



Prime Contract Office

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Date: August 9, 2011
Refer To: PCM-11-176

Kenneth A. Snyder
Contracting Officer
Los Alamos Site Office
U.S. Department of Energy
National Nuclear Security Administration
3747 West Jemez Road
Los Alamos, NM 87544

Subject: Transmittal of Decontamination and Decommissioning (D&D) CD-4/Closeout Report for Recovery Act Defense D&D Project VL-LANL-0040-D.R1

Dear Contracting Officer:

Attached is the CD-4/Closeout report for the Los Alamos National Laboratory Defense Environmental Cleanup, Decontamination and Decommissioning (D&D) – TA-21 Demolition of TA-21 Delta Prime (DP) East and West Facilities project VL-LANL-0040-D.R1. The report was developed in accordance with DOE Order 413.3A, *Program and Project Management for the Acquisition of Capital Assets*.

As of July 29, 2011, Los Alamos National Security, LLC (LANS) has achieved physical completion of the Recovery Act TA-21 D&D project. All punch list items have been completed and Los Alamos Site Office (LASO) comments have been incorporated into the CD-4 package. Subcontractors have been paid and there are no outstanding claims. All key performance parameters for this project have been met.

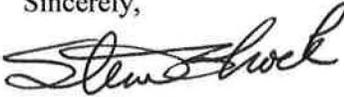
LANS has safely completed this project ahead of schedule and under the approved budget. LANS also completed the demolition of two additional buildings (21-149 and 21-150) through efficiencies realized in project execution and over 130 new jobs were created during this effort.

The project has had a significant impact on the skyline at TA-21 and is a result of collaborative effort of the LANS and LASO project teams. LANS is ready to support you in CD-4 validation and approval by LASO and the Acquisition Executive.



Should you have any questions, please feel free to contact me or Bruce Schappell at 606-2337.

Sincerely,



Steve Shook
Prime Contract Chief

SS/am

Attachment: a/s

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PCM-DO Files

Los Alamos National Laboratory American Recovery and Reinvestment Act (ARRA) Project



Critical Decision 4

American Recovery and Reinvestment Act

Environmental Cleanup Project

Demolition of TA-21 Delta Prime (DP) East and West Facilities

PBS VL-LANL-0040D.R1 Defense D&D – TA-21

DOE Environmental Management Program

Los Alamos Site Office

August 2011

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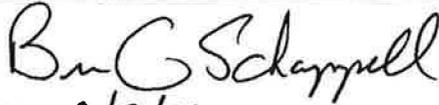
**LANL ARRA Sub Project -
Demolition of TA-21 Delta Prime East and West Facilities**

Critical Decision 4

SIGNATURE PAGE

Project Name	Environmental Management Projects
Sub Project Number	RA-09-002, LANL TA-21 Demolition of Delta Prime East and West Facilities
Site	Los Alamos National Laboratory
Date	July 2011
Document Restriction	None
EM Program Office POC	Everett Trollinger, Federal Project Director

Approvals:

Bruce Schappell, ARRA Executive Director, Los Alamos National Security, LLC	 Date: 8/9/11
Everett A. Trollinger, Federal Project Director, Los Alamos Site Office	Date:
George J. Rael, Environmental Project Office Manager, Los Alamos Site Office	Date:
Kevin Smith, Manager, Los Alamos Site Office	Date:
Jack Craig Director, EM Consolidated Business Center	Date:

REVISIONS PAGE

Revision No.	Date Approved	Description/Affected Pages
0		Initial issue

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**LANL ARRA Sub Project -
Demolition of TA-21 Delta Prime East and West Facilities**

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Attachments

Attachment 1 - DP East and West Project Operating Plan (POP)

Attachment 2 - DP East and West Stimulus Program Office Support Task Scope Description

Attachment 3 - DP East and West Baseline Change Proposal Log

Attachment 4 - DP East and West Work Authorization Document

Attachment 5 - DP East and West Subcontract Final Project Closeout Reports (Attached CD)

Attachment 6 - IPABS Reconciliation Sheet

ACRONYMS AND ABBREVIATIONS

AOC	Area of Contamination
ARRA	American Recovery and Reinvestment Act
ARSEC	ARSEC Environmental, LLC
BCP	Baseline Change Proposal
CD	Critical Decision
CPI	Cost Performance Index
D&D	Decontamination and Decommissioning
DOE	U.S. Department of Energy
DP	Delta Prime
EAC	Estimate at Completion
EM	Office of Environmental Management
EMS	Environmental Management System
EMRAP	Office of Environmental Management Recovery Act Program
ES&H	Environmental , Safety and Health
FFCA	Federal Facilities Compliance Agreement
FFCO	Federal Facility Compliance Order
FPD	Federal Project Director
FY	Fiscal Year
GPS	Global Positioning System
HC	Hazard Category
IND	Industrial waste
IPABS	Integrated Planning, Accountability, and Budgeting System
IPT	Integrated Project Team
ISMS	Integrated Safety Management System
ITSI	Innovative Technical Solutions, Incorporated
IWD	Integrated Work Document
KPP	Key Performance Parameter
LANL	Los Alamos National Laboratory
LANS	Los Alamos National Security, LLC
LASO	Los Alamos Site Office
LLW	Low Level Waste
MDA	Material Disposal Area
M&O	Management and Operating

