

SECTION C
PERFORMANCE WORK STATEMENT (PWS)
FOR THE
ENVIRONMENTAL MONITORING AND D&D ACTIVITIES FOR THE
FORMER
ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC)

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INTRODUCTION

This is a performance based task order subject to the objectives, measures and expectations contained in this PWS. In support of the closure of the U.S. Department of Energy (DOE) Energy Technology Engineering Center (ETEC), this requirement is for environmental monitoring and the associated surveillance and maintenance (S&M) and project support activities to safely and economically maintain and monitor the ETEC site. This scope also includes options to prepare decontamination and demolition (D&D) works plans, process work plan approval through the California Department of Toxic Substance Control (DTSC), and complete D&D effort for each facility project.

The site is currently in a safe shutdown mode. The desired end state for the base period of the task order is to continue necessary facilities S&M, site support services, and groundwater monitoring activities to maintain the site until such time that the necessary funding and approvals are in place to perform the optional D&D effort.

GENERAL

The Contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personal services necessary to perform the work as defined in this PWS except for those items specified as Government Furnished Property (GFP) and services. The contractor shall perform to the standards in this task order.

PWS performance expectations include the following:

1. The Contractor shall provide 100% of all services and deliverables identified in this PWS in a timely, complete, effective and efficient manner.
2. The Contractor shall demonstrate commitment to quality in preparation of all deliverables required by the task order.
3. The Contractor shall adhere to and follow all applicable statues, regulations, and DOE Orders which pertain to the activities outlined in the PWS.
4. The Contractor shall ensure that personnel assigned to the task order have the skills required to obtain adequate contractor performance.
5. Contractor personnel shall conduct themselves with professionalism expected in a Government office environment in accordance with applicable DOE and federal

regulations.

The Contractor's performance will be measured for completeness, quality of work, timeliness and accuracy. Unacceptable work as designated by the Contracting Officer (CO) must be corrected by the Contractor at no additional cost to DOE. Poor performance may result in the DOE not exercising an option under this task order.

BACKGROUND

The required scope of work centers on Area IV of the Santa Susana Field Laboratory (SSFL). The SSFL, located atop a range of hills between the Simi and San Fernando Valleys, north of Los Angeles in Ventura County, California, was developed as a remote site to test rocket engines and conduct nuclear research. The majority of the SSFL is owned and operated by The Boeing Company. The SSFL is divided into four administrative areas—Area I, Area II, Area III and Area IV. A 42 acre portion of Area I and all of Area II (404 acres) are owned by the Federal Government administered by the National Aeronautics and Space Administration (NASA) and operated by The Boeing Company. Areas I and III are operated and mostly owned by The Boeing Company. Areas I and III total 785 acres. The Boeing Company also owns a contiguous buffer zone of 1143 acres to the south and a contiguous buffer zone of 182 acres to the north. The Northern Buffer Zone (NBZ) is considered the 182 acres to the north. The westernmost 290 acres of the site, known as Area IV, are owned and operated by The Boeing Company for DOE. Area IV was used primarily for research and component testing in nuclear, liquid metal and conventional development. Ninety acres of Area IV, known as ETEC, were used by DOE for liquid metal and nuclear research. Although ETEC was only a small portion of Area IV, DOE is responsible for the environmental cleanup of all of Area IV and the NBZ. ETEC presently includes DOE-owned buildings which house surplus test apparatus once used for large scale heat transfer and fluid mechanics experiments, mechanical and chemical test facilities, former radiological facilities, waste management facilities, former office buildings, and auxiliary support facilities. ETEC is surplus to the DOE's current mission and is undergoing closure. The site had numerous facilities, including some where chemical and radioactive substances were used. Contamination may exist in structures and the physical media including soils, surface and groundwater.

Currently the majority of the buildings and facilities are unused and in a safe shutdown condition. There are two Resource Conservation and Recovery Act (RCRA) permitted facilities: the Radioactive Materials Handling Facility (RMHF) and Hazardous Waste Management Facility (HWMF). The RMHF is currently used intermittently to process and package for transport low-level radioactive waste water that occasionally collects in Building 4024 underground vaults during periods of heavy rain. The HWMF is currently in a safe shutdown condition. See Appendix 3 for further details on each facility's current conditions.

In March 2003, DOE issued a Finding of No Significant Impact ("FONSI") after preparing an Environmental Assessment ("EA") for the cleanup and closure of ETEC. This decision was challenged in federal court by the Natural Resources Defense Council, the Committee to Bridge the Gap, and the City of Los Angeles.

On May 2, 2007, the U.S. District Court for the Northern District of California held that DOE must prepare an Environmental Impact Statement (“EIS”) for Area IV, and DOE was enjoined from “transferring ownership or possession, or otherwise relinquishing control over any portion of Area IV” until DOE completed the EIS and issued a Record of Decision, pursuant to the National Environmental Policy Act (“NEPA”). Completion of the EIS and Record of Decision are DOE functions and the contractor will NOT assume responsibility for these functions.

In August 2007, the California DTSC entered into a Consent Order with DOE, NASA, and Boeing under its RCRA authority. This Order (a) requires remediation of chemically contaminated soils at SSFL by 2017 or earlier and requires a cleanup remedy for groundwater to be in place by 2017 or earlier; (b) provides the option for DTSC to require more work to be conducted offsite from Area IV to assess air, soil and water contamination; and (c) requires the preparation of an Environmental Impact Report (EIR), pursuant to the California Environmental Quality Act (CEQA). In conjunction with this, DTSC requested that DOE cease all decontamination and decommissioning work until the EIS was completed. The DTSC then entered into an Administrative Order on Consent (AOC) in December 2010 that superseded the 2007 Consent Order for soils cleanup. This AOC requires the cleanup of soils by 2017. Both Orders provide the option for DTSC to require more work to be conducted offsite from Area IV to assess air, soil and water contamination; and (c) requires the preparation of an EIR, pursuant to the California Environmental Quality Act (CEQA).

A considerable volume of information can be located on the DOE ETEC public website at <http://etec.energy.gov> and the DTSC website at http://www.dtsc.ca.gov/SiteCleanup/Santa_Susana_Field_Lab/index.cfm.

SCOPE

Under the guidance and technical direction of the CO and/or the Contracting Officer's Representative (COR), and in consideration of performance expectations stated above, the Contractor shall complete the scope of work for the major program components that encompass the DOE Environmental Management (EM) operations at the ETEC site. These program components are: S&M Activities, facility maintenance and infrastructure support, environmental monitoring, and project support activities. Additionally, should a D&D option be exercised, the Contractor shall prepare D&D work plans, process work plan approval through the California DTSC, and complete D&D effort for each facility project. Removal and remediation of contaminated soil is not included in this PWS. The work site for this task order consists of Area IV and the NBZ and the Contractor shall maintain a staff presence 40 hours a week during regular business hours Monday through Friday. The site will be closed for a holiday break nominally between Christmas and New Year's in accordance with the Boeing schedule; the Contractor will not have access to the site and is not required to be present on the site during the holiday break.

