integrate, track, analyze, and report data for the entire ERP concerning the following areas: project management, project control, life-cycle planning, performance measurement, budget formulation and execution, and financial management.

The Contractor shall prepare annual work authorization documentation to assist NSO in achieving EM objectives. The Contractor shall track and report (including EMIS updates) obligations and costs by individual funding source, and provide support to NSO to ensure that obligations and costs do not exceed available funding levels.

The Contractor shall develop a Performance Baseline (PB) for the activities required by this PWS. The Contractor shall support NSO in integrating PB information from all ERP contracts into the EMIS. The Contractor shall evaluate and recommend improvements, and review, revise, and finalize the EMIS baseline.

The Contractor shall support NSO in planning and managing the Critical Decision (CD) approval process to ensure that the form and content of all documents and actions required for CD approval meet the NSO requirements. The Contractor shall coordinate with other contractors to ensure all requirements for approval are met. The Contractor shall support NSO in integrating and consolidating information and documents to represent the total EM Program. The Contractor shall compile the package, presentation, and any other materials needed to obtain CD approval.

### **3.2.1.3 Earned Value Management**

The Contractor shall comply with applicable Earned Value Management System (EVMS) requirements including the American National Standards Institute (ANSI) EVMS standard (ANSI/EIA-748-1998).

The Contractor shall prepare, process, and implement scope, cost, schedule, and technical change control for life-cycle and execution year baselines.

### **3.2.2 Program Integration**

The Contractor shall prepare regulatory agreement, performance measurement, and progress tracking reports to assist NSO in tracking and measuring progress towards meeting established baselines and milestones.

The Contractor shall prepare comprehensive program, project management, health and safety, quality assurance plans, and required NEPA documentation.

The Contractor shall participate in meetings, conference calls, conferences, and other similar forums relating to program integration responsibilities and shall be available to respond to informal NSO requests for information related to Integrated Project Management.

The Contractor shall provide consolidated data to NSO, as requested, in the form of reports, briefing materials, planning and budgeting submittals, and data calls.

### **3.2.3 Regulatory and Policy Review**

The Contractor shall review and analyze new and current laws, regulatory requirements and policy guidance, and recommend strategy and policy alternatives to assist in managing to achieve program, project, and Sub-Project objectives. The Contractor shall provide technical support in developing, monitoring, and implementing a variety of agreements with Federal, state and local government agencies to assist in managing the NSO EM activities.

### **3.2.4 Database Management**

The Contractor shall provide database services including maintenance of existing NSO, program, and project-specific databases identified in the supporting documents. The databases contain information for the EM baselines, regulatory compliance, and technical data including geological, hydrological, geophysical, and meteorological data. Contractor shall also provide upgrades to existing databases; configuration management of data; maintenance of hardware associated with the systems; maintenance of software agreements associated with the systems; and shall purchase equipment to ensure systems remain compliant and capable of meeting program requirements.

### **3.2.5 Records Management**

The Contractor shall provide records management in accordance with appropriate regulations and applicable DOE directives. The records management activities

must be coordinated closely with the various Sub-Project activities since records are an integral part of the FFACO process. The Contractor shall manage these records through all phases of their life cycle including; creation, collection, maintenance, use, and disposition. The Contractor shall provide records management services and maintain responsibility for records in a variety of forms such as, paper, audiovisual, photographs, and electronic media.

### **3.2.6 Field Characterization/Remediation and Laboratory Analysis**

**3.2.6.1** The Contractor shall utilize the appropriate field screening techniques to aid the characterization/remediation process. The Contractor shall collect samples of sufficient quality and quantity to meet project DQOs and NSO requirements for compliance with the FFACO, and other state requirements.

**3.2.6.2** The Contractor shall validate characterization/remediation data, and verify that it meets the project data quality objectives, and NSO requirements for compliance with the FFACO, and other state requirements.

**3.2.6.3** The Contractor shall participate in the DOE Consolidated Audit Program (DOECAP) by using DOECAP audited laboratories. The Contractor shall have several laboratories on call to provide analysis for large sample volumes and specialty analyses. The Contractor shall also provide an auditor to participate on the DOECAP audit team.

### **3.2.7 Public Involvement Activities**

**3.2.7.1** The Contractor shall provide integration, coordination, support, and implementation of EM public involvement activities.

The Contractor shall develop and maintain NSO EM communication products such as the Public Involvement Plan (PIP), meeting presentations, videos, etc. The Contractor shall provide a comprehensive array of products and services in support of both internal and external communications as well as stakeholder involvement initiatives. The Contractor shall also develop a broad array of communications products tailored to meet the needs of EM projects to promote public interest in and understanding of DOE EM-related issues, including multimedia presentations, fact sheets, brochures, newsletters, videos, exhibits, posters, displays, graphics, and web-based information products.

