

INTERIM CHANGE NOTICE

1. Document Preparer

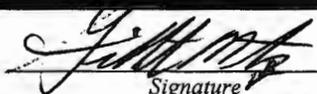
Document Number: **REPORT-DD-018, R.D. |** Document Preparer: **Gilbert Montoya**

Document Title: **TA-16-390 Basket Wash Facility Demolition Completion Report** Today's Date: **8/7/03**

Proposed Changes:

Page	Section	Change	Attach document with requested page change(s)
5		1. Documented cost change/final cost	
6		4. Added completion date.	
8		Added completion date and removal description of utilities	
10		Noted change in amount of linear feet of rinsate water troughs	
13		Added "ESH-ID Profile"	
		Added "through the LANL Contract Administrator"; explained agreement not to process change orders	

2. Team Leader


Signature

8/7/03
Date

3. AB Evaluation Qualified Screener—USQ Process

- a. Is this a change to programmatic operations and/or hardware that remains within the safety envelope of the approved hazard analysis for those operations? Yes No
- b. Is this change part of a corrective action for a discrepant as-found condition, and is the action a restoration modification (return to the original condition)? Yes No
- c. Is the change purely editorial/inconsequential and does not affect the technical content? Yes No
- d. Is the change solely related to the Green is Clean Process? Yes No
- e. Is the change related to operations that are non-nuclear in nature with sufficient separation? Yes No

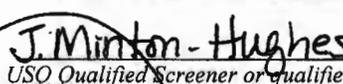
If the answer to any of the questions above is "Yes," the change does NOT require entering the USQ process

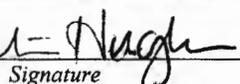
- f. Is this a change to the TSRs? Yes No

If the answer to the question above is "Yes," the change does not require entering the USQ process; however, does require DOE review and approval.

Result of USQ: USQS—Screened Out USQS—Negative USQD—Positive USQD Number:

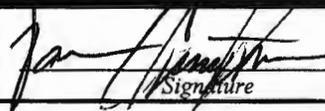
STOP: IF THE USQD IS POSITIVE, DOE APPROVAL IS REQUIRED FOR THIS DOCUMENT ACTION


USQ Qualified Screener or qualified designee


Signature

8/7/2003
Date

4. Group Leader


Signature

8/7/03
Date

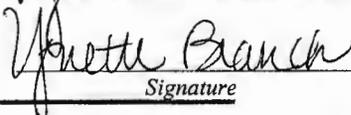
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8/7/03

b. Changes made to electronic copy and posted with signed ICN:


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8/7/03
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REPORT-DD-018, R.0.1

TA-16-390 Basket Wash Facility Demolition Completion Report

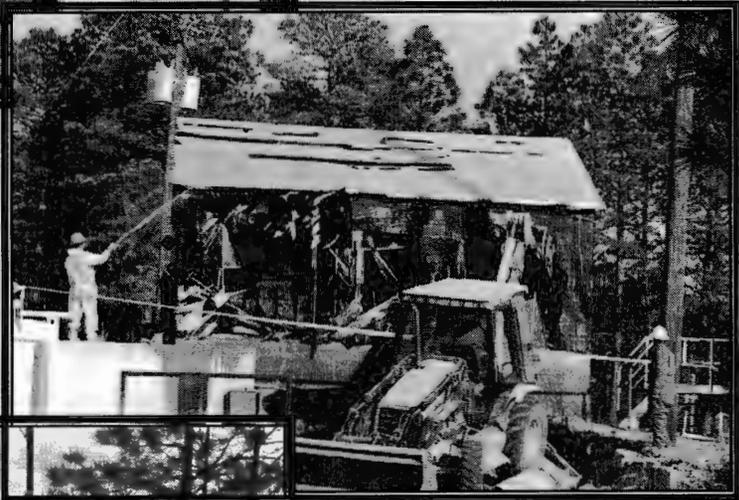
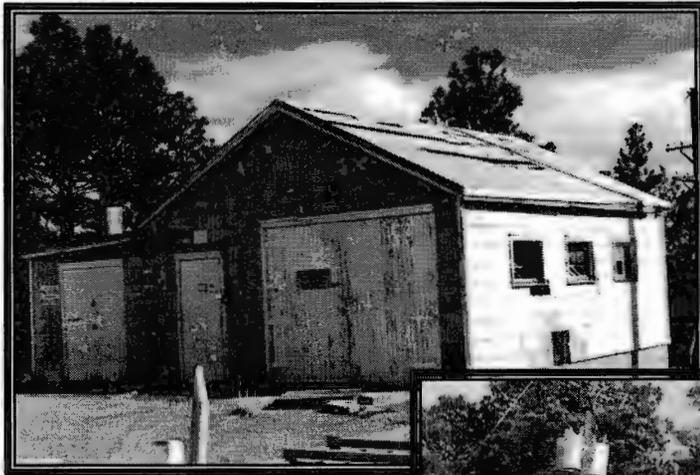
Process Owner	Signature	Date
Dan Broughton		

Team Leader	Signature	Date
Gilbert Montoya		

Authorizing Signature: Acting SWO Group Leader	Signature	Date
Davis Christensen		

HISTORY OF REVISIONS

Document Number	Issue Date	Action	Description
REPORT-DD-018, R.0	May 2003	New Document	
REPORT-DD-018, R.0.1	August 2003	Interim Change	Documented changes and added completion date of project.