C.1 TRANSITION AND SITE ACCESS

C.1.1. TRANSITION ACTIVITIES (CLIN 00001)

To minimize any decreases in productivity and to prevent possible negative impacts on services, the Contractor shall have all necessary personnel, including key personnel for the Task Order, available during the transition period. During the transition period, the Contractor shall become familiar with performance requirements in order to commence full performance of services within 90 days from the Notice to Proceed (NTP).

1. The Contractor shall prepare a Phase-In Transition Plan to cover the transition period from Task Order NTP date to the Task Order effective date. The Phase-In Transition Plan shall be submitted in accordance with this PWS and Section J.1, Attachment J-B “Task Order Deliverables/Submittals”. The Phase-In Transition Plan shall provide sufficient detail for all transition activities, including but not limited to: a description of all necessary transition activities, a schedule for orderly assumption of task order responsibilities, coverage of key functional areas during the transition period, the planned strategy for developing required documents (including permits), a brief description of all involved organizations, required utilities and other transition activities such as acquisition of necessary equipment, hiring and training of personnel, and development of required plans and procedures.

The contractor shall provide a written weekly status of transition activities to DOE. The contractor shall establish routine weekly status meetings with DOE and other organizations and contractors to review transition activities and issues. The frequency of the meetings should increase as the end of task order transition period approaches. The contractor shall coordinate directly with Boeing, DOE, and other organizations and contractors to finalize any transition agreements required to assume full responsibility.

The contractor shall conduct a joint reconciliation of the Government property inventory, including Government records and equipment, with the incumbent contractor(s) and DOE. This information shall be used to provide a property and records baseline for this task order, as well as information to closeout predecessor contracts.

The contractor shall develop and maintain its plans, procedures, programs, etc. for DOE approval in accordance with this PWS and Section J.1, Attachment J-B “Task Order Deliverables/Submittals”.

2. Facility Walkdown and Responsibility Transfer:

Throughout the transition period, the Contractor shall perform all activities to support transfer of facilities, including, but not limited to: facility walkdowns to verify current facility conditions (these walkdowns will be performed in conjunction with Boeing and DOE), updating programmatic and operational documents and procedures, and verifying to DOE that facility conditions are current prior to the facility transfer date.

The Boeing Facility Transfer Checklist shall serve as the basis by which to document the safety and regulatory status of the facilities. Any safety and health or environmental non-compliance issues identified after facility turnover are the responsibility of the Contractor. All facilities, buildings, structures, etc. (listed in Appendix 3 to this PWS) for which responsibility will be transferred to the Contractor from Boeing shall be walked down.

During the facility walkdown and responsibility transfer period and upon review of the Boeing Facility Transfer Checklist, the Contractor shall identify any material differences in the systems, facilities, fixtures, government furnished property and/or actual conditions prior to the end of the transition period. The property shall be checked against existing inventory records to verify if property has been transferred to other users, sold as surplus, or scrapped.

3. On-site Contractor Work Space: The Contractor shall provide its own office space on site at ETEC; however, DOE will provide the specific location where electric connections are accessible. Water and sewer are not available at the site; the Contractor shall be responsible for establishing portable restrooms, potable water, internet, trash removal, and Federal Communication Commission (FCC) license for radios.
4. The Contractor may adopt the incumbent contractor's programs and procedures provided the Contractor has formally reviewed and revised (if necessary) the programs and procedures to assure compliance with Task order requirements, current regulatory requirements, DOE Orders and directives, and the Contractor's organizational roles and responsibilities.

C.1.2. SITE ACCESS REQUIREMENTS

The Contractor shall comply with the DOE and Landowner Access Agreement as prescribed in Appendix 1. All activities conducted by the Contractor shall be in accordance with established SSFL site security procedures.

The Contractor shall have non-exclusive access to the following areas within the Boeing Property to perform the Permitted Activities: Area IV, the northern undeveloped land, primary paved roads to Area IV, and drainages originating in Area IV and leading into Area III, as those areas are identified on Exhibit A ("Access Areas") of the Landowner Access Agreement.

The Access Areas will be available during regular Boeing business hours (6:00 a.m. to 5:30 p.m., Monday through Friday).

Work to be performed outside of Boeing regular business hours, including overtime, weekend, and holiday work ("Off Hours Access") must be confirmed by the Boeing Project Manager prior to scheduling such work to ensure that a Boeing representative and/or security personnel can be

onsite.

Access to the SSFL is controlled through one gate with Boeing security presence. The Contractor shall enter and exit from the SSFL Main Gate at the beginning and end of the work day. However, other roads and site gates that lead to/from site may be used on a periodic basis, with advance notice to DOE and to the Boeing Project Manager.

Site Badging: In accordance with the DOE and Landowner Access Agreement, the Contractor shall be responsible for initiating communication and coordinating with the appropriate Boeing point of contact to obtain site access badges.

Any DOE Parties who have a Boeing Non-Employee Badge (“Badge”) will have access to and within the Access Areas without needing a Boeing escort, provided such persons have completed the site Safety Orientation Briefing.

C.2 ENVIRONMENTAL MONITORING

C.2.1. General Environmental Monitoring Activities

The Contractor shall provide an environmental monitoring program to continue all environmental monitoring underway within Area IV including but not limited to:

C.2.1.1 General Environmental Monitoring Activities Other Than Building 4024 (CLINs 00004 and 00007)

1. Quarterly radiation and contamination surveys at Radioactive Materials Handling Facility (RMHF).
2. Former Sodium Disposal Facility (FSDF) Site weekly inspection of the engineered barrier installed to prevent rainwater intrusion and prevent potential re-contamination of previously remediated soil at the FSDF site. If the engineered barrier has been compromised upon inspection and water intrusion is occurring, the contractor shall notify DOE. After DOE approval, the contractor shall repair/modify the engineered barrier.
3. Quarterly radiation level monitoring as required by DOE Order 458.1 Radiation Protection of the Public and the Environment, for Area IV for RMHF. The required radiation detection location of air sampling units can be found in the 2011 Annual Site Environmental Report (ASER), Section 5.2.1 Ambient Air.
4. Preparing the ASER as required by DOE O 231.1B, Environmental, Safety and Health Reporting;
5. Perform air filter screening for development of the annual National Emissions Standards for Hazardous Air Pollutants (NESHAP) report and reporting in the ASER.
6. Air Monitoring: A radiological air monitoring program shall be developed and maintained in Area IV of SSFL. The radiological program includes ambient air sampling performed continuously as follows: (1) weekly sampling cycle for two locations, the 4020 and the RMHF facility next to 4034; and (2) quarterly dosimeter

sampling cycle for nine other locations documented in Table 5-1 of Section 5.2 “Environmental Sampling” of the 2011 ASER. Results of this radiological air monitoring program shall be reported in the ASER. Additionally the Contractor shall:

- a) Perform monitoring of airborne particulate radioactivity through collection of filters that shall be changed weekly. The samples shall be counted for gross alpha and beta radiation. In addition, on-site and off-site ambient radiation dosimeters shall be monitored quarterly. Results of this monitoring shall also be reported in the ASER.