The Contractor shall support and coordinate the EM PIP, which includes all stakeholder meetings, topic-specific public workshops, intergovernmental relations activities, and interactions with federal, state, local, and tribal government entities, oversight groups, regulatory agencies, public interest groups, the Nevada business community, other stakeholders and the public. The Contractor shall support community outreach initiatives, which features environmentally-focused informational products at a wide variety of community events throughout the State of Nevada.

The Contractor shall also be responsible for coordinating photo and video documentation of field programs and activities for use in the development of products. Additionally, the Contractor shall assist NSO in preparing briefings and communications materials for both internal and external audiences.

### **3.3 TRAVEL**

The Contractor may be required to travel by Government provided transportation.

### **4.0 REPORTS, DATA, AND OTHER DELIVERABLES**

The Contractor shall prepare and submit reports in accordance with Reporting Requirements Checklist in Section J, Attachment 2.

## ACRONYMS

ALARA	As-Low-As Reasonably Achievable
CADD	Corrective Action Decision Document
CAIP	Corrective Action Investigation Plan
CALs	Corrective Action Levels
CAP	Corrective Action Plan
CAS	Corrective Action Sites
CAUs	Corrective Action Units
CR	Closure Report
D&D	Decontamination and Decommission
DOE	Department of Energy
DOECAP	DOE Consolidated Audit Program
DQOs	Data Quality Objectives
DTRA	Defense Threat Reduction Agency
EA	Environmental Assessment
EIS	Environmental Impact Statement
EM	Environmental Management
EMIS	Environmental Management Information System
ERP	Environmental Restoration Project
EVMS	Earned Value Management System
FFACO	Federal Facility Agreement & Consent Order
FMP	Field Management Plan
IDW	Investigation-Derived Waste
LM	Legacy Management
M&O	Management and Operating
NDEP	Nevada Department of Environmental Protection
NEPA	National Environmental Policy Act
NSO	Nevada Site Office
NTS	Nevada Test Site
NTTR	Nevada Test & Training Range
OECM	Office of Engineering and Construction Management
OSTI	Office of Scientific & Technical Information
PB	Performance Baseline
PDF	Portable Document Format
PEP	Project Execution Plan
PIP	Public Involvement Plan
PSG	Program Support Group
PWS	Performance Work Statement
QAPPs	Quality Assurance Project Plans
REOP	Real Estate Operation Permits
RM	Resource Management Plan
RWAP	Radiological Waste Acceptance Plan
SAFER	Streamlined Approach for Environmental Restoration
SSHASPs	Site Specific Health & Safety Plans
TTR	Tonopah Test Range
UGTA	Underground Test Area
WMP	Waste Management Project

**LIST OF APPLICABLE DOE AND  
NNSA/Nevada Site Office (NSO) Directives**

<b>DIRECTIVE NUMBER</b>	<b>SUBJECT/TITLE OF DIRECTIVES</b>	<b>FLOWDOWN TO SUBCONTRACTOR (YES OR NO)</b>
10 CFR 850	Chronic Beryllium Disease Prevention Program	Y
10 CFR 851	Worker Safety and Health Program	Y
DOE M 205.1-5	Cyber Security Process Requirements Manual	N
DOE M 205.1-6	Media Sanitization Manual	N
DOE M 205.1-7	Security Controls for Unclassified Information Systems Manual	N
DOE M 205.1-8	Cyber Security Incident Management Manual	N
DOE M 231.1-1A Chg 2	Environment, Safety and Health Reporting Manual	Y
DOE M 231.1-2	Occurrence Reporting and Processing of Operations Information	Y
DOE M 435.1-1 Chg. 1	Radioactive Waste Management Manual	Y
DOE M 440.1-1A	DOE Explosives Safety Manual	Y
DOE M 442.1-1	Differing Professional Opinions Manual for Technical Issues Involving Environment, Safety and Health	Y
DOE M 450.4-1	Integrated Safety Management System Manual	Y
DOE M 460.2-1A	Radioactive Material Transportation Practices Manual	Y
DOE M 470.4-1 Chg 1	Safeguards and Security Program Planning and Management	Y
DOE M 470.4-5	Personnel Security	Y
DOE M 471.1-1 Chg. 1	Identification and Protection of Unclassified Controlled Nuclear Information Manual	N
DOE M 471.3-1	Manual for Identifying and Protecting Official Use Only Information	Y
DOE M 475.1-1B	Manual for Identifying Classified Information	Y
DOE N 203.1	Software Quality Assurance	N
DOE N 206.4	Personal Identity Verification	N
DOE O 1340.1B	Management of Public Communications Publications and Scientific, Technical, and Engineering Publications	Y
DOE O 151.1C	Comprehensive Emergency Management System	Y
DOE O 200.1A	Information Technology Management	N
DOE O 205.1A	Department Of Energy Cyber Security Management	N
DOE O 206.1	Department of Energy Privacy Program	N
DOE O 210.2	DOE Corporate Operating Experience Program	Y
DOE O 221.1A	Reporting Fraud, Waste and Abuse to the Office of Inspector General	Y