TA-16-390 Basket Wash Facility Demolition
Completion Report

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EXECUTIVE SUMMARY

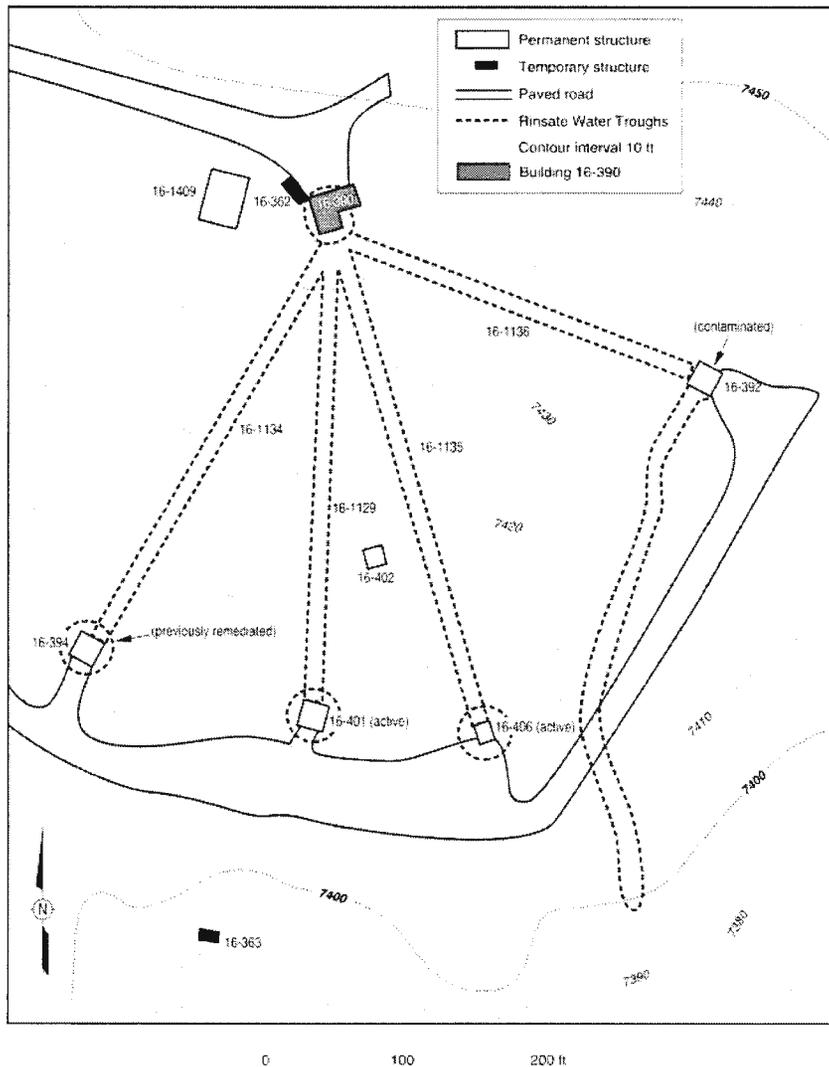
The TA-16 390 Basket Wash Project initially consisted of the removal of two structures (about 770 square feet) from the TA-16 Site and re-contouring of the site as necessary. However during the project, the local operating group, ESA-WMM, decided to keep one of the structures for future use. Consequently, the project consisted of the removal of only one structure (about 611 square feet).

Key project points:

1. The authorized funding level, acquired through Facilities & Infrastructure Re-capitalization Program (FIRP), was \$563,000. Total Project Cost was \$465,000. An RPA was submitted for the \$98,000 delta.
2. There were no accidents, incidents, or occurrences during execution of the project.
3. The Project recycled 97 cu yd of material through the demolition sub-contractor.
4. Demolition began on January 21, 2003. All physical work, including punch-list corrections and final waste shipment, concluded on March 12, 2003. This completed the project execution phase.

1.0 INTRODUCTION

Decontamination and demolition of the TA-16-390 Basket Wash Facility and the associated utilities began on January 21, 2003. All physical work, including punch-list corrections and final waste shipments, concluded on March 12, 2003. This completed the project execution phase. Minor modifications to the scope during the project did not increase the total cost. Building TA-16-390 (the main wash building) was successfully decontaminated and demolished, and abandoned mechanical/electrical support utilities and four above-ground rinsate water troughs were removed, as depicted below.



Location of TA-16-390 Basket Wash Facility and sand filter beds.

2.0 BACKGROUND

The TA-16-390 Basket Wash Facility was built in 1951 and is located within TA-16, the High Explosives (HE) Area Burn Grounds. The site covers approximately one acre and includes utilities and roads connecting the buildings. HE products were processed and handled inside the facility. Specifically, HE burn baskets were washed for re-use in the main building. Drainlines from the building conveyed aqueous HE residues from the basket washing activities for processing through sand filters.

The building was constructed of wood and sheathed with asbestos shingles. Several solid waste management units (SWMUs) such as drain lines, sand filters, and outfalls, were located at the site.

One sand filter pit (Structure TA-16-392) was addressed in this Project. The sand filter pit was used to burn off HE residue delivered to the pit via troughs. The HE residues trapped at the surface of the sand filters were ignited by an electric match and flash burned.

The TA-16-390 facility was deactivated in the early 1970s, and HE Basket washing activities were moved to other areas in TA-16. TA-16-390 has deteriorated from lack of maintenance and use. No future use of the facility has been identified.

3.0 SCOPE OF WORK

The statement of work for the TA-16-390 Basket Wash Facility Project was prepared as REPORT-DD-003. A copy of the report is contained in Appendix A.

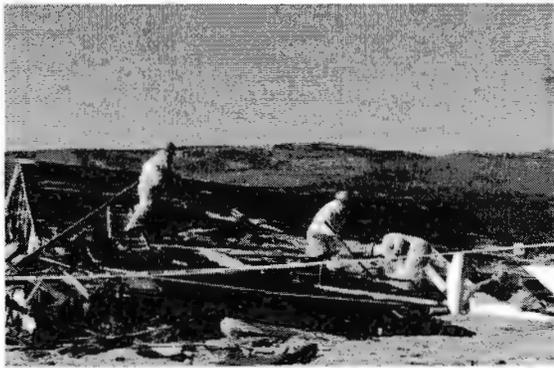
4.0 PROJECT DESCRIPTION

The notice of contract award was received on December 3, 2002, and contractor planning and pre-mobilization activities were initiated. Notice-to Proceed was issued on January 13, 2003 and field crews were mobilized on January 21, 2003.

Initial abatement activities were performed first. Asbestos contaminated wall panels were removed, and wood trim and doors contaminated with lead based paint were removed. This was done concurrently with the secondary-system electrical disconnection.



After this abatement phase, the building was demolished and the roof staged on the ground for asbestos roofing removal; this completed the abatement process.

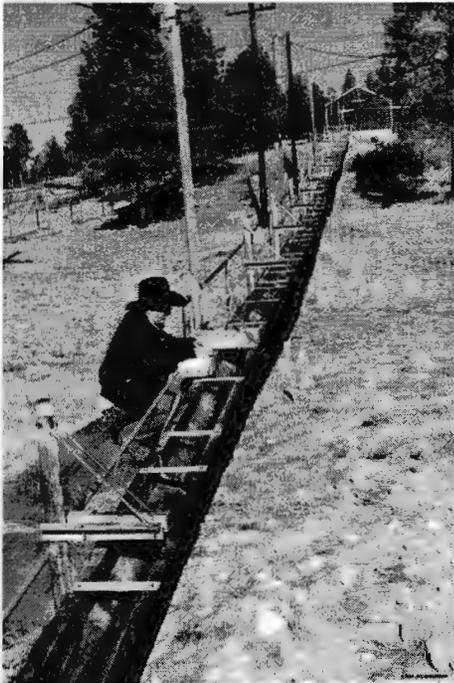


Demolition debris were then packaged, loaded, and trucked offsite for disposal.



The stem wall and slab were then demolished.

Next, approximately 1,000 lin ft (the original scope incorrectly estimated this volume, see page 12; however, no change order was requested by the contractor) of rinsate water troughs, that supported the basket washing operations, were dismantled, removed, staged, and transported offsite for recycling/salvage.



The footprint of Building TA-16-390 was then regraded and reseeded.

One TA-16 sand filter was addressed during the Project; this was Sand Filter TA-16-392. Note that two sand filters previously located onsite were demolished prior to this project, and two other existing sand filters were left in place and not included in this project. Characterization data for Sand Filter TA-16-392 identified solvent and depleted uranium contamination levels in excess of permissible release limits; it was determined not to disturb this pit. Sand Filter 16-392 will remain a Solid Waste Management Unit (SWMU) under the control of RRES-R.