C.2.1.2 General Environmental Monitoring Activities at Building 4024 (CLINs 00002 and 00005)

Groundwater management monitoring at Building 4024 (Building 4024 contains below grade vaults subject to periodic in-flow of water containing potentially low-levels of radioactivity). Frequency of inspections is dependent upon the weather. Currently this averages to a minimum of one day per week in dry months (April thru October) and two days per week in wet months (November thru March). Should the Contractor find water in the basement of Building 4024, the water shall be pumped and then stored in a Baker tank on the top floor of the facility. The Contractor shall take a water sample consistent with the requirements of the site-wide Groundwater Water Quality Sampling and Analysis Plan (WQSAP). Based on the results of the water sample, the contractor shall disposition the water to an appropriate off-site permitted facility that receives and treats the processed water. Currently the water is sent to Southwest Processing in Vernon, CA for processing. Historically approximately 10,000 gallons on average is shipped every six months, but in some high rain years as much as 120,000 gallons in a year have been shipped.

C.2.2. Groundwater Monitoring Activities (CLINs 00003 and 00006)

1. As described in the Site-wide Water Quality Sampling and Analysis Plan and consistent with the August 2007 Consent Order with the State of California (Appendix 7), the Contractor shall provide environmental monitoring activities for groundwater in compliance with applicable DOE Orders and all other applicable federal, state and local regulations and requirements, including the RCRA corrective action process with DTSC as the lead agency for Area IV and the NBZ. The Site-wide Water Quality Sampling and Analysis Plan (WQSAP) is identified within this PWS as Appendix 2 and can be found at:
http://www.dtsc-ssfl.com/files/lib_rcra_groundwater/sitewidesap/saps/64788_2010-1202-M489_Site-Wide_WQSAP-F.pdf.
2. Monitoring shall be performed for 20 wells semi-annually. The specific types of wells and list of sampling requirements will be determined by DOE annually at the end of each fiscal year and will be provided to the Contractor for implementation. The types of wells consist of deep bedrock, shallow bedrock, piezometer in alluvium (above

bedrock), and some wells will have a combination at different depths. Wells may be sampled for Volatile Organic Compounds (VOCs)/Total Petroleum Hydrocarbon (TPH), Radionuclides (RADS), and metals. In addition, water levels shall be measured. Every water sample collected shall be analyzed for Gross Alpha and Beta activity.

3. A list of analytes and analytical methods for each well sample may be found in the WQSAP. The Contractor shall also reference the DOE Well Conditions Summary (MS Excel spreadsheet) included with this PWS as Appendix 4.
4. Maintain the structural integrity and operability of 88 DOE groundwater wells within Area IV and the Northern Buffer Zone. Well maintenance includes, but is not limited to: repairing and replacing pumps; replacing broken concrete pads surrounding the wells; repairing, replacing, extending the outer protective steel casing; repairing, replacing, installing vehicle guard posts around the wells; repairing and replacing casing covers, lock hasps, and hinges on outer protective casings; drilling weep holes in the outer protective casing; and painting the outside of the outer protective casings, including well rehabilitation or replacement, as required.
5. There are 88 wells in Area IV at present, of which 84 are serviceable. There are four wells that are damaged and cannot be sampled; the Contractor is not responsible for repairing these wells. Additionally, the Contractor shall account for the installation and monitoring of 2 new serviceable wells at task order start that shall be monitored quarterly for the first two years of the task order period.

C.3 SURVEILLANCE AND MAINTENANCE ACTIVITIES

The Contractor shall provide Surveillance and Maintenance of the ETEC site in accordance with applicable laws, regulations and DOE directives. The Contractor shall provide site management functions that include routine S&M, site-wide safety, and ETEC site infrastructure support.

C.3.1. S&M Inspection Requirements (CLINs 00004 and 00007)

The remaining facilities at ETEC are described in Appendix 3. The Contractor shall conduct building facility inspections for all facilities identified in Appendix 3 as follows:

1. Safety assessments shall be performed quarterly consistent with the ETEC Integrated Safety Management System (ISMS) Plan.
2. Bi-weekly inspections of the two RCRA permitted facilities (HWMF and RMHF) per the RCRA Part A permit requirements and HWMF Closure Plan.
3. Routine and regular visual inspections of all DOE-owned facilities in Appendix 3, fire suppression systems, and fluid and gas piping and tank systems for leaks.

C.3.2. Facility Maintenance and Infrastructure Support (CLINs 00004 and 00007)

The Contractor shall provide maintenance of all remaining DOE-owned facilities (as identified in Appendix 3), including the provision of utilities and infrastructure support as follows:

1. The Contractor shall establish a local utility account, include metering, to provide electrical service for contractor activities.
2. Maintenance activities consisting of repairs, if necessary, for safety, facility security and protection of government property. Maintenance activities may include: minor roof repairs, minor repairs to fire extinguishers, maintaining electrical power, asphalt, windows, gutters, doors, pest control and nuisance wildlife removal.
3. The Contractor shall ensure that all buildings remain in a safe shutdown mode and that all buildings are maintained in a safe and stable configuration.
4. Necessary road maintenance as related to the performance of this PWS. Maintenance activities are limited to minor pothole/patch repairs, tarring of cracks and weed removal.

C.4 NON-D&D WASTE MANAGEMENT ACTIVITIES (CLINs 00004 and 00007)

The Contractor shall establish a program for the compliant management of all waste generated from non-D&D activities compliant with the 2010 AOC (Appendix 8). The Contractor's program shall be documented in a waste management plan to be submitted for DOE approval. No less than 120 days prior to shipment of any non-D&D waste, the Contractor shall provide a waste profile consistent with the waste acceptance criteria of the waste disposal facility. Waste minimization and pollution prevention activities at the site shall also be included. The Contractor may adopt the existing programs for non-D&D waste management.

1. The Contractor shall provide all waste handling at the RCRA permitted facilities including: storage, treatment, packaging, transportation, and off-site disposal of all waste types.
2. The contractor shall be responsible for all waste management activities, including proper characterization of waste relative to physical, chemical and radiological characteristics; identification of and coordination with disposal sites to ensure waste disposal in accordance with applicable requirements; and payment of waste transportation and disposal site fees.
3. Ensure a proper mechanism is in place to identify and locate all placarded shipments of waste, and certain other shipments within 2 hours..
4. Ensure all vehicles are road worthy, drivers properly trained, and that only U.S. citizens are brought on site at ETEC regardless of whether the waste shipment is placarded.
5. Use the USEPA Hazardous Waste Generator Identification Number for the ETEC Project identifying DOE as the owner of the waste for any document where such a number is required. Where the signature of the generator or shipper is required certifying that the waste has been properly characterized or packaged, the contractor is to ensure a properly trained, experienced, and appointed person signs on behalf of the