ACRONYMS AND ABBREVIATIONS

MLLW	Mixed Low Level Waste
MR	Management Reserve
MSA	Management Self-Assessment
NMED	New Mexico Environment Department
NNSA	National Nuclear Security Administration
OMB	Office of Management and Budget
PBS	Project Baseline Summary
PCB	Polychlorinated Biphenyl
PEP	Project Execution Plan
PIC	Person-In-Charge
PMB	Performance Measurement Baseline
POP	Project Operating Plan
PPE	Personal Protective Equipment
QA	Quality Assurance
QAP	Quality Assurance Plan
RARE	Recovery Act Readiness Evaluation
RCRA	Resource Conservation and Recovery Act
RCT	Radiological Control Technician
SPI	Schedule Performance Index
SV	Schedule Variance
SWMU	Solid Waste Management Unit
TA	Technical Area
TPC	Total Project Cost
TSD	Task Scope Descriptions
TSFF	Tritium Systems Fabrication Facility
TSTA	Tritium Systems Test and Assembly
WAD	Work Authorization Document

Purpose

US Department of Energy (DOE) Order 413.3A, Program and Project Management for the Acquisition of Capital Assets, requires that for projects over 20 Million Dollars, a Critical Decision 4 (CD-4) be prepared and submitted for approval upon completion of the project key performance parameters (KPPs).

As required, KPPs were established within the Los Alamos National Laboratory (LANL) American Recovery and Reinvestment Act (ARRA) Project, Project Execution Plan (PEP), dated January 2010, specifically for this subproject (Disposition of DP East and West Facilities and ancillary structures, VL-LANL-0040D.R1-Defense D&D). This subproject is more than \$20 Million.

Critical Decision 4 is requested for this subproject and will mark the completion of the scope and key performance parameters (KPP) established under the ARRA project.

Background

President Obama signed the *American Recovery and Reinvestment Act of 2009 (ARRA)* into law on February 17, 2009. The intent of the ARRA is to provide stimulus to the U.S. economy by funding a variety of federal, state, and local projects that are already well defined and ready to implement.

The DOE Office of Environmental Management (EM) received \$6 Billion through the ARRA to accelerate environmental cleanup work. The projects identified for this funding, focus on accelerating cleanup of soil and groundwater, transportation and disposal of waste, and cleaning and demolishing former weapons complex facilities. DOE EM has identified approximately \$212 Million of this funding to support these activities at Los Alamos National Laboratory (LANL).

Los Alamos Site Office (LASO) had identified four subprojects for ARRA funding: cleanup of Material Disposal Area (MDA) B; installation of monitoring wells, deactivation and decommissioning (D&D) of structures at the Tritium Systems Test and Assembly (TSTA) facility; and D&D of structures at the Delta Prime (DP) East and West areas. The LANL ARRA Project scope, with the exception of the monitoring wells, is physically located at Technical Area (TA) 21. Figure 2.1-1 illustrates the location of TA-21 within the Los Alamos area. Figure 2.1-2 provides an aerial view of TA-21. This CD-4 documents the completion of D&D activities for the DP East and West Subproject.