DIRECTIVE NUMBER	SUBJECT/TITLE OF DIRECTIVES	FLOWDOWN TO SUBCONTRACTOR (YES OR NO)
DOE O 221.2A	Cooperation with the Office of Inspector General	N
DOE O 225.1A	Accident Investigations	Y
DOE O 226.1A	Implementation of Department of Energy Oversight Policy	Y
DOE O 231.1A Chg. 1	Environment, Safety and Health Reporting	Y
DOE O 241.1A Chg. 1	Scientific and Technical Information Management	N
DOE O 243.1	Records Management Program	Y
DOE O 243.2	Vital Records	Y
DOE O 252.1	Technical Standards Program	N
DOE O 350.1 Chg 1	Contractor Human Resource Management Programs	N
DOE O 412.1A	Work Authorization System	N
DOE O 413.3A Chg. 1	Program and Project Management for the Acquisition of Capital Assets	N
DOE O 414.1C	Quality Assurance	Y
DOE O 430.1B Chg. 1	Real Property Asset Management	N
DOE O 435.1 Chg. 1	Radioactive Waste Management	Y
DOE O 442.1A	Department of Energy Employee Concerns Program	Y
DOE O 450.1A	Environmental Protection Program	Y
DOE O 460.1B	Packaging and Transportation Safety	Y
DOE O 460.2A	Departmental Materials Transportation and Packaging Management	Y
DOE O 470.2B	Independent Oversight and Performance Assurance Program	Y
DOE O 471.1A	Identification and Protection of Unclassified Controlled Nuclear Information	N
DOE O 471.3	Identifying and Protecting Official Use Only Information	Y
DOE O 475.2	Identifying Classified Information	Y
DOE O 534.1B	Accounting	N
DOE O 5400.5 Chg 2	Radiation Protection of the Public and the Environment	Y
DOE O 5480.19 Chg 2	Conduct of Operations Requirements for DOE Facilities	Y
DOE O 551.1C	Official Foreign Travel	N
DOE O 5610.2 Chg 1	Control of Weapon Data	Y
NA-1 SD 226.1A	NNSA Line Oversight and Contractor Assurance System Supplemental Directive	N
NNSA Policy Ltr NAP-14.1C	Baseline Cyber Security Requirements	N
NNSA Policy Ltr NAP-14.2C	Certification and Accreditation Process for Information Systems	N

DIRECTIVE NUMBER	SUBJECT/TITLE OF DIRECTIVES	FLOWDOWN TO SUBCONTRACTOR (YES OR NO)
NNSA Policy Ltr NAP-14.3B	Transmission of Restricted Data Over Secret Protocol Router Network (SPIRNet)	N
NSO M 151.1-1B	Comprehensive Emergency Management System Manual – Preparation of the NNSA/NSO Emergency Readiness Assurance	N
NSO M 151.1-2	Comprehensive Emergency Management System Manual Emergency Planning Hazards Surveys and Emergency Planning Hazard	N
NSO M 226.X-1A	Assessment and Oversight Manual	N
NSO M 410.X-1B	Task Plan and Change Control Process	N
NSO M 412.X-1D	Real Estate/Operations Permit	N
NSO M 412.X-2	Project Screening and Siting Approval Process	Y
NSO M 450.4-X	Integrated Safety Management	Y
NSO O 151.1A	Comprehensive Emergency Management System	Y
NSO O 251.1-1F	NNSA/NSO Directives System	N
NSO O 412.X3C	Activity Level Work Control	Y
NSO O 413.XB	Project Management Principles and Practices	N
NSO O 440.X2A	Site-Wide Lightning and Other Hazardous Weather Detection and Protection	Y
NSO O 450.XA	Nevada Test Site Access and Area Control	Y
NSO O 460.X	Hazardous Materials Notification System	Y
NSO O 470.X4	Incidents of Security Concern	Y
BOP-50.003	Establishment of a National Nuclear Security Administration (NNSA) Independent Project Review (IPR) Policy	Y
	Federal Facility Agreement and Consent Order (FFACO) - May 10, 1996, and subsequent revisions	Y
	Federal Facility Compliance Act - Consent Order (FFCAct) - March 27, 1996	Y
	RCRA Part B Permit	Y
	Mutual Consent Agreement for the Storage of Low-Level Land Disposal Restricted Mixed Waste - June 6, 1995	Y
	Memorandum of Understanding (MOU) between DOE/NSO and the DTRA, DEGM08- 98NV13478 - September 9, 2000	Y

O = Order M = Manual G = Guide P = Policy NSO = Nevada Site Office