- DOE. A copy of the contractor appointing letter and qualifications of the individual shall be provided to the DCOR.
6. Implement a waste minimization and pollution prevention program consistent with the applicable Executive Orders and DOE Directives. The program shall be documented in the Waste Management Plan. The Contractor may use existing contractual instruments between the Federal Government and waste disposal facilities (if permitted by the terms and conditions) when disposing of waste unless the Contractor can obtain more favorable cost arrangements. Any such new subcontract shall be subject to review and approval by the DCO and/or DCOR and shall not compromise the integrity of existing federal or state environmental and health regulatory requirements.
 7. The Contractor shall prepare a Waste Management Plan complying with DOE Order 435.1 Radioactive Waste Management and implementing manuals and guides.
 8. The Contractor shall conduct specialized training programs for workers involved in radioactive waste management consistent with the ISMS program.
 9. The Contractor shall assist DOE in DOE's interface with regulatory agencies in connection with the management of all waste types present or generated at ETEC. Such assistance is anticipated to involve, but not be limited to, preparation and maintenance of all necessary waste operations and environmental permits such as RCRA Part A, and other applicable waste disposal requirements and licenses.
 10. The Contractor shall maintain a system(s) for waste tracking, inventory and database management, and prepare waste management procedures and documentation for all non-D&D related waste management activities.
 11. The Contractor shall maintain safe and compliant storage of all radioactive and hazardous waste types generated as a result of environmental monitoring activities.
 12. The Contractor shall store all radioactive wastes (including mixed wastes) and material at the RMHF complex. The radioactive wastes shall be segregated, stored, and inspected as required by applicable DOE Orders, State of California DTSC regulatory requirements, and RCRA rules and/or Federal Facilities Compliance Act (FFCA) as required for mixed waste.
 13. The Contractor shall accomplish waste storage activities required at the site for waste generated as a result of environmental monitoring. These activities include, but are not limited to the following:
 - a) Waste characterization and classification;
 - b) Safety and health oversight including radiation monitoring;
 - c) Regular inspections of storage facilities;
 - d) On-site transportation of waste to the storage facility;
 - e) Maintaining logs, waste inventory and tracking system;
 - f) Storage facility maintenance;
 - g) Preparing procedures and reports;
 - h) Contingency and spill control.
 14. The Contractor shall provide transportation for off-site disposal of all hazardous and

radioactive waste types generated as a result of environmental monitoring and S&M activities. All on-site operations in support of off-site disposal shall be in compliance with all applicable federal and state requirements and ETEC permits. Waste disposal shall comply with all applicable DOE, Department of Transportation (DOT), and disposal site waste acceptance requirements. In general, disposal operations include, but are not limited to, the following:

- a) Verification sampling for quality control purposes and repackaging of waste as needed in order to meet DOT and the disposal sites' packaging criteria;
 - b) Ensuring container integrity and verification of radiological contents;
 - c) Shipment, staging and preparation of manifests and bills of lading for waste shipments;
 - d) Vehicle safety inspections;
 - e) Disposal tracking and database management.
15. The Contractor shall appropriately disposition tritiated water in the Baker Tanks located at building 4019 and tritiated water collected during ongoing well sampling activities. The Contractor shall not use the evaporator system in RMHF Building 4022 for tritiated water.
16. Waste water generated as a result of environmental monitoring, S&M activities and groundwater well purging activities shall be managed as appropriate. The Contractor shall provide treatment, as required, of the generated waste water prior to final packaging and transportation for off-site disposal. Waste water treatment activities shall conform to the Contractor's Waste Management Program Plan and the RCRA Part A permit. Radioactive waste water treatment and equipment decontamination shall be performed at the RMHF complex. In general the waste water treatment operations shall include, but are not limited to:
- a) Internal inspections to meet permit requirements;
 - b) Environmental support and oversight;
 - c) Quality assurance support and oversight;
 - d) Preparation of written procedures required for treatment operations;
 - e) Maintenance of treatment facilities;
 - f) Stabilization as allowed by RMHF Part A Permit.
17. ETEC does not include the operation of any existing groundwater treatment facility. Currently there is only one groundwater treatment facility which is a Boeing owned and maintained facility called Groundwater Extraction Treatment System (GETS) located in Area I of the SSFL. The Contractor shall be responsible for operating and maintaining the extraction well and the DOE pipeline to GETS from Area IV.
18. The Contractor shall provide a waste minimization program that shall include, but is

not limited to, the following:

- a) Pollution prevention activities related to waste operations, S&M activities, and environmental monitoring for the purpose of identifying opportunities for minimizing the amount and/or toxicity of wastes generated or projected to be generated;
- b) Preparation of all waste minimization reports including the Annual Waste Generation Report and the Affirmative Procurement reports, as required by RCRA regulations and DOE O. 435.1 Radioactive Waste Management.

- 19. No waste from ETEC shall be disposed at the Kettleman Hills disposal site in California.
- 20. The Contractor shall ship all radioactive waste to the appropriate licensed disposal facility based upon the waste acceptance criteria of that facility.

C.5 PROJECT SUPPORT (CLINs 00004 and 00007)

C.5.1. Project Management activities

- 1. The contractor shall establish, maintain, and use a work control system that complies with the Section H clause of the task order entitled “Integrated Contractor Work Control Systems and Reporting Requirements.” For the base period of the task order, project control and reporting shall be in accordance with the requirements of Section J, Attachment J-F, Integrated Contractor Work Control Systems and Reporting Requirements Clauses - Guidance, paragraph A.2 Operations Activities. EVMS reporting is not required. If and when the D&D options (CLINs 00008 through 00012) are exercised, project control and reporting shall be in accordance with Section J, Attachment J-F, paragraph A.1 Capital Asset Projects.
- 2. If any of the D&D options are exercised, as part of the monthly progress report, the Contractor shall report on the following performance metrics and progress indicators:

Measure	Unit	Definition
Facility Square Footage De-inventoried (by FIMS identification numbers & total)	Square Feet	Total square footage of floor space cleared of waste or materials inventory in preparation for demolition.
Facility Square Footage Demolished (by FIMS identification numbers & total)	Square Feet	Total square footage (gross square feet) of floor space demolished
Footprint Reduction	Acres	Area reduced by remediation from further active cleanup, as approved

		by regulators.
D&D Debris and Remediated Soil Disposed (Low-Level Waste/Mixed Low-Level Waste, Industrial)	Cubic Meters	Bulk waste from D&D and Soil Remediation

3. The Contractor shall develop & maintain Task Order Performance Baselines for the period of the task order, consistent with Section H.101, “Integrated Work Control Systems and Reporting Requirements,” paragraph B. .
4. The contractor shall establish a routine weekly status/project integration meeting with DOE (and include other organizations and contractors as necessary) to review ongoing and future PWS activities and issues. Within these routine weekly status meetings, the contractor shall provide a brief written weekly status of ongoing and future PWS activities to DOE.
5. The contractor shall also participate in the weekly team meetings with DOE and other organizations and contractors to discuss ongoing and future PWS activities and issues.
6. Business Support activities. The Contractor shall analyze proposed or directed funding changes for their impact on technical, schedule, and cost elements of the task order baseline, along with potential impacts to the Cost and Schedule.
7. The Contractor shall provide support to the DOE for bi-monthly public tours. This shall include site access and site transportation.
8. The contractor shall provide the legal management plan per Section H.108 *Legal Management* and if required, the contractor shall also provide the necessary legal management support per paragraph B of Section H.108 *Legal Management*.