The final waste shipment for the Project occurred on March 12, 2003, and the Project was officially closed on March 20, 2003.

5.0 SUMMARY OF HAZARDS

NOTE: To follow the ESH-ID Project Profile link (given below) to the listing for the Project, you must have a LANL identification number (Z Number), choose a password, select "ESH-ID INDEX," and use your browser to search for the ESH-ID Number, 02-0084.

A risk assessment of the project identified asbestos, HE contamination, and lead-containing materials as particularly important hazards. The risks were evaluated through the ESH-ID process. This data is included in the Project's [ESH-ID profile](#). Controls to minimize risks are specified in the Decommissioning Health and Safety Plan (DHASP) and the Site-specific Health and Safety Plan (SSHASP).

6.0 SAFETY

There were no safety incidents during the project.

7.0 SECURITY CONSIDERATIONS

The TA-16-390 Facility was located in a security area and inside a controlled area. Personnel were required to enter the area through Guard Post 431. Personnel were required to have either an "L" or "Q" clearance or be escorted with the appropriate documentation by a person with the appropriate clearance.

8.0 PROJECT MANAGEMENT/OVERSIGHT

This project was managed by the Facility & Waste Operations Division Solid Waste Operations–Deactivation & Decommissioning team (SWO-D&D). Washington Group International, Inc. (WGII) and its subcontractor (Coronado Wrecking & Salvage) were responsible for performing the actual demolition of the facility.

Responsible individuals on this project included:

SWO-D&D Group Leader	Ray Hahn
SWO-D&D Team Leader	Gilbert Montoya
SWO-D&D Project Leader	Dan Broughton
HSR-5, Health & Safety	Robert Baran
Waste Management Coordinator	Vince Rodriguez
Washington Group II Project Manager	Mark Shepard
Washington Group II Safety Officer	Jeff Geise

9.0 WASTE OPERATIONS

Waste streams generated and managed during this project included:

- Non-friable ACM transite and roofing
- Wood trim and entry/exit doors contaminated with lead-based paint
- Concrete debris
- Wood debris
- Scrap metals.

The estimated and actual volume of waste and recyclable materials and their disposal sites are specified below.

Waste Material	Disposal Site	Estimated¹ Volume	Actual² Volume
Non-Friable Asbestos Containing Material (ACM) from Transite and Roofing	Painted Desert regional Landfill, Joseph City, AZ	21 cu yd	10.5 cu yd
Wood framework contaminated with Lead-Based Paint	Clean Harbors, Grassy Mountain Facility, Knolls, UT	18 cu yd	20 cu yd
Scrap Metals	Albuquerque Metal Recycling, Albuquerque, NM (100% recycled)	7 cu yd	11.5 cu yd
Wood & Concrete Debris	Wood: 30 cu yd., Sandoval County Landfill, Rio Rancho, NM; Concrete: 90 cu yd, TA-16 S-Site Concrete Stockpile (100% recycled)	114 cu yd	120 cu yd

1 From spreadsheet file: "TA-16-390 Waste Volume" located in project files

2 Determined from TA-16-390 Waste Manifests provided in contractor's final report located in project files

10.0 SITE ANALYTICAL RESULTS

All waste materials and recyclables were visually examined and tested for residual HE contamination before being released from TA-16. Swipe samples taken from the aluminum sheeting and concrete debris from TA-16-390 tested positive with an HE spot-test kit. This confirmed results in the project characterization report. Additional HE contamination was discovered on wood debris from TA-16-390 and on overlapping sections of the aluminum troughs. In an effort to quantify the concentrations of HE present in and on these materials, extra samples of the wood debris, aluminum troughs, lead-painted boards, ACM, and concrete debris were collected and analyzed using a D-Tech sample kit. Analytical results indicated the presence of HE at less than 5 percent by volume, which qualified these materials for free-release (with the exception of the lead-based wood trim, which was disposed of as hazardous waste—see above chart). This allowed the materials to be handled as non-HE contaminated and to be disposed of through appropriate paths.

11.0 FINAL SITE CONDITION

The site was returned to prevailing local grade, seeded, and left as "open space." Note that the area immediately around Sand Filter TA-16-392 was not regraded.

12.0 COSTS

The total project cost and the total cost invoiced to LANL are provided below. Costs provided include burden (G&A and taxes).

Total Authorized Contract Amount: 563,000		
Initial Contract	\$113,215	
Change Orders (if any):	0	
LANL Burden	<u>3,804</u>	
Total Contract Cost:	\$117,019	\$117,019
<hr/>		
Project Management (PM) Costs:	\$44,855	
Other Costs*:	189,181	
Project Burden	<u>113,217</u>	
Total PM and Other Costs:	\$347,253	347,253
TOTAL PROJECT COST:		\$464,272
RESIDUAL FUNDS		\$98,000

*Other costs includes: State Historical Preservation Office, Storm Water Pollution Prevention Plan, Utility Mapping, Engineering, Characterization, and Utility Disconnects

The residual funds, \$98,000, were returned to the Facilities and Infrastructure Recapitalization Program (FIRP).

13.0 CHANGE ORDER DESCRIPTION

Scope deletions, modifications, and additions did occur during the project; however, these changes resulted in no net change in project costs.

ORIGINAL SCOPE

The original scope of this project included the following:

- Demolition and disposal of Building TA-16-390, the main HE wash building (approximately 611 ft²)
- Removal of the TA-16-362 Transporter
- Excavation and disposal of the TA-16-392 Sand Filter
- Demolition and disposal of the old incinerator concrete slab foundation
- Removal of approximately 670 lin ft of above-ground trough/trellis structures
- Excavation and disposal of approximately 980 lin ft of buried water line

SCOPE MODIFICATIONS

The following items were deleted and/or modified from the scope of the Project by the direction of the Project Leader, through the LANL Contract Administrator:

- The local operating group, ESA-WMM decided to keep the TA-16-362 Transportainer for future use.
- ESA-WMM decided to keep the old incinerator building slab and relocate a storage container there.
- ESA-WMM decided to keep approximately 30 lin ft of 3-in. abandoned conduit for future electrical feeds to the relocated structure.
- During D&D sampling, it was determined that the TA-16-392 Sand Filter Pit will remain under RRES-R management as a Solid Waste Management Unit. The solvent contamination levels currently exceed permissible release limits.
- A 50 lin ft section of buried water line will remain in place. Because this section is under the asphalt parking area in front of TA-16-390, it was determined that the removal of this section of line was cost prohibitive. This section of line will be included on the Project's as-built drawings.
- The compaction requirements for the TA-16-390 foundation area were reduced from 95 percent to 85 percent.

The following additions were made to the scope of the project:

- One additional roll-off container was provided for a period of about 3 weeks. The container was used to store wood debris from TA-16-390 until analytical results were available for residual HE contamination.