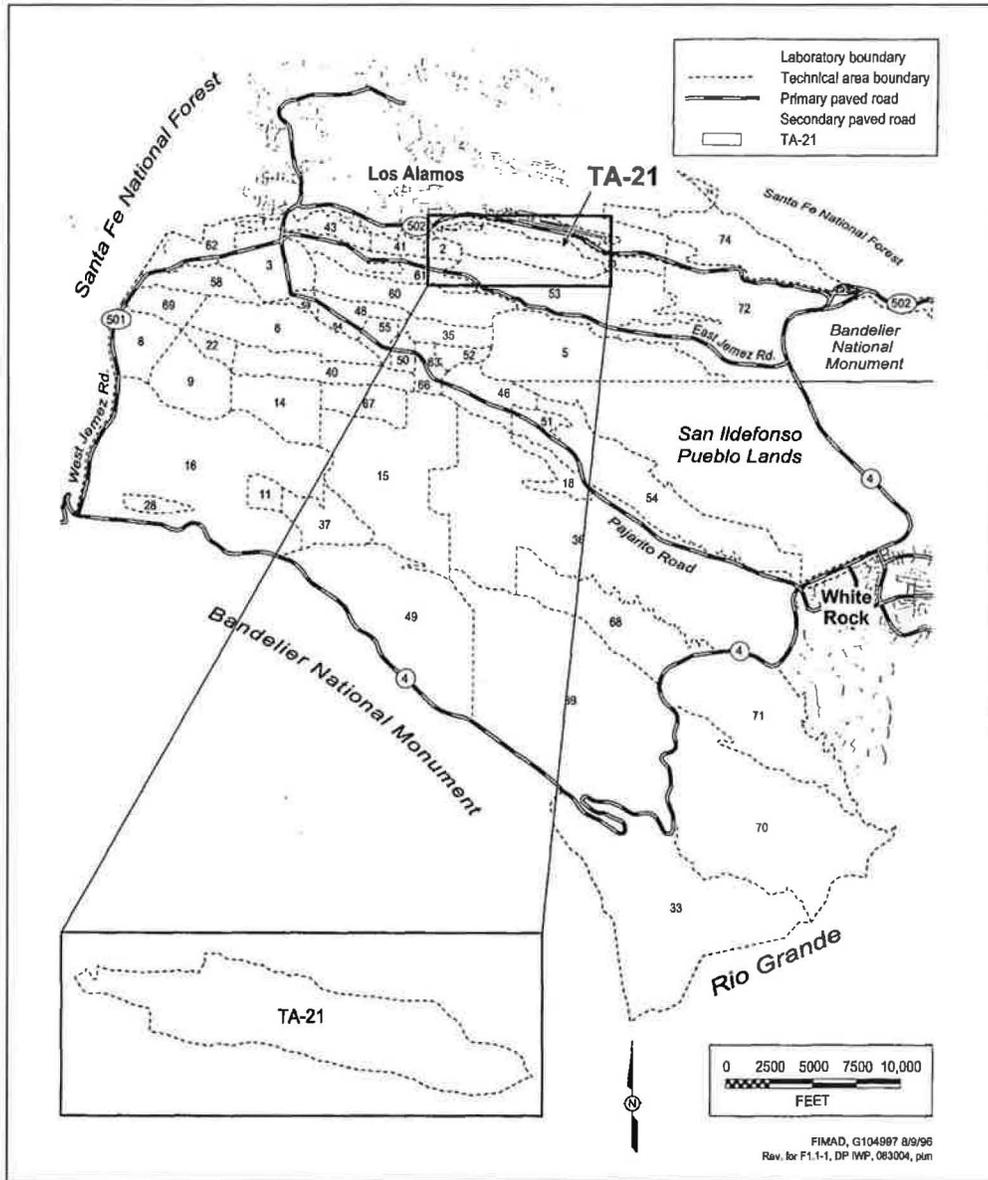


Figure 2.1-1 TA-21 DP East and West Location within the Los Alamos Area



TA-21 Site (1995)

Figure 2.1-2 Aerial View of TA-21 (view to northwest)

DP East and West Scope

Specific work scope for the DP East and West Subproject was identified in LANL Defense TA-21 DP East and West Recovery Act Project, Project Operating Plan (POP), Section 1. The POP provides a summary description of the work to be completed, as well as specific milestones for this subproject, of which all scope has been completed, refer to Attachment 1 - POP. At baseline definitization, the Total Project Cost identified in the POP was \$58.5-million; and the Performance Management Baseline Cost was identified as \$48-million. The POP identified the following subproject summary:

“DP West contains structures that were constructed from 1944 onwards for research and development of plutonium during and after the Manhattan Project and amount to approximately 107,000-sf of area. The purpose of these facilities was to produce metal and alloys of plutonium from the nitrate solution feedstock provided by other facilities. DP West was subsequently used for plutonium and uranium research and production through the late 1970s, by which time those activities were transferred to other facilities away from TA-21 and in the interim, the DP West structures became obsolete and no longer needed. In order to reduce Surveillance and Maintenance cost associated with managing obsolete nuclear facilities that have no further value, it was decided to D&D the structure, remediate the grounds and ultimately turn the area over to Los Alamos County for future development. DP East structures were used for polonium, actinide and tritium research. D&D of DP East involves demolition of two (2) large buildings and three (3) smaller buildings totaling approximately 50,000-sf of area. Cumulatively, these structures present a most visible and undesirable skyline to the public entering Los Alamos”

The DP West demolition scope consisted of demolishing buildings TA-21-2, -3, -4, -5, -80, -89, -116, -149, -150, -210, -312, -313, -314, -315, and -328 to the ground level slabs. The demolition subcontractor, ARSEC Environmental, LLC (ARSEC), performed the DP West demolition scope of work.