C.5.2. Property Management Program

1. The Contractor shall be directly responsible and accountable for all government property utilized under this task order. As of the effective date of this task order, the Contractor shall accept the transfer of and accountability for government property. This requirement includes government property in the possession or control of subcontractors. The Contractor shall establish and maintain a system, in accordance with Section I clause FAR 52.245-1 Government Property, to manage (control, use, preserve, protect, repair, and maintain) Government property in its possession. The system shall be reviewed and, if satisfactory, approved in writing by the DOE property administrator and CO within 90 days of the NTP. All government-furnished property under this task order is furnished on an “as is/ where is” basis. A significant inventory of government-owned property (see Section J, Attachment J-D) is present at the site and shall require storage and maintaining.
2. The Contractor shall identify assets no longer needed or required for current or future use. After identification, property shall be divested utilizing DOE guidelines and in accordance with federal (Federal Property Management Regulation 41 CFR Part 101; Disposition of Excess Personal Property 41 CFR Part 102-36; and FAR 52.245-1),

state and local regulations. The Contractor shall prepare a disposition and divestment report for each facility affected.

3. The Contractor shall be responsible for maintaining a facility management system for all real property assets at the site. The DOE has established the Facility Information Management System (FIMS) as the reporting system for all DOE real property facilities. The Contractor shall contact the DOE FIMS administrator at the EMCBC to become a registered user of the system. The Contractor shall become a member of the FIMS community, attend monthly conference calls and designate a responsible individual to complete all FIMS input in a timely manner, as required. All real property actions shall be coordinated through the DOE Real Estate Contracting Officer that supports the site.

C.5.3. Safety and Quality Program

C.5.3.1. Worker Safety and Health

The contractor shall develop and submit to DOE for approval a written worker safety and health program (WSHP) compliant with requirements appearing in 10 CFR 851. The Contractor shall ensure that its plan addresses and encompasses all of the work to be performed under this task order at the site. The Plan shall also be applicable to the Contractor's subcontractors performing work at ETEC. It is the Contractor's responsibility to ensure that all subcontractors performing work at ETEC comply with the Plan. The Contractor shall submit the written WSHP to DOE for approval within 60 days of the NTP. In addition, whenever a significant change or addition to the program is made an updated WSHP must be submitted to DOE for review and approval. Annually, the Contractor shall submit either an updated WSHP to DOE for approval or a letter stating that no changes are necessary in the currently approved worker safety and health program.

The contractor will also be responsible for reporting occupational safety & health information as required in Attachment 3 to DOE O 231.1B, Environment, Safety, and Health Reporting, including but not limited to, electronic submission of injury and illness reports using the Computerized Accident/Incident Reporting System (CAIRS).

C.5.3.2. Integrated Safety Management (ISM) System

The Contractor shall implement and maintain an ISM System to accomplish all work as required by DEAR 970.5223-1, Integration of Environment, Safety and Health into Work Planning and Execution. The ISM System should encourage a positive safety culture, encourage worker participation in the development of work control and hazard identifications processes, and emphasize the workers right to stop work in cases of imminent hazard to life, health or property. When applicable, the Contractor shall input Operating Experiences and Lessons Learned per DOE O 210.2A, DOE Corporate Operating Experience Program. The Contractor shall submit the written ISM System Description to DOE for approval within 60 days of the NTP. The DOE Contractor will be required to assess the ISM System and provide an annual declaration of implementation based on DOE Guidance.

C.5.3.3. Occupational Radiation Protection Program

Consistent with 10 CFR 835, Occupational Radiation Protection, DOE O 458.1, Radiation Protection of the Public and the Environment, and the DOE Implementing Guides, the Contractor shall conduct site activities in compliance with a DOE approved Radiation Protection Program (RPP) to minimize occupational exposure to internal radiation, direct, external exposure to ionizing radiation as well as to minimize the spread of contamination. The Contractor shall submit the written RPP to DOE for approval within 60 days of NTP. The As Low As Reasonably Achievable (ALARA) process shall be applied to EM program activities, shall be documented in the Radiation Protection Program, and shall consider all regulatory established radiation exposure and clean up action levels. Radiation protection requirements are stipulated in Section J, Attachment A, List of Required Compliance Documents. The Contractor is also expected to provide timely response to employee and public concerns regarding radiological activities and the impact of these activities on the health & safety of the community.

The Contractor shall provide a personnel dosimetry program and may adopt the current Boeing dosimetry program for performance under this task order. The program shall include a personnel dosimetry program for the Contractor, DOE ETEC staff, and visitors.

C.5.3.4. Emergency Management

The Contractor shall provide support to DOE by participating in the site's Emergency Management program including planning, preparedness, response, recovery, and readiness assurance per DOE O 151.1C, Comprehensive Emergency Management System.

The Contractor shall prepare/revise, submit for DOE approval, and execute the approved project specific Emergency Plan and implementing procedures in coordination with the Boeing Site Emergency Management Program coordinator, within 60 days of the NTP. The Contractor shall ensure that this Emergency Plan addresses and encompasses all of the work to be performed under this task order and is integrated with the RMHF Contingency Plan, the SSFL Area IV Emergency Readiness Assurance Plan, and the site-wide Emergency Response Plan.

The Contractor shall coordinate with Boeing in developing and participating in an exercise program that is compliant with DOE Order 151.1C, Comprehensive Emergency Management System. The Contractor shall ensure adequate support is available in the event of an emergency which may include but is not limited to wildfires and earthquakes.

The Contractor shall prepare/revise, submit for DOE approval, and execute the approved Emergency Planning Hazard Surveys and, if applicable, Emergency Planning Hazard Assessments at least every three years or whenever a major change occurs. The Contractor shall develop and update as needed, site/facility-specific Emergency Action Levels (EALs) for the spectrum of potential Operational Emergencies identified by the Emergency Planning Hazard Assessment to include protective actions for implementation in the Site Emergency Program.

The Contractor shall also prepare/revise and submit for DOE approval timely Emergency Readiness Assurance Plan that is compliant with DOE Order 151.1C, Comprehensive Emergency Management System.

The Contractor shall prepare/revise, submit for DOE approval, and execute the approved Continuity of Operations Plan per DOE Order 150.1, Continuity Programs, within 60 days of the NTP.

C.5.3.5. Quality Assurance

The Contractor shall develop, implement, assess, and continuously improve the Quality Assurance Program (QAP) in accordance with DOE Order 414.1D, Quality Assurance, Attachment 2, Contractor Requirements Document (CRD); the EM QAP, EM-QA-001; associated DOE directives (i.e. Policies, Guides, Manuals, and Orders) and Section H.103, Quality Assurance (QA). The QAP shall be submitted to DOE for approval within 60 days of the NTP and DOE approval must be documented prior to commencing any work under the task order.

The Contractor shall develop and implement a comprehensive Issues Management System for the identification, assignment of significance category, and processing of quality or safety-related issues identified within the Contractor's organization in accordance with DOE Order 414.1D, Quality Assurance, Attachment 2, Contractor Requirements Document; the EM Quality Assurance Program, EM-QA-001; associated DOE directives (i.e. Policies, Guides, Manuals, and Orders) and Section H.103, Quality Assurance (QA).