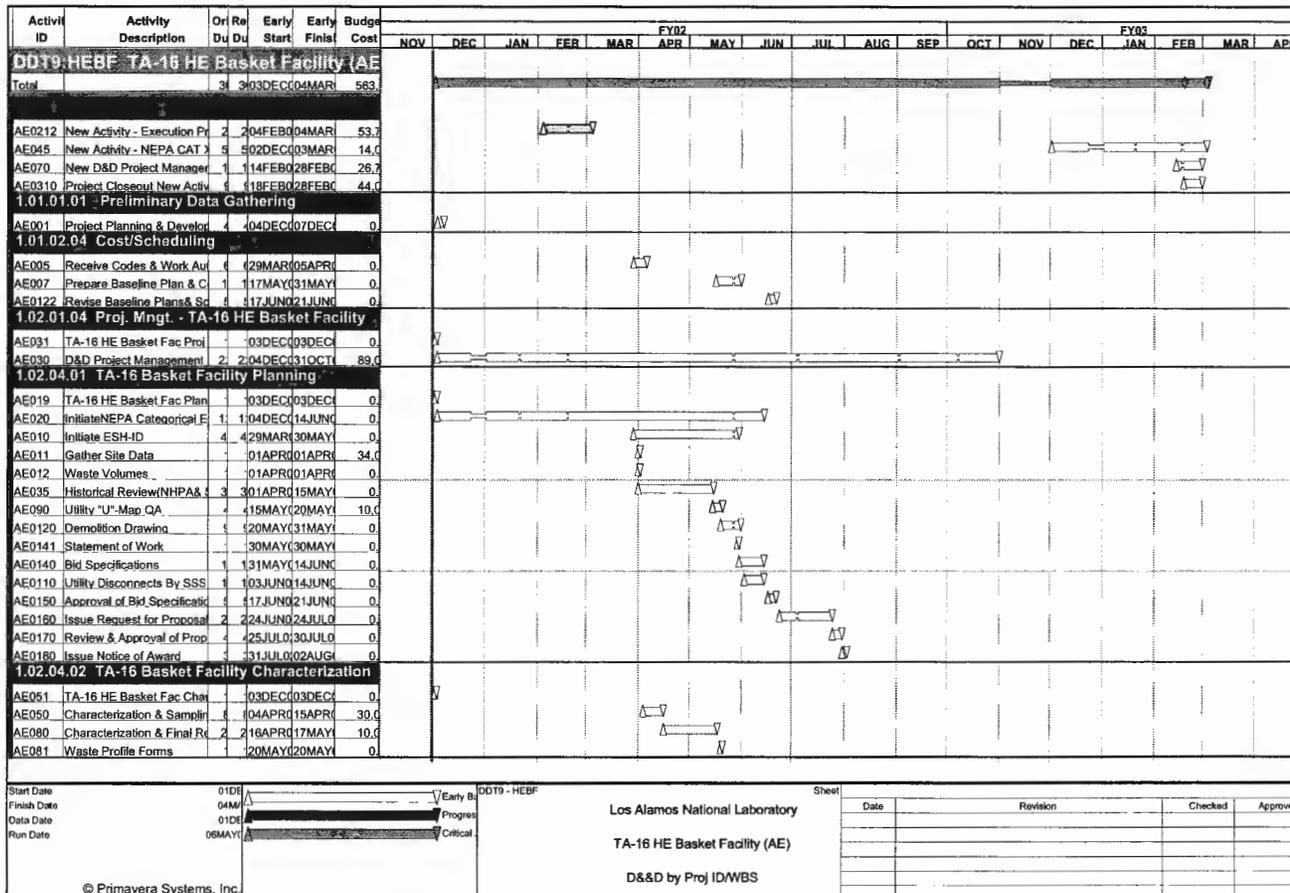
Extra samples were collected and analyzed for residual HE contamination on the wood debris, aluminum troughs, lead-painted wood boards, ACM, and concrete debris. The extra sampling and analytical testing caused minor delays in obtaining releases to remove the materials from the TA-16 site.

Based on offsetting costs between reductions and additions in scope, mutual agreement was reached between the LANL Contract Administrator, Project Leader, and Contractor to not process any associated change orders. The Contractor submitted formal documentation, as requested, for documentation purposes only. No change orders were generated or received for cost recovery.

14.0 PROJECT SCHEDULE PERFORMANCE

The original and final Project schedules are shown below.

Original Schedule:



Final Schedule:

Activity ID	Activity Description	Or Du	Re Du	%	Early Start	Early Finish	Budget Cost	FY02												FY03							
								NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR		
DDS9:HEBF TA-16 HE Basket Facility (A)																											
Total								519																			
1.01.01.01 Preliminary Data Gathering																											
AE001	Project Planning & Develop	4	0		104DEC	07DEC	0	[Gantt bar from Dec 4 to Dec 7, 2002]																			
1.01.02.04 Cost/Scheduling																											
AE007	Prepare Baseline Plan & C	1	0		101MAR	09APR	0	[Gantt bar from Mar 1 to Apr 9, 2002]																			
AE005	Receive Codes & Work Au	0	0		101APR	30APR	0	[Gantt bar from Apr 1 to Apr 30, 2002]																			
AE0122	Revise Baseline Plans & S	0	0		107FEB	13FEB	0	[Gantt bar from Feb 7 to Feb 13, 2003]																			
1.02.01.04 Proj. Mngt. - TA-16 HE Basket Facility																											
AE030	D&D Project Management	2	0		104DEC	04DEC	89.0	[Gantt bar from Dec 4, 2002 to Dec 4, 2003]																			
AE031	TA-16 HE Basket Fac Proj	0	0		101AUG		0	[Gantt bar from Aug 1, 2002 to Aug 1, 2003]																			
AE040	New D&D Project Manage	3	0		102DEC		50.0	[Gantt bar from Dec 2, 2002 to Dec 2, 2003]																			
AE060	Partial Removal D&D Proj	0	0		102DEC	02DEC	-26.7	[Gantt bar from Dec 2, 2002 to Dec 2, 2002]																			
AE0212	New Activity - Execution Pl	2	0		103JAN	06MAR	53.7	[Gantt bar from Jan 6, 2003 to Mar 6, 2003]																			
AE070	New D&D Project Manage	0	0		104MAR	04MAR	26.7	[Gantt bar from Mar 4, 2003 to Mar 4, 2003]																			
1.02.04.01 TA-16 Basket Facility Planning																											
AE020	Initiate NEPA Categorical E	1	0		104DEC	29AUG	0	[Gantt bar from Dec 4, 2002 to Aug 29, 2003]																			
AE011	Gather Site Data	0	0		101APR	01APR	34.0	[Gantt bar from Apr 1, 2002 to Apr 1, 2002]																			
AE012	Waste Volumes	0	0		101APR	03MAY	0	[Gantt bar from Apr 1 to Apr 3, 2002]																			
AE010	Initiate ESH-ID	4	0		112APR	13MAY	0	[Gantt bar from Apr 12 to May 13, 2002]																			
AE035	Historical Review(NHPA&	3	0		103JUN	23AUG	0	[Gantt bar from Jun 3, 2002 to Aug 23, 2002]																			
AE090	Utility "U"-Map QA	0	0		103JUN	14JUN	10.0	[Gantt bar from Jun 3, 2002 to Jun 14, 2002]																			
AE0110	Utility Disconnects By SSS	1	0		111JUL	26SEPT	0	[Gantt bar from Jul 11, 2002 to Sep 26, 2002]																			
AE0120	Demolition Drawing	0	0		101AUG	23AUG	0	[Gantt bar from Aug 1, 2002 to Aug 23, 2002]																			
AE019	TA-16 HE Basket Fac Plan	0	0		101AUG		0	[Gantt bar from Aug 1, 2002 to Aug 1, 2003]																			
AE0140	Bid Specifications	1	0		114AUG	21AUG	0	[Gantt bar from Aug 14 to Aug 21, 2002]																			
AE0150	Approval of Bid Specificat	0	0		1021AUG	26AUG	0	[Gantt bar from Aug 21 to Aug 26, 2002]																			
AE0160	Issue Request for Proposa	2	0		126AUG	15OCT	0	[Gantt bar from Aug 26 to Oct 15, 2002]																			
AE0141	Statement of Work	0	0		129AUG	29AUG	0	[Gantt bar from Aug 29 to Aug 29, 2002]																			
AE0170	Review & Approval of Prop	0	0		130OCT	31OCT	0	[Gantt bar from Oct 30 to Oct 31, 2002]																			
AE0180	Issue Notice of Award	0	0		103DEC	03DEC	0	[Gantt bar from Dec 3, 2002 to Dec 3, 2002]																			
AE045	New Activity - NEPA CAT	0	0		105DEC	07DEC	14.0	[Gantt bar from Dec 5, 2002 to Dec 7, 2002]																			
1.02.04.02 TA-16 Basket Facility Characterization																											
AE050	Characterization & Samplir	0	0		101APR	28MAY	30.0	[Gantt bar from Apr 1, 2002 to May 28, 2002]																			
AE080	Characterization & Final R	2	0		103JUN	27JUN	10.0	[Gantt bar from Jun 3, 2002 to Jun 27, 2002]																			
AE051	TA-16 HE Basket Fac Cha	0	0		101AUG		0	[Gantt bar from Aug 1, 2002 to Aug 1, 2003]																			
AE081	Waste Profile Forms	0	0		103DEC	07FEB	0	[Gantt bar from Dec 3, 2002 to Feb 7, 2003]																			