The DP East demolition scope consisted of demolishing buildings TA-21-152, -166, -167, -209, and -370 to sub-grade, including removing all sub-grade structures (with the exception of building 209, the basement was left in place) to a depth of 10 feet below final grade, and removing any contaminated soil above background, to depth of 10 feet below final grade, based on walkover radiological field screening scans. The demolition subcontractor, Innovative Technical Solutions, Incorporated (ITSI), performed the DP East demolition scope of work.

Specific milestones and schedule dates identified in the POP (Attachment 1), and listed below, were verified completed by the Los Alamos Integrated Project Team:

Project Operating Plan Monthly Milestones	Planned Date	Status Thru July 31, 2011
DP East		
Complete Clean Buildings D&D	Jan-2010	Completed on 12/21/2010
Complete Demolition of DP East Buildings	Oct-2010	Completed on 12/21/2010
D&D Closeout	Sep-2011	Completed on 7/31/2011
DP WEST		
Complete Clean Buildings D&D	Jan-2011	Completed – 12/21/2010
Complete Demolition of DP West Buildings	May-2011	Completed on 12/21/2010
D&D Closeout	Sep-2011	Completed on 7/31/2011

**LANL ARRA Sub Project -
LANL TA-21 Demolition of Delta Prime East and West Facilities**

Critical Decision 4

In addition to the specific milestones and summary schedule dates identified in the POP, the Office of Environmental Management also requires that milestones and schedule dates be identified within the Integrated Planning Accountability and Budgeting System (IPABS). For the DP East and West D&D Subproject, the following milestones were identified within IPABS, and have been verified as completed:

Milestone ID	IPABS Milestone Field Code	Milestone Name	Baseline Completion Date	Forecast Date	Actual Date
6040	VL-LANL-0040-D.R1-036	LANL TA-21 D&D EMRAP START	7/15/2009	7/23/2009	7/23/2009
6041	VL-LANL-0040-D.R1-037	Complete DPE BLDG 370	10/6/2009	10/13/2009	9/22/2009
6042	VL-LANL-0040-D.R1-038	Complete DPE BLDG 167	10/12/2009	11/18/2009	10/12/2009
6043	VL-LANL-0040-D.R1-039	Complete DPE BLDG 166	10/19/2009	1/4/2010	10/19/2009
6044	VL-LANL-0040-D.R1-040	Complete DPW BLDG 328	2/17/2010	1/4/2010	12/18/2009
6045	VL-LANL-0040-D.R1-041	Complete DPW BLDG 210	2/17/2010	1/4/2010	12/23/2009
6675	VL-LANL-0040-D.R1-059	Remove DPW BLDG 149 - Haz. Mat. & Asbestos Only	7/13/2010	7/13/2010	7/1/2010
7866	VL-LANL-0040-D.R1-067	Complete DPW BLDG 312/18	8/11/2010	8/11/2010	7/6/2010
6676	VL-LANL-0040-D.R1-060	Remove DPW BLDG 150 - Haz. Mat. & Asbestos Only	6/1/2010	7/15/2010	7/8/2010
6051	VL-LANL-0040-D.R1-047	Complete DPW BLDG 313	9/27/2010	7/30/2010	7/14/2010
6050	VL-LANL-0040-D.R1-046	Complete DPW BLDG 2/80	8/20/2010	8/20/2010	8/5/2010
6053	VL-LANL-0040-D.R1-049	Complete DPW BLDG 3	11/2/2010	11/2/2010	8/17/2010
6054	VL-LANL-0040-D.R1-050	Complete DPW BLDG 314	12/10/2010	10/30/2010	8/25/2010
6055	VL-LANL-0040-D.R1-051	Complete DPW BLDG 4	1/25/2011	1/25/2011	9/14/2010
6540	VL-LANL-0040-D.R1-058	Complete DPW BLDG 116	4/6/2011	4/6/2011	9/14/2010
6056	VL-LANL-0040-D.R1-052	Complete DPW BLDG 315	3/2/2011	3/2/2011	9/16/2010
6677	VL-LANL-0040-D.R1-061	Complete DPE BLDG 152	11/5/2010	11/5/2010	9/30/2010
6058	VL-LANL-0040-D.R1-054	Complete DPW BLDG 5	5/11/2011	5/11/2011	10/18/2010
7586	VL-LANL-0040-D.R1-065	Complete DPW BLDG 149	5/11/2011	5/11/2011	10/29/2010
7587	VL-LANL-0040-D.R1-066	Complete DPW BLDG 150	5/11/2011	5/11/2011	10/29/2010
6678	VL-LANL-0040-D.R1-062	Complete DPE BLDG 209	11/5/2010	12/21/2010	12/21/2010
13767	VL-LANL-0040-D.R1-001	Complete D&D of All TA-21 ARRA Buildings	1/15/2011	12/21/2010	12/21/2010
6710	VL-LANL-0040-D.R1-063	Complete DPE - Substructure Soil Remediation	6/2/2011	4/15/2011	3/31/2011
15094	VL-LANL-0040-D.R1.1-004	LANL TA-21 D&D EMRAP – FINISH – Completion of physical field work	8/1/2011	8/1/2011	3/16/2011
6060	VL-LANL-0040-D.R1-056	Complete Disposal of all Waste	8/31/2011	8/31/2011	7/29/2011
14929	VL-LANL-0040-D.R1.1-003	FPD Verification that DOE O 413.3A criteria are satisfied	8/5/2011	8/12/2011	
15098	VL-LANL-0040-D.R1.1-005	Submit Draft CD-4/Closure Package to HQ	8/30/2011	8/30/2011	
14928	VL-LANL-0040-D.R1.1-002	Final Approval of CD-4/Closure Package	9/30/2011	9/30/2011	