C.5.3.6. Contractor Assurance System

The contractor must establish a contractor Assurance system tailored to meet the needs of the ETEC Site. The Contractor shall develop and implement a Contractor Assurance System (CAS) based on the requirements of DOE O 226.1B, Implementation of DOE Oversight Policy, Attachment 1, Contractor Requirements Document (CRD). The CAS shall be submitted to DOE for approval within 60 days of the NTP.

C.5.4. Training

The Contractor shall provide a training program related to site operations and activities. The training program must be tailored to address specific operational needs and expertise. The primary goal is to ensure workers' safety and health is maintained through a sufficient training program. The Contractor's training program shall adequately educate individual employees in the areas of facility and equipment maintenance and operations in order to ensure worker safety as well as protection of property. Overall, the training program shall provide for employee competence, job knowledge, and an understanding of environmental, health and safety requirements. The Contractor's training program shall accomplish the following:

- a) Prepare and perform site health and safety briefings for workers and visitors.
- b) Increase employee performance and assure employee proficiency;
- c) Prepare employees for changing technology and regulatory requirements;
- d) Maintain all training records, including certification of training for all employees working on site activities;
- e) Be tailored based on EM mission and operational needs;
- f) Implement individual development goals and plans.

C.5.5. Document Control and Records Management

1. The contractor shall develop, implement and maintain sound document control systems and processes ensuring efficient tracking, retrieval, revision control and distribution of documents, including drawings.
2. The Contractor shall maintain a Records Management Program. The Contractor shall manage records (regardless of media) in accordance with Title 44 USC, Chapters 21, 29, 31, 33, and 35; 36 CFR, Chapter 12, Subchapter B (Records Management) and DOE O 243.1B (Records Management Program) , and any other DOE requirements as directed by the CO. These functions include, but are not limited to, the following:
 - a) Tasks associated with creation/receipt, maintenance, storage/preservation, protecting, inventorying, scheduling, indexing and dispositioning active and inactive records in the performance of the task order, including records obtained from a predecessor contractor. Records may be stored on-site in Building 4057 (until the D&D option CLIN 00011 is exercised) or on-site within the Contractor's workspace; commercially off-site with proper DOE approval; or inactive records at a Federal Records Center.
 - b) Recording training for all employees;
 - c) Retrieving records from on- and off-site storage facilities;
 - d) Supporting DOE records management data calls, as well as record requests including ongoing Freedom of Information Act (FOIA), Privacy Act, Energy Employee Occupational Illness Compensation Program Act (EEOICPA), Former Worker Medical Screening Program (FWP), Chronic Beryllium Disease Prevention Program (CBDPP), congressional inquiries, and legal discovery requests;
 - e) The contractor shall ensure records classified as Quality Assurance (QA) records under ANSI/ASME NQA-1 (Requirement 17), if applicable, are categorized appropriately and managed in accordance with 36 CFR Chapter 12, Subchapter B and are traceable to the applicable item, activity or facility.
 - f) The Contractor shall develop and implement records management controls to ensure that the identification, maintenance, and disposition of electronic records (including email) are managed through the use of records management applications, in accordance with Federal and Department requirements and guidelines. Additionally, the contractor must incorporate controls into electronic information systems or integrate them into a recordkeeping system that is external to the information system

- itself in accordance with 36 CFR 1236.
- g) The contractor shall ensure that records generated/received in the performance of the task order, including records obtained from a predecessor contractor, that contain personal information retrieved by name or another personal identifier are categorized and maintained in Privacy Act systems of records, in accordance with FAR 52.224-2, the “*Privacy Act*”, and DOE Order 206.1, “*DOE Privacy Program*.”
 - h) Except for those defined as contractor-owned (in accordance with DEAR 970.5204-3, “*Access to and Ownership of Records*,” see Section I), all records (see 44 USC 3301 for the statutory definition of a record) acquired or generated by the contractor in the performance of this task order including, but not limited to, records from a predecessor contractor (if applicable) and records described by the task order as being maintained in Privacy Act Systems of Records, shall be the property of the Government.
 - i) The Contractor shall preserve and disposition records/information content in accordance with NARA-approved records disposition schedules (DOE Record Disposition Schedules), as posted on the DOE Office of the Chief Information Officer (OCIO) Records Management web page. Note: Records retention standards are applicable for the classes of records described therein, whether or not the records are owned by the Government or the Contractor (DEAR 970.5204-3).
 - j) The contractor shall create and maintain an Administrative Records (AR), which is a compilation of all documents that are considered or relied on when response-action decisions are made, including records generated under the previous contract. Public participation in the development of the AR is required by law. Materials that are typically part of the project record and that have been identified for inclusion in the AR shall be duplicated in their entirety for both the project records and the AR. The only exceptions to this would be very large sets of materials (e.g., the complete set of Environmental Impact Statement references), which should be placed in the AR along with a color page “flag”—placed in both the project record and the AR—stating that the sole hard copy is in the AR.
 - k) The Contractor shall prepare/revise, submit for DOE approval, and execute an approved Records Management Plan, File Plan, Vital Records Plan and Inventory, Records Disposition Plan, and Records Management Close-out Plan consistent with records management regulations, including Section I clause entitled “DEAR 970.5204-3 Access to and Ownership of Records” and Section H clause entitled “Privacy Act Systems of Records”.

C.5.6. Regulatory Support Activities

1. The Contractor shall, in coordination with DOE, support regulatory interface activities with the DTSC, the State of California Ventura County, and the State of California Los Angeles Regional Water Quality Control Board to ensure full compliance with all applicable health and safety regulations as well as applicable and negotiated environmental regulations and requirements. Regulatory support shall also cover diverse areas such as permitted discharges to air and water, radiation and hazardous

waste regulations, and state OSHA rules and regulations. In addition, regulatory support activities shall include the following:

- a) Maintain a high level of working knowledge of environmental, health and safety regulatory requirements and the ability to effectively interpret and apply such requirements;
- b) Assist DOE with local, state and federal regulatory affairs;
- c) Monitor compliance with Environment, Health & Safety (ES&H) requirements;
- d) Prevent non-compliance through internal assessments and early detection of potential non-compliance;
- e) Assist DOE in negotiation and coordination of all ES&H activities with regulators in the areas of permit modifications, defining technical scopes of work and modifications thereto, preparation for regulatory inspections, and preparation of reports and responses to regulators.

Regulatory support activities under this PWS do not include public outreach or public affairs support.

2. Regulatory Compliance and Permits:

The Contractor shall be responsible for coordinating with Boeing to prepare appropriate transmittals and applications for transfer or modification of all necessary operating and environmental permits, agreements, licenses, etc. from Boeing to the Contractor for all DOE owned/contractor operated facilities, systems or processes. The Contractor shall evaluate all current permits and agreements necessary for performance of this PWS. Currently required permits include: The Contractor shall be a co-permittee for the RMHF and HWMF RCRA Part A permits, CUPA (part of Business Plan permit), Ventura County Air Permit, Ventura County Burn Permit, CARB, CalOSHA Boiler permits.