Start Date	01DE	Early B	DDS9 - HEBF	Sheet	Date	Revision	Checked	Approved
Finish Date	02M	Progress	Los Alamos National Laboratory					
Data Date	01M		TA-16 HE Basket Facility (AE)					
Run Date	06MAY	Critical	D&D by Proj ID/WBS					

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15.0 LESSONS LEARNED

During the planning phase, characterization was performed on the Basket Wash Facility to determine if high explosive (HE) contamination was present and—if present—the quantitative levels of contamination. Walls, doors, ceiling, floors, roof, and siding were evaluated. Sampling for HE was not performed inside the wall structure; samples were taken only from the wood frame substrate that supports the wallboard (sheetrock).

After the building was demolished and loaded for transport, an HE release swipe was performed by the Certifying Agent (CA). (The CA is an individual trained and certified by the Weapons Material Management Group in HE evaluation and has authority to release clean materials.) The HE spot test swipe indicated HE was present. To determine if the material qualified for free release, a quantitative analysis was performed to determine if the level of contamination was less than 5% by volume—the free release threshold. The material did qualify for free release.

Lesson learned: Sampling behind or underneath substrates should be considered a part of initial characterization. A cost/benefit analysis should be performed in making this decision.



HE Spot Test on various demolition debris.

16.0 ACKNOWLEDGEMENTS

We would like to thank the following people for their work and efforts during the project:

Washington Group International, Inc. and their subcontractors

Technical Assistance – Taunia Wilde, Stoller Corporation

Illustrations and photography – Patricia Leyba

Technical editing – Dr. Bruce Swanton

Safety – Dr. Robert Baran

Budget Analysis – Angelic Trujillo

17.0 ACRONYMS AND ABBREVIATIONS

ACM	Asbestos Containing Material	RRES	Risk Reduction and Environmental Stewardship Division
D&D	Deactivation and Decommissioning		
DHASP	Decommissioning Health and Safety Plan	SSHASP	Site-specific Health and Safety Plan
ESA-WMM	Engineering, Science, and Application-Weapons, Materials, and Manufacturing	SWMU	Solid Waste Management Unit
ESH	Environment, Safety, and Health	SWO	Solid Waste Operations
LANL	Los Alamos National Laboratory	SWO-D&D	Solid Waste Operations Group-D&D
LAUR	Los Alamos Uncontrolled Release	TA	Technical Area

18.0 APPENDICES

Appendix A. Statement of Work

Appendix B. Additional Photographs

APPENDIX A. STATEMENT OF WORK

1.0 PURPOSE AND OBJECTIVE

The proposed project includes the demolition, removal, and disposal of all rubble and wastes at the TA-16-390 Basket Washing Facility (TA-16-390 Complex). The Complex consists of a high-explosive basket washing facility, a transportainer, and a sand filter facility. Building 390 consists of wooden walls sheathed with asbestos shingles. The transportainer is a modified ISO (International Standards Organization) shipping container with a hinged top and was used to transport the baskets from the generating sites to the Complex and was also used to stage the baskets for processing. The sand filter consists of a sand filter pit connected to an industrial waste drain. The sand filter was used to trap the solids (primarily HE) in the basket washing waste water. No future use for these facilities has been identified. Table 1 provides a list of these buildings and structures.

TABLE 1. HE Basket Wash Facility and Storage Transportainer

Building	Description	Size (Sq. Ft.)
390	HE Basket Washing Facility	611
362	Waste Transportainer	160
392	Sand Filter	100

The site covers approximately one acre with utilities and roads connecting the buildings. The complex was built in 1951. High explosive products were processed and handled inside the facility. HE burn baskets were washed for re-use within the main building. Building 390 is deteriorating since minimal funds have been allocated for their surveillance and maintenance.

Potential release sites (PRS) exist within the building footprint, with drain lines, sand filters, and outfalls at this site. The PRSs are identified in the bid documents. Soil disturbance is to be minimized in the PRS areas.

- 1.1 In preparation of this bid package and demolition, the Contractor's Basic Ordering Agreement (BOA) on file is also applicable to this Project.
- 1.2 The following Drawings, Plans, Reports, Specifications, Standards, and equipment shall also be used in preparation of the bid package and demolition.