As required by DOE Order 413.3A, key performance parameters (KPPs) identified for the DP East and West D&D subproject are as follows:

Original KPP	Met	Discussion (include physical completion date)
Planning, mobilization and performance of hazardous material abatement and equipment removal of all DP East and West buildings	Yes	Hazardous material abatement and equipment removal was completed on February 17, 2011.
Structural demolition of above-grade structures for all the DP East and West buildings	Yes	Structural demolition of all above grade structures was completed on December 21, 2010
DP East: Remove and properly dispose of all slab and sub-slab structures (except the basement of building 209 will be left in place)	Yes	Removal and disposition of slab and sub-slab structures was completed on March 16, 2011
DP East: Remediate sub-structure soils based on clean-up criteria negotiated with the NMED and local stakeholders	Yes	Subsurface soil remediation was completed on March 11, 2011

Planned Baseline Scope, Cost, and Work Authorization

The detailed baseline scope and cost of the DP East and West Subproject was documented within the DP East and West Stimulus Program Office Support Task Scope Descriptions (TSD). The TSD were approved prior to initiating demolition and included the following information:

- Scope Description
- Deliverables
- Estimating Assumptions and Exclusions
- Risks to Project
- Estimate Stage and Method
- References/Legal Drivers
- Background and Specific Information
- Resource Dictionary
- Cost Estimate

The approved TSD supporting this subproject are included as Attachment 2.

Changes to the performance baseline were managed as described in the approved PEP, and baseline change control was documented as required. Changes were documented for review and approval in a Baseline Change Proposal (BCP). The DP East and West D&D Baseline Change Proposal Change Log is included in Attachment 3.

Work authorization for this subproject was performed using the TSD as part of the performance baseline. Authorization was completed in support of the subproject milestones and documented in a Work Authorization Document (WAD) which is included as Attachment 4.

Scope Completed and Verified as Complete

On December 21, 2010 the milestones supporting demolition of the DP East and West facilities, as identified in the POP, were verified as being completed. The final disposition of waste was verified as being completed on July 29, 2011. In support of achieving the KPPs, and milestones identified in the POP the following activities were completed:

- Rendered each building “cold and dark” – Included isolating and verifying that electric and other potential energy sources (e.g., steam lines, water, etc.) were disconnected.
- Remediated each building of hazardous materials (e.g., asbestos, polychlorinated biphenyls [PCBs], lead, etc.), and remove equipment containing radiological holdup material.
- Recycled uncontaminated equipment and systems, or salvaged where possible.
- Demolished all structures identified in the subproject, with the resulting waste disposed of based on characteristics, and acceptability of disposal site waste acceptance criteria (e.g., industrial waste [IND], low level waste [LLW], mixed low level waste [MLLW], etc.).
- Removed DP East and West structures.
- Eliminated future surveillance and maintenance cost associated with the DP East and West Facilities.
- Disposed of all waste generated. No hazard analysis is required post-demolition.
- Performed work under budget and met baseline schedule milestones, IPABS milestones, and POP milestones.

The remaining footprints (area beyond where the former DP East and West facilities occupied), are within the TA-21 site and are part of the Delta Prime (DP) Aggregate Site Work Plan. The scope of the DP Aggregate Site Work Plan is not part of ARRA work scope and falls within the scope of the base EM program under Soil and Groundwater Remediation and includes the completion of investigations and correctives measures evaluation and implementation at all SWMUs and AOCs in accordance with the March 2005 Compliance Order on Consent (Consent Order) with the New Mexico Environment Department (NMED). Upon completion of the DP Aggregate site work plan, the area may be considered for transfer as described in the *Final Site-Wide EIS for Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico, May 2008*. Long Term Surveillance and Maintenance needs for the greater TA-21 area DP will be determined as cleanup progresses in closing the EM sites within TA-21. The remaining closure activities will be completed per the Consent Order requirements and will be handled through the Base Program. Any further monitoring requirements will also be handled through the Base Program.