The Contractor shall:

- a) Establish and document an environmental program that is compliant with all applicable laws, regulations, and DOE directives (including DOE O 436.1, Departmental Sustainability).
- b) Comply with all existing regulatory agreements and permits and renew existing permits and/or obtain new permits as necessary.
- c) Comply with the terms of the 2007 Consent Order (Appendix 7), 2010 AOC (Appendix 8), the DOE and Landowner Access Agreement (Appendix 1) and other regulatory permits and agreements in place for ETEC. The regulatory process for evaluating and selecting the approaches for D&D and waste disposition will include stakeholder participation.
- d) The Contractor shall also be required to sign Exhibit E of the DOE and Landowner Access Agreement as prescribed in Appendix 1.

C.5.7. Phase Out and Closeout Activities

Phase Out Activities

1. The Contractor shall submit a Phase-Out Transition Plan to include its approach to adequately phase-out all task order activities.
2. The Contractor shall perform those activities that are necessary to transition the work under this task order to a successor Contractor in a manner that (1) assures that all work for which the Contractor is responsible under the task order is continued without disruption; (2) provides for an orderly transfer of resources, responsibilities, and accountability from the incumbent contractor; and (3) provides for the ability of the Contractor to perform the work in an efficient, effective, and safe manner.
3. The Phase-Out Transition Plan shall include a schedule of major activities, and address as a minimum:
 - A training and orientation program for the successor Contractor to cover the complete scope of work covered by the task order and other specific requirements associated with work efforts at the ETEC site;
 - Communication process among DOE, the incumbent Contractor, assigned subcontractors, incumbent employees, and the successor Contractor and/or subcontractors;
 - Identification of key transition issues and milestones;
 - Identification of a transition team (inclusive of consultants and teaming members, if any);
 - Approach to minimizing impacts on continuity of operations;
 - Dispute Resolution;
 - Transition of programs, plans and projects;
 - Transition and/or modification of necessary permits, shall include list of permits and purpose;
 - Transition of existing management and operating systems, plans, procedures, programs (e.g., Project Management, Operating Procedures, Worker Safety and Health plan, QA plan, ISMS program, Occupational Radiation Protection Program, Waste Management Program, and Records Management Program);
 - Transition of all Task/SubTask responsibilities, functions, and activities;
 - Transition of all interface control documents; and
 - Transition of any other documents or records that would be required for a successor contractor to adequately and efficiently provide support at ETEC.

Upon DOE approval of the Phase-Out Transition Plan, the Contractor shall successfully complete the activities described in the plan by the end date of the task order or option ordering period specified in Section B, whichever comes later. The Phase-Out Transition

Plan shall be submitted in accordance with this PWS and Section J, Attachment J-B “Task Order Deliverables/Submittals.”

Closeout Activities

1. The Contractor shall submit a Closeout Plan to document the necessary steps the Contractor shall take to adequately closeout the task order. The Closeout Plan shall include a schedule of major activities, and address as a minimum:
 - Identification of all task order deliverables submitted and accepted. The Contractor shall include date submitted, DOE acceptance date (if applicable) and status of any remaining open deliverables.
 - Status of all requirements in Section C completed under this task order.
 - Identification of all subcontracts along with status of each subcontract’s settlement and final payment. The Contractor shall identify for each subcontract under this task order whether final invoices have been paid, date of final payment, current status of settlement, and any other outstanding issues related to final settlement and payment of subcontracts.
 - Site/Security Badges. The Contractor shall document each Contractor and subcontractor employee name and indicate whether the site/security badges have been returned to Boeing. Proof of Boeing acceptance for return of all site/security badges shall be included.
 - Final Invoice. The Contractor shall provide status of the final invoice.
 - Final CPARS Report. The Contractor shall provide status of the final CPARS report.
2. The Closeout Plan shall be submitted in accordance with this PWS and Section J, Attachment J-B “Task Order Deliverables/Submittals.” Final payment may be withheld by DOE until all of the necessary activities are completed by the Contractor.
3. Upon completion of the task order, a final modification will be executed to officially closeout the task order. A final release statement will be included in the closeout modification where the Contractor discharges the Government, its officers, agents and employees from all liabilities, obligations and claims under the task order.

C.6 D&D WORK

Commencement of any D&D Option CLIN, including D&D mobilization activities, may not begin until DOE completes the ETEC EIS and issues the Record of Decision (ROD). Completing the EIS and issuing the ROD are DOE functions and are NOT tasks that the contractor will perform. DOE’s decision whether to exercise any D&D Option CLIN will be contingent upon the remedy identified in the ROD.

If a D&D Option CLIN is exercised, all D&D activities shall be completed according to DTSC-approved DOE Standard Operating Procedure (SOP) for Demolition of Facilities in Area IV at the SSFL. The SOP is included within this PWS as Appendix 5. Further, the Contractor shall generate detailed D&D plans for each D&D Option CLIN. These detailed D&D plans will require approval by both DOE and DTSC before any D&D work can begin. The Contractor shall submit the D&D plan to DOE for approval and DOE will then submit the D&D plan to DTSC.

The D&D Option CLIN for RMHF (CLIN 00012) will be the last option exercised under the D&D work.

D&D conducted under each CLIN, if DOE exercises the option for a particular CLIN, will include the following activities per the SOP and the following additions:

C.6.1. Pre-Demolition

Pre-Demolition activities shall include Section 2.1 Documentation Review, Section 2.2 Pre-Demolition Inspections, Section 2.3 Pre-Demolition Planning, Section 2.4 Radiological Surveys, and Section 2.5 Demolition Preparation and Abatement of the SOP (Appendix 5). In addition, the following activities shall be performed, although the list is not inclusive of activities that may be performed as a result of the ROD:

1. Pre-Demolition activities shall include preparation of the detailed D&D plans for DOE and DTSC approval. Specific components of the D&D plan for each D&D Option CLIN shall include: maps, figures, a description of buildings and extent of removals, specific waste management profiles, existing radiological survey data as provided by DOE (*see Appendix 6 to this PWS, EPA Final Report entitled "Final Radiological Characterization of Soils Area IV and the Northern Buffer Zone"*), US EPA gamma survey and US EPA soil sample data in the vicinity of the facility, and the locations/results of pertinent waste characterization samples. D&D plans shall include comprehensive, detailed listings of tasks and sub-tasks, including those involved with waste management that must be accomplished to complete the demolition project. Specific components to be addressed within these plans for the waste management profile include: waste generation, characterization, packaging and shipping, and QA verification. The D&D plans shall also consider the radiological and chemical hazards before and during demolition. The D&D plan shall include a signed statement based on review of historical documentation certifying, to the best of knowledge and belief, the radiological-related activities, if any, conducted in any structure of the demolition. The D&D plan shall also include an assessment of potential impacts the proposed activities may have on active RCRA Facility Investigation and remediation efforts, on permanent groundwater monitoring, or on remediation systems. The D&D plan shall identify areas where removal of underground features will result in excavation or soil disturbance to depths greater than three feet below ground surface.
2. The contractor shall be required to conduct biological monitoring in compliance with Section 7 of the Endangered Species Act for all D&D areas. The necessary clearances

for biological resources shall also be performed prior to any D&D activities. Results shall be reported within the D&D plan.