1.2.1 Drawing NO.C53395 Sheets:

- 1.2.1.1 G-0001, Tile Sheet, Rev. 0, dated 8/21/02
- 1.2.1.2 G-1002, General Notes, Rev. 0, dated 8/21/02
- 1.2.1.3 General Notes contain TA-16-390 construction drawing for reference
- 1.2.1.4 C-1001, Civil/Structural Plan, Rev.0, dated 8/21/02

-
- 1.2.1.5 C-1002, Water Utilities Plan, Rev.0, dated 8/21/02
 - 1.2.1.6 C-1003, Proposed Grading Plan, Rev.0, dated 8/21/02
 - 1.2.1.7 C-1004, Crusher Site Plan, Rev.0, dated 8/21/02
 - 1.2.1.8 E-1001, Electrical Plan, Rev.0, dated 8/21/02
 - 1.2.1.9 T-1001, Telecommunications Plan, Rev. 0, dated 8/21/02
 - 1.2.2 Eberline Services Characterization Report for D&D Activities, TA-16-390 Complex, dated June 2002
 - 1.2.3 The Contractor's Site Safety Officers Qualification Form
 - 1.2.4 Storm Water Pollution Prevention Plan, Rev. O, dated August 2002
 - 1.2.5 NMED Decommissioning Notification, 20 NMAC 2.78 and 40 CFR § 61.145, by Contractor
 - 1.3 Los Alamos County and New Mexico gross receipts taxes shall be included in the Basic Ordering Agreement Contractor (Contractor) total price.
 - 1.4 All work shall be completed within 90 calendar days after notice to proceed.
 - 1.5 The Contractor may offer an alternate proposal for the work if the proposal would result in an expedited schedule or cost savings to the Laboratory in addition to the request bid proposal.
 - 1.6 The Contractor is to notify the Contract Administrator if any requirement would prevent the decommissioning work from being completed in the manner proscribed in this Statement of Work.
 - 1.7 The Contractor is responsible for compliance with Federal and State laws, and DOE and Laboratory requirements that may apply to the work.
 - 1.8 No Photography by Contractor.
 - 1.9 The Contractor's plans and permits shall be posted in the Contractor's Office Trailer with copies in the Contractor's Project file.
 - 1.10 Failure by Laboratory Project, Safety, or Quality personnel to enforce the requirements of this Statement of Work does not release the Contractor from complying with the requirements of this Statement of Work.

2.0 SAFETY & QUALITY ASSURANCE

- 2.1 The Contractor shall develop a Site-Specific Health and Safety Plan (SSHASP) for the Project and for site characterization work. The plan must comply with Laboratory Integrated Safety Management (ISM) LAUR-98-2837.

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- 2.2 The Contractor shall provide a fully dedicated Site Safety/Quality Assurance Officer.
 - 2.3 Portable/Mobile equipment shall be equipped with spark arrestors as required and shall be permitted.
 - 2.4 The Contractor agrees that procedures, daily activity logs, permits, equipment, processes, and personnel PPE will be inspected by D&D Project Safety and Quality Assurance personnel and that D&D Project Personnel will be granted access to the active Project site.
 - 2.5 With the concurrence of the SWO D&D Project Leader, HSR-5 D&D IH/Safety and Quality personnel have the authority to instruct the Contractor to change equipment, personnel PPE, and Project site conditions that fall within this Statement of Work (Safety and Quality Assurance). HSR-5 D&D IH/Safety and Quality personnel will submit a written report to the D&D Project Leader with copies to the Contractor.
 - 2.6 HSR-5 D&D IH/Safety and Quality personnel have the authority to stop Project work as it relates to safety and quality without cost to Laboratory if due to non-conformance to this Statement of Work.
 - 2.6.1 Corrective action required by non-conformances requiring a change to procedures, equipment, personnel PPE, and to project site conditions beyond this Statement of Work, shall require a change order.
 - 2.6.2 Change orders shall be submitted to the D&D Project Leader for approval.
 - 2.7 The Contractor shall inform its personnel that they have the authority to stop Project work related to safety pursuant to LIR 401-10-01, "Stop Work and Restart."
 - 2.8 The Contractor and its personnel will not argue nor interfere with HSR-5 D&D IH/Safety and Quality personnel.
 - 2.8.1 All disputes are to be handled by the Contractor's management and the D&D Project Leader and/or Contract Administrator.
 - 2.9 The Contractor shall provide equipment and personnel to control Project demolition and rock crushing equipment emissions in accordance with OSHA, NMED, and Laboratory standards.
- 3.0 WORK SCOPE AND APPROACH**
- 3.1 The Contractor shall maintain a Project file (File) at the work site.
 - 3.1.1 The File shall be indexed and be tabbed. All documents inserted into the File shall be clear and legible.
 - 3.2 The Contractor to provide all personnel, materials, facilities, equipment, fuel, PPE, and sanitary facilities for the Project.
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- 3.3 The Contractor shall acquire a permit from the State of New Mexico Environment Department (NMED) for rock crushing equipment.
- 3.4 The Contractor shall provide a list of all generators used in the Project to the SWO D&D Project Leader, listing the serial number, make, capacity, fuel type (diesel or gasoline), and fuel consumption rate.
 - 3.4.1 Generators and compressors shall require spark arrestors and approved S-Site Special Work Permits (SWPs).
 - 3.4.2 The Contractor shall maintain records of the hours of on-site use and submit these records to the Laboratory in the Project Final Report.
- 3.5 The Contractor will have access to the Laboratory off-Project facility for lunch and breaks.
- 3.6 The Contractor shall provide controlled personnel transportation and Project Security Escorts for personnel while in the Project work area.
 - 3.6.1 Security escorts shall be required at a ratio of one security escort for every five uncleared personnel at the Project work site.
 - 3.6.2 The Laboratory will provide access control through PTLA Security at the designated gate entrance.
- 3.7 No smoking will be permitted within the Project work area. Smoking is permitted only in Laboratory-approved, designated locations outside the Project work area.
- 3.8 The Contractor shall provide potable and construction water for the Project.
 - 3.8.1 Potable water locations within the Project work area will be determined by the SWO D&D Project Leader and the SWO D&D IH/Safety Engineer.
- 3.9 The Contractor shall give the Laboratory 48-hr notice before any utility outage.
- 3.10 The Contractor shall provide any needed waste disposal containers.

NOTE: The Initial site characterization for the Project is completed and is included in the Statement of Work package.

- 3.11 The Contractor shall not start Demolition until hazardous materials abatement [as reported in Characterization Report for the TA-16 390 Complex , dated June 2002] is completed and Laboratory analysis/inspections are completed to ensure the hazard has been removed.
- 3.12 The Contractor shall be responsible for Post Abatement testing.

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- 3.12.1** Results of hazardous materials abatement shall be documented with copies to the SWO D&D Project Leader for review and approval.
- 3.13** The Contractor shall not backfill areas of foundation removal from building TA-16-390 and the old incinerator pad adjacent to structure 362 without approval from the D&D Project Leader.
- 3.13.1** The Contractor shall perform final site release surveys before backfilling.
- 3.13.2** The Contractor shall utilize "Characterization Report for the TA-16 390 Complex (Basket Washing Facility), (Buildings 16-390, 16-362, and 16-392) dated June 2002), for identification of hazards.
- 3.13.3** The Contractor shall compact backfill to 90%.
- 3.13.4** The Contractor shall follow the requirements of the provided "Storm Water Pollution Prevention Plan," Rev. O, dated August 2002 for the Project.
- 3.14** The Contractor is responsible for producing and delivering to the State NMED a Notice of Intent (NOI) as described in "Deactivation & Decommissioning (D&D) Small Projects Storm Water Pollution Prevention Plan with Addendum for TA-16-390 Complex /Water Line Removal."
- 3.15** The Laboratory will disconnect all utilities at the main point of connection leading into the scoped structures. Refer to the Laboratory drawing for the final utility configuration. However, the Contractor's SSHASP shall contain provisions for verifying that all connections are dead to avoid accidents related to unknown cross connections.
- 3.16** Laboratory oversight and management will:
- 3.16.1** Review personnel records.
- 3.16.2** Approve of all project plans.
- 3.16.3** Observe and audit field activities.
- 3.17** The Contractor and Laboratory shall perform a Readiness Review before a Notice to Proceed is issued to the Contractor.
- 3.17.1** The Readiness Review will ensure that all documentation, plans, and permits are complete, approved, and in place.
- 3.17.1.1** During the Readiness Review, the Project Statement of Work shall be reviewed.
- 3.17.2** The Readiness Review shall include the Contractor's Project, Safety, Quality & Waste Personnel, Laboratory Contract Administrator, SWO D&D Project Leader, HSR-5 IH/Safety/Quality, and Laboratory Waste management personnel.

- 3.17.3** The Laboratory will give the Contractor notice to proceed within 5 working days of successful completion of the readiness review. No mobilization shall be permitted before the Contract Administrator issues the Notice to Proceed.
- 3.17.4** Failure of the Contractor to comply with the requirement of the Readiness Review will delay the Notice to Proceed and shall be at no cost to the Laboratory.
- 3.18** The Contractor shall be responsible for any needed traffic control for access onto the decommissioning site.
- 3.19** The Laboratory will mark all underground utilities before the start of any excavation activity as defined in LIR 402-880-01.
- 3.20** All buried piping is to be removed to the designated cutoff point
- NOTE:** The Statement of Work package includes drawings which identify the utilities which the Contractor shall remove.
- 3.21** Spark- or flame-producing activities require an approved special work permit. Contact the D&D Project Leader for assistance.
- 3.22** The Laboratory will be responsible for obtaining any required excavation permits.
- 3.23** Upon completion of the work, the disturbed work site shall be graded to match the existing contours and:
- 3.23.1** Re-seeded where existing vegetation has been disturbed by Project operations.
- 3.23.2** Upon receipt of the final site survey analysis, the Contractor may complete site remediation. Limits will be determined from survey results.
- 3.23.3** The Contractor shall use "Characterization Report for the TA-16 390 Complex, Buildings 16-390, 16-362, and 16-392," dated June 2002), for identification of hazards.
- 3.23.4** The Contractor shall provide personnel and equipment for any additional D&D services required by final site release survey.
- 3.23.4.1** The Contractor shall submit change orders for this additional service.
- 3.24** The Laboratory reserves the right to inspect, verify, test, and/or witness Contractor's production, testing, abatement, characterization, training, and any process related to the Project at cost to the Laboratory.
- 3.24.1** The Contractor's production, testing, abatement, characterization, training, and any process related to the Project that are found not to comply with this Statement of Work shall be corrected by the Contractor at cost to the Contractor.

4.0 SCHEDULE

1.1 The Project schedule shall initiate an 8-hr work schedule, working 5 days a week. Work hours will start between 7:00 to 8:00 AM and end between 3:30 to 4:30 PM, or as agreed with the D&D Project Leader.

4.1.1 Overtime hours shall require 24-hr advance notice to ensure proper security access and coverage.

1.2 The Contractor shall develop the baseline Project schedule using Primavera Project Planner-P3 and submit it for review and approval by the SWO D&D Project Leader before the Project Readiness Review.

4.2.1 The schedule shall detail all structures and systems slated for D&D.

4.2.1.1 The schedule shall be consistent with the schedule of values submitted for progress payment for this Project.

1.3 The Contractor shall propose a standby rate based on its typical work crew staff and equipment for an 8-hr workday.

5.0 TRAINING AND BADGING

5.1 The Contractor's personnel shall receive GET (General Employee Training), Site Specific training, and badging before starting work activities.

5.1.1 All Contractor's personnel shall be US citizens.

5.1.2 Training and badging should take 16 hours per man.

5.1.3 The Contractor shall submit the names and Social Security Numbers of personnel who will receive GET and Site-specific training and who will require badging within 10 working days of the receipt of the Notice of Award from the SWO D&D Project Leader.

5.1.4 If the Contractor's personnel fail initial GET training, the man-hours for re-training and testing shall be at cost to the Contractor.

5.1.5 The Contractor shall certify the qualification of its Site Safety Officer (SSO) by completing the SSO qualification form and returning the completed form to the D&D Project Leader with a copy for the Project file.

5.1.5.1 HSR-5 D&D Safety will provide the form. (See the attached HSR form.)

5.1.5.2 This form will be completed and submitted 15 working days before the Readiness Review to SWO D&D Project Leader.

5.1.6 The Contractor shall certify that workers have the training required to meet the requirements of its Site-Specific Health and

Safety Plan (SSHASP) for the Project before the workers starts production activities.

5.1.6.1 This Contactor will provide signed and -dated personnel training certification. Certification will include the person's name, Z number, type of training, and date of training.

5.1.6.2 The Contractor shall maintain copies of training records and certifications in the Project file at the work site for review by the SWO D&D Project Leader, IH/Safety, and Quality Assurance personnel.

5.2 During the Pre-Job Demolition meeting, the Contractor shall:

5.2.1 Train its personnel regarding all areas related to the Contractor's Safety/Quality programs, operational requirements, and Project schedule.

5.2.2 Inform personnel that the Contractor has agreed to and accepted the inspection of procedures, equipment, processes, personnel PPE, and the Project site by D&D Project personnel (Safety and Quality Assurance) during the Project.

5.2.3 Inform its personnel that they have the authority to stop work of the Project as it relates to safety according to LIR 401-10-01.

5.2.4 Train personnel regarding security requirements for the Project.

5.2.5 Brief personnel on the final disposition of equipment, including what the sub-contractor is responsible for, and shall specify which salvaged equipment is owned by the Contractor.

5.2.6 Personnel are to be instructed not to dismantle any equipment without written approval by their supervisor.

5.2.7 Introduce the SWO D&D Project Leader and Safety/Quality Assurance personnel to its workers.

5.3 The Contractor and its personnel will not argue or interfere with HSR-5 D&D IH/Safety and Quality Assurance personnel.

5.3.1 All disputes shall be handled by the Contractor's management and the SWO D&D Project Leader and /or the Contract Administrator.

6.0 MEETINGS AND PROGRESS REPORTS

6.1 Weekly Meetings

6.1.1 The Contractor shall attend weekly D&D Project status meeting. The Contractor shall submit weekly written production reports to the SWO D&D Project Leader. These reports shall address all areas of the Project in production.