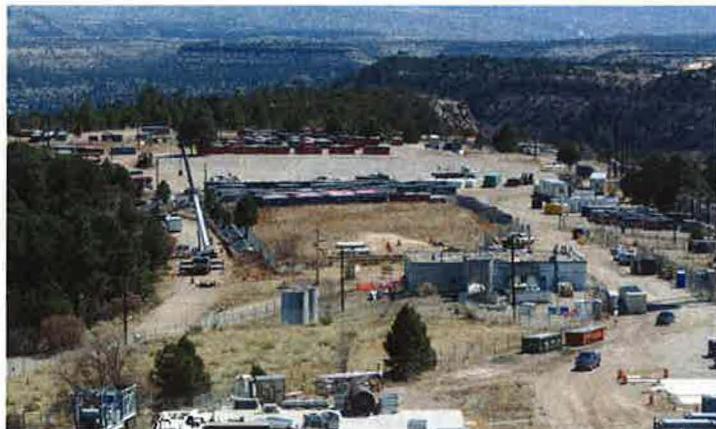
The DP East and West Subproject completed all project scope within the established baseline and met all KPP's. The following section provides a photographic summary of the project from inception to final site stabilization.

Photographic Summary of DP East and West Subproject

Photos included indicate demolition progress through completion.



TA-21 DP East before demolition



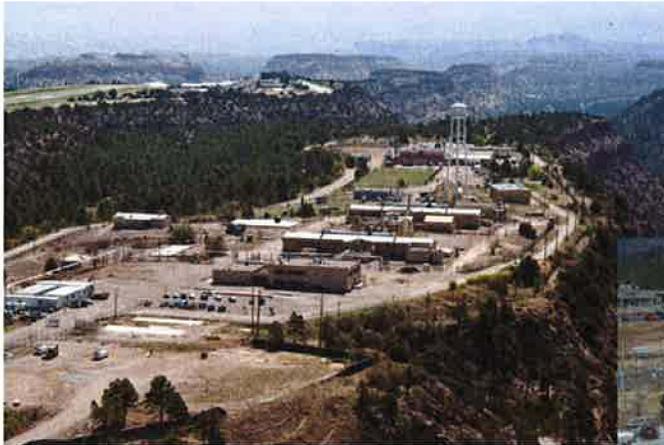
TA-21 DP East after demolition



TA-21-152 (DP East) before demolition



TA-21-152 (DP East) during demolition



TA-21 DP West before demolition



TA-21 DP West after demolition

Safety

The DP East and West Subproject has worked 68,433 hours without an injury or occurrence. LANS performed a local Verification for Readiness of the Demolition Subcontractor's Readiness to Proceed with Demolition Activities. This Verification Review was assumed in the planning documentation, and was completed as indicated. In addition to the safety oversight activities performed by LASO, LANS, and the Subcontractor, the EM ARRA safety representatives also performed a safety oversight function, the results of which were documented in the Recovery Act Readiness Evaluation (RARE) Checklist.

The DP East and West subproject utilized the Integrated Safety Management System (ISMS) process to ensure work was performed in a safe and compliant manner. All work was performed utilizing approved work documents developed under the LANL Integrated Work Document (IWD) process. The subcontractors were required to have an approved Environmental, Safety & Health (ES&H) plan, developed in accordance with 10 CFR 851, *Worker Safety and Health Program*, prior to commencing field activities.

In accordance with the approved subcontractor ES&H Plan and associated work control process, the subcontractors developed a set of clearly defined work steps linked to specific hazards and controls utilizing the IWD. In this process a single Person-In-Charge (PIC) was identified with the responsibility and authority to manage and coordinate work; Pre-Job Briefings were held by the PIC using IWD validation; field walk-downs were performed to validate tasks, steps, hazards and controls were appropriately identified and implemented.

The subcontractor was required to have a LANL-approved, full-time dedicated ES&H professional on-site, who worked closely with the LANS management professionals to implement and administer the subcontractor's approved ES&H Plan. In addition, the subcontractor was required to report and investigate all accidents, injuries and illnesses in accordance with 10 CFR 851.25(b), and analyze related data for trends and lessons learned in accordance with DOE O 225.1A, Accident Investigations. The subcontractors were required to ensure all workers were properly trained and qualified to safely perform all assigned tasks, with the appropriate Personal Protective Equipment (PPE) and utilizing accepted work management techniques. The subcontractor was required to demonstrate a "Zero Accident Performance" goal including zero non-permitted releases and zero regulatory non-compliance with respect to protection of the environment. There was one (1) first aid injury during this subproject in June 2010 in the DP East area. An ITSI employee sustained a minor scratch on his arm while performing radiological surveys. There was one (1) recordable injury in December 2010 in the DP West area. An ARSEC employee complained of a sore back after dragging a fire hose across a short distance of the worksite. The employee was examined by a physician at a Santa Fe medical facility; the physician administered prescription medication for a muscle strain and recommended physical therapy.