3. Each D&D plan shall include provisions for compliance with the Migratory Bird Treaty Act.
4. The Contractor shall implement an effective safety program for all EM D&D activities. Considering the requirements for the ISMS, Worker Safety and Health Plan, QA Plan, and Occupational Radiation Safety Program previously discussed under Section C.5 Project Support, the Contractor shall review and update these programs and plans for implementation of D&D activities, and shall submit them for DOE approval as required.
5. In addition to Section 2.5.5 Asbestos Abatement of the SOP (Appendix 5), survey and removal of all asbestos containing materials (ACMs), universal waste (e.g. mercury in electrical equipment), and Polychlorinated Biphenyls (PCBs) shall be required to render the site safe for demolition. All buildings shall require Asbestos, universal waste, and PCBs surveys prior to demolition. ACMs could consist of insulation on conventional piping and plumbing, boilers, steam generators or heaters. Asbestos may also be found in ceiling tiles, floor tiles, gaskets, structural supports, fire walls, roofing materials, etc. Specialized asbestos insulation configurations will be found on the sodium piping loops in several facilities.
6. Facility preparation activity shall also include reviewing utility as-built drawings for all structures abandoned in place, as well as disconnecting utilities and services in preparation for D&D activities. The Contractor shall use air-gapping or other physical means to ensure that utilities are de-energized prior to D&D activities. Utilities and services necessary for demolition activities to comply with OSHA standards and codes shall be installed.
7. For the radiological facilities D&D and any asbestos abatement, the Contractor shall perform all analyses required to demonstrate compliance with NESHAP requirements and prepare any required notifications. Results shall be reported within the D&D plan.
8. The Contractor shall be responsible for supporting pre-demolition site tours related to the specific D&D effort. This shall include site access and site transportation.

C.6.2. Demolition

Demolition activities shall include Section 3.3 Demolition Operations located on page 7 of the SOP (Appendix 5), and Sections 3.2.1 – 3.2.3 on pages 7 - 9. In addition the following conditions shall apply:

1. The Contractor shall provide an archeologist and Native American monitor for all ground disturbing activities in accordance with Section 106 of the National Historic Preservation Act.
2. Explosive demolition techniques may not be used.
3. The Contractor shall perform the following additional D&D activities for the Sodium Pump Test Facility (includes buildings 4462 and 4463):

- a) Remove the exterior cables, instrumentation, auxiliary gas and fluid lines, component insulation, and heater elements that cover or attach to the sodium loop subsystems;
 - b) Selectively dismantle auxiliary systems components to provide clearance and a working area;
 - c) Remove sodium pipe and components in sections sized so that they can be safely maneuvered;
 - d) Remove all sodium and sodium compounds, clean all sodium containing components, and recycle metal scrap and sodium hydroxide to the extent practical.
4. The Contractor shall not disturb underlying soil more than three feet below the bottoms (i.e. beneath slabs or foundations) of the structures to be demolished.
 5. When performing demolition activities that expose soil, the Contractor shall observe the excavation to determine if there is the potential for previously undocumented releases of hazardous substances to have occurred. Indications of previously undocumented releases could include stained, discolored, wet, or saturated soils; odors; or the discovery of previously unknown features such as tanks or sumps that could indicate past chemical use. If such features are discovered, the Contractor shall pause work in the affected area, notify DOE, and propose a path forward to evaluate the area further and resume work. In such situations, the Contractor shall take necessary actions to minimize health and environmental impacts of the suspected contamination, and to minimize the generation of hazardous or mixed wastes.
 6. The Contractor shall pause work in the affected area and notify DOE if it encounters previously unknown features, the removal of which would result in excavation or soil disturbance to a depth greater than three feet below ground surface. If such features are discovered, the Contractor shall propose a path forward to evaluate the area further, assess the amount of excavation that would be required, and resume work.

C.6.3. Management of Demolition Materials and Waste Disposal

The Contractor shall perform the necessary activities for management of demolition materials and waste disposal in accordance with Section 4.0 of the SOP, Management of Demolition Materials and Waste Disposal, including Section 4.1 Waste Characterization, Section 4.2 Radioactive Waste Management, Section 4.3 Mixed Low Level Waste, Section 4.4 Hazardous Waste, Section 4.5 Non-hazardous waste, Section 4.6 Recycling of Demolition Materials, and Section 4.7 Transportation of Waste. In addition the following activities shall be performed to modify the existing Waste Management Program for non-D&D work as required:

1. The Contractor shall modify the Contractor's Waste Management Plan to include demolition waste disposal, for DOE approval.
2. The Contractor shall ship all radioactive waste to the appropriate licensed disposal facility based upon the waste acceptance criteria of that facility.
3. The Contractor shall ensure compliance with the 2010 AOC (Appendix 8).

4. The Contractor shall ensure compliance with the NEPA Environmental Impact Statement and Record of Decision and the CEQA analysis for transportation of waste off-site.
5. All demolition waste, including the contents of buildings removed during pre-demolition preparations, shall be disposed of to a Class I hazardous waste landfill, if disposed of to a California landfill, consistent with, and in compliance with the State of California Executive Order D-62-02.
6. The dose rate on both sides of each demolition related, debris-filled truck/roll-off from former radiological buildings will be monitored and recorded before it leaves the site.
7. No waste from ETEC shall be disposed at the Kettleman Hills disposal site in California.

C.6.4. Post-Demolition Activities

Post-Demolition activities shall include only Sections 5.2 and 5.3 of the SOP (Appendix 5). In addition the following activities shall be performed:

1. Completion of D&D activities shall be consistent with all provisions of the Administrative Order on Consent between the State of California and DOE dated 6 December 2010 (Appendix 8) and the NEPA EIS Record of Decision and the CEQA analysis; however, demonstration that the footprint soil (and any required backfill soil) meets the requirements of the AOC (Appendix 8) will be verified by the U.S. Environmental Protection Agency (EPA) and will not be within the scope.
2. DTSC's Green Remediation Initiative may be considered as D&D activities are completed and backfill is performed.

Appendix 3 contains a list of numbered structures that are required to be demolished.

C.7 DELIVERABLES

See Section J, Attachment B entitled "Task Order Deliverables/Submittals."

C.8 LIST OF APPENDICES

Appendix 1 – DOE and Landowner Access Agreement

Appendix 2 – Site-wide Water Quality Sampling and Analysis Plan which can be found at:

http://www.dtsc-ssfl.com/files/lib_rcra_groundwater/sitewidesap/saps/64788_2010-1202-M489_Site-Wide_WQSAP-F.pdf.

Appendix 3 – Listing of Facilities for D&D scope

Appendix 4 – DOE Well Conditions Summary (MS Excel spreadsheet)

Appendix 5 – Department of Energy Standard Operating Procedure for Demolition of Facilities in Area IV at the Santa Susana Field Laboratory

Appendix 6 - EPA Final Report entitled "Final Radiological Characterization of Soils Area IV and the Northern Buffer Zone" which can be found at:

http://www.etc.energy.gov/Char_Cleanup/EPA_Soil_Char.html

Appendix 7 – State of California Environmental Protection Agency DTSC 2007 Consent Order for Corrective Action with DOE, NASA, and Boeing

Appendix 8 - State of California Environmental Protection Agency DTSC 2010 Administrative Order on Consent for Remedial Action with DOE