- 6.1.2** The report will contain as a minimum:
 - 6.1.2.1** Report date
 - 6.1.2.2** Production to date with percent complete D&D for each structure/system
 - 6.1.2.3** Any potential change orders
 - 6.1.2.4** Work planned for next reporting period
 - 6.1.2.5** Problem areas in the Project
 - 6.1.2.6** Actions taken to correct the problems
 - 6.1.2.7** Status of all previous outstanding problems
 - 6.1.2.8** Areas requiring assistance from the SWO D&D Project Leader
 - 6.1.2.9** The Contractor's concerns
 - 6.1.2.10** The signature of the Contractor's Project Manager
- 6.1.3** The Contractor shall also submit the adjusted P3 schedule for that week detailing the changes to the Project. Any negative variance in the Project schedule shall be addressed and the corrective action taken by the Contractor to maintain Project schedule shall be specified.
- 6.1.4** At the discretion of the SWO D&D Project Leader, weekly production meeting may be cancelled when necessary.
- 6.1.5** Weekly written progress reports and P-3 updates shall still be required.
- 6.1.6** The Contractor shall maintain and update the Project file at Project site. Copies of all submittal, plans, training, reports, schedule and safety/quality documentation for review by D&D Project personnel.
- 6.1.7** The Contractor shall perform a daily briefing with workers to address safety associated with daily Project activities before the start of each shift. This briefing shall also occur before the start of any new activity.
 - 6.1.7.1** Project hazards and their mitigation shall be discussed.
 - 6.1.7.2** Daily Safety Briefings shall be documented with copies to the Project file.
- 6.2** The Contractor's Site Safety Officer shall hold a bi-weekly safety meeting with all Project workers to discuss Project safety.
 - 6.2.1** Appropriate safety subjects and topics of value should be covered.

- 6.2.2** Safety meetings shall be documented with copies to the Project file.

7.0 SPECIAL CONDITIONS: WASTE HANDLING/DISPOSAL

- 7.1** As a part of the proposal package, the Contractor shall provide the Laboratory a list to include each permitted disposal site that will be used and the waste type intended for disposal at that location.
- 7.2** The Contractor shall notify the Laboratory 20 calendar days prior to the start of decommissioning and submit a draft NMED decommissioning notification (20 NMAC 2.78 and 40 CFR § 1.145) for Laboratory review.
- 7.2.1** The Contractor shall bear full responsibility for submitting written notification to NMED at least 10 working days before any activity begins in accordance with the above regulatory references (40 CFR § 61.145).
- 7.2.2** It is unlawful for any person disposing of any units to knowingly vent or otherwise release into the environment any substance used as a refrigerant. Refrigerants are controlled substances under Title VI, Section 608 of the Clean Air Act. All work shall be performed in accordance with EPA requirements and Laboratory standards.
- 7.2.3** Disposal of refrigeration units at the Laboratory entails specific disposal requirements.
- 7.2.4** The Contractor shall contact the SWO D&D Project Leader for information regarding such disposal requirements.
- 7.2.5** The SWO D&D Project Leader will inform the Risk Reduction and Environmental Stewardship Division, Meteorology & Air Quality Group (RRES-MAQ) before disposal of any units containing refrigerants.
- 7.3** All asbestos activities shall comply with applicable NMED and Federal abatement standards and shall be reflected in the SSHASP submitted to the Laboratory for approval prior to the start of work
- 7.4** Contractor shall complete waste profile forms (WPFs; Laboratory Form 1346), Chemical Waste Disposal Requests (CWDRs; SWO-FWO form FMU64-F286), and Transuranic Waste Storage Requests (TWSRs; Forms 1562 or 1562E), as necessary, for review and signature by the Laboratory-designated Waste Management Coordinator or other Laboratory-designated personnel for all identified waste streams.
- 7.5** The Contractor will anticipate and plan for a minimum of 14 calendar days for WPF and CWDR processing by the Laboratory.
- 7.6** The Contractor will designate a Laboratory-certified Waste Coordinator to be responsible for the day-to-day waste coordination efforts. The

Laboratory will provide Waste Management Coordinator training, if needed, at the Laboratory's expense.

- 7.7 The Contractor shall follow the Project Waste Management Plan provided by SWO-D&D as part of the bid proposal. All required DOT and NMED shipping documents shall be the Contractor's responsibility.
- 7.8 All required DOT and NMED shipping documents shall be the Contractor's responsibility.
- 7.9 The Laboratory will provide training for Contractor personnel to properly use WPFs and CWDRs, and, if necessary TWSRs.
- 7.10 The Contractor must obtain CWDR tracking numbers for each shipment of hazardous waste shipped to an offsite location for disposal (for example, asbestos). A minimum of 14 calendar days should be allowed for this process.
- 7.11 No biological hazards should be encountered in this Project
- 7.12 If biological hazards are encountered during decommissioning, the Contractor shall immediately notify SWO D&D, including a Project Leader or the D&D Team Leader.
- 7.13 No radioactive waste should be encountered in this Project.
- 7.14 If radiation above background levels established by the Laboratory is detected, the Contractor shall:
 - 7.14.1 Contact SWO D&D including a Project Leader or the D&D Team Leader.
 - 7.14.2 If so directed, invoke the change order process, including the actions specified below:
 - 7.14.2.1 The Contractor shall be responsible for providing a health physics technician for proper control and worker safety issues concerning the radioactive waste.
 - 7.14.2.2 The Contractor shall submit a change-notice proposal to the Project Leader for removal and disposal of the radioactive waste that incorporates the requirements below:
 - 7.14.2.3 The Contractor shall modify the waste management plan and identify the waste disposal site(s) as a part of the proposal.
 - 7.14.2.4 All required DOT and NMED shipping documents shall be the Contractor's responsibility.
 - 7.14.2.5 Initial radioactive hazard identification to be performed and reported to SWO D&D as specified by the Project Leader.

- 7.14.3 Laboratory Radioactive Work Permits will be issued by the Contractor and approved by the Laboratory.
- 7.14.4 Radioactive shipments must be properly characterization prior to shipment.
- 7.14.5 The Contractor shall prepare a Waste Radioactive Profiling Procedure for review and approval by the Project Leader or his designee prior to the start of work.
- 7.14.6 At a minimum, each radioactive waste container shall be measured using gamma spectrographic equipment.
- 7.14.7 A six-point measurement technique shall be used.
- 7.14.8 Analytically defensible waste data will be used to model each container's internal waste constituents.
- 7.14.9 The CWDR shall record the results of the model-derived data.
- 7.14.10 The data output documents shall be attached to each CWDR for information.
- 7.14.11 Computer modeling software shall be identified as part of the procedure submittal for approval.
- 7.14.12 Software modeling is permitted with a copy of the program being provided to the Project leader.
- 7.14.13 Each container shall be digitally photographed prior to closure.
- 7.14.14 Each shipment will be inspected by the Project Leader or designee prior to shipment.
- 7.14.15 Road closure, if required, will be coordinated through the Project Leader or designee.

8.0 WASTE HANDLING AND DISPOSAL

- 8.1 The SWO D&D Project Leader will identify to the Contractor the Laboratory-designated Waste Management Coordinator