Hazard Categorization & Readiness Reviews

The D&D project was completed and no nuclear facilities remain. Therefore, readiness reviews are not required. All hazards are less than category 3.

Construction

No additional infrastructure was constructed in support of the DP East and West Subproject.

Quality

The DP East and West Subproject was a demolition project and unlike a construction project, there are few Quality Assurance (QA) requirements that apply to a demolition project. The following QA documents were referred to and utilized during the execution of the demolition scope:

- *LANL Quality Assurance Plan for the Environmental Programs Directorate*, EP-DIR-QAP-0001, R3 – Defines the controls necessary to comply with contractual and Federal quality requirements.
- *LANL Environmental Protection Division (ENV) Quality Assurance Plan (QAP)*, ENV-DO-POL-QAP.1, Rev1 - promotes formality in the execution of quality affecting activities performed by the ENV and ensures compliance with SD330 LANL QAPs.
- *ARSEC Quality Assurance Manual*, Revision 0 - certifies their QAP addresses the requirements of 10CFR 830 M , Subpart A, Quality Assurance Requirements; DOE O 414.1C, Quality Assurance; ASME NQA-1-200, Quality Assurance Program Requirements for Nuclear Facilities; and ISO/ASQ Q9001-2000, Quality Management Systems Requirements.
- *Innovative Technical Solutions Incorporated (ITSI) Document #PR-LA-ITSI-QA-002*, meets the requirements of 10 CFR 830.120, Subpart A and DOE O 414.1c.

ITSI and ARSEC were both small business subcontractors to LANS and performed the work scope in support of the completion of the DP East (ITSI) and West (ARSEC) Subproject.

Safeguards and Security

There were no reported security incidents or investigations associated with the DP East and West Subproject. The Subcontractors experienced no security issues. The security risks were managed as follows:

- All visitors to the site were required to sign in and out of the contractor's project office which was a lockable office trailer at the site entrance.
- Controlled areas were roped off and clearly marked.
- Lockable transportainers were used for secure storage of tools, supplies and small equipment.
- The site was left in a safe condition each day with equipment secured, locked and staged in a pre-determined safe area.
- An Operational Security Plan was submitted to the LANS TA-21 Operations Center and approved before the start of D&D activities.
- All work was controlled and administered through the TA -21 Operations Center.
- All operations were conducted according to LANL Policy - PO 210 "Cyber Security Program". A project specific Cyber Srecurity Plan was not required.

Permits and Licensing

The DP East and West Subproject was a demolition subproject, above-grade and below-grade structures were removed, and soil remediation performed, as necessary, per the authorized work scope. Since this was a demolition subproject as opposed to the construction of a new facility, operational permits and licensing were not required for purposes of transition or DP East and West Subproject closeout. In preparation for the demolition, a RAD-NESHAP Review of the TA-21 Remediation Activities was performed and documented in *Rad-NESHAP Review of TA-21 Remediation Activates, LA-UR-09-07922, LANL, ENV-EAQ*. This document summarizes compliance with 40CFR61 Subpart H requirements, and resulted in the addition of two new AirNet stations at the Los Alamos Airport in support of the entire ARRA Project and concluded that all requirements under 40 CFR 61 were met for the purpose of proceeding with demolition of the DP East and West Subproject. Storm Water Pollution Prevention Plans were administered and subcontractors complied with the requirements set forth in these plans for the DP East and West operations.

Operations and Maintenance Manuals

The DP East and West Subproject was a demolition subproject, above-grade and below-grade structures were removed, and soil remediation performed, as necessary, per the authorized work scope. Since this was a demolition project as opposed to the construction of a new facility, Operations and Maintenance Manuals are not required for purposes of transition or DP East and West Subproject closeout. However, in preparation for demolition, LANS prepared and executed procedures to ensure the safe practice of: identifying and de-energizing energy sources; removal of acidic waste lines/pipes; ensuring good radiation protection practices; penetration of walls and floors. These procedures were completed and utilized during demolition.

Manufacturer's Warranties

The DP East and West Subproject was a demolition subproject, above-grade and below-grade structures were removed, and soil remediation performed, as necessary, per the authorized work scope. Since this was a demolition project as opposed to the construction of a new facility, manufacturer's warranties are not required for purposes of transition or DP East and West Subproject closeout.

As-Built Drawings

The DP East and West Subproject was a demolition subproject, above-grade and below-grade structures were removed, and soil remediation performed, as necessary, per the authorized work scope. Since this was a demolition project as opposed to the construction of a new facility, As-Built Drawings are not required for purposes of transition or DP East and West Subproject closeout. However, Global Positioning System (GPS) surveys were completed and documented and information provided to the LANL EM Base Program.

Financial Summary

The DP East and West Subproject completed all scope within the established performance baseline cost and schedule. This financial summary addresses cost and schedule performance through completion of all field activities during the DP East and West Subproject. The scope of the DP East and West Subproject was to demolish and remove the structures, slabs, and sub-grade structures, perform soil remediation as necessary, perform final site grading, and disposition all resulting waste.

Once all the outstanding costs and invoices are realized and the TPC is solidified, any unexpended funding could be authorized for additional work scope identified in the POP. An operating activity has already been identified per the EM Execution Framework and this operational activity is the placeholder for unexpended budget authority. Future scope is most likely in support of remediation and/or investigation of process waste lines that serviced DP East and West facilities.

Cost Performance

Cost Performance Index (CPI)

The DP East and West Subproject to date (end of June, 2011) with a CPI of 1.01. DP East and West Subproject actual costs as of end of June 2011 are \$46,890,197.

Estimate at Completion (EAC):

The current EAC for the DP East and West Subproject to date (as of end of June 2011), through financial closeout is \$48.6 million. The EAC reflects remaining commitments, including LANS costs associated with the financial closeout activities.

Remaining Commitments:

As of July 29, 2011, all waste has been been disposed, remaining activities include final invoicing of all waste disposition costs.

Contingency Log:

Refer to the Appendix, BCP Control Log, Attachment 3, for a summary of the DP East and West Subproject contingency utilization. The DP East and West Subproject completed all work with zero (0) contingency funds.

Schedule Performance

The DP East and West Subproject was completed within the baseline schedule and all key milestones per the PEP were achieved. The Schedule Performance Index (SPI) was 1.0 at the end of June, 2011.

Environmental Management System

LANS continuously updates its EMS. The TA-21 ARRA Stimulus Project, EMS Toolkit Resource TR 2.22 and 2.23 are updated.

Lessons Learned

There were no accidents or incidents during the performance of the DP East and West work scope that resulted in an unusual occurrence or off normal report. There were however, some efficiencies noted in the execution of the DP East and West Subproject that are positive lessons learned to be provided as part of the post CD-4 requirements.

Final DP East and West Subcontractor Project Closeout Reports

The majority of this work was performed under subcontract to LANS. Final Subcontractor Project Closureout Reports have been prepared and approved by LANS. ARSEC submitted one Final Subcontractor Project Closureout Report for the DP West area. ITSI submitted two Final Subcontractor Project Closureout Reports for the DP East area, one report for the Building 152 cluster of buildings, and one report for the Building 209 cluster of buildings. Copies of these Final Subcontractor Project Closureout Reports are contained in Attachment 5.

Attachment Listing

- Attachment 1 - DP East and West Project Operating Plan (POP)
- Attachment 2 - DP East and West Stimulus Program Office Support Task Scope Description
- Attachment 3 - DP East and West Baseline Change Proposal Log
- Attachment 4 - DP East and West Work Authorization Document
- Attachment 5 – DP East and West Subcontractors Final Project Closeout Reports (Attached CD)
 - ARSEC Final Subcontractor Project Closureout Report for the DP West Area
 - ITSI Final Subcontractor Project Closureout Report for the DP East, Building 152 Cluster
 - ITSI Final Subcontractor Project Closureout Report for the DP East, Building 209 Cluster
- Attachment 6 – IPABS Reconciliation Sheet

References

1. Los Alamos National Laboratory American Recovery and Reinvestment Act (ARRA) Project, Project Execution Plan, Dated January 2010
2. *EM Recovery Act Program Portfolio Management Framework*, dated July 10, 2009
3. US Department of Energy (DOE) Order 413.3A, Program and Project Management for the Acquisition of Capital Assets
4. LANL Quality Assurance Plan for the Environmental Programs Directorate, EP-DIR-QAP-0001, R3 – Defines the controls necessary to comply with contractual and Federal quality requirements.
5. LANL Environmental protection Division (ENV) Quality Assurance Plan, ENV-DO-POL-QAP.1,Rev1 promotes formality in the execution of quality affecting activities performed by the Environmental protection Division (ENV) and ensures compliance with SD330 LANL Quality Assurance Plan (QAPs).
6. Rad-NESHAP Review of TA-21 Remediation Activates, LA-UR-09-07922, LANL, ENV-EAQ
7. Final Site-Wide EIS for Continued Operation of Los Alamos National Laboratory, Los Alamos, New Mexico, May 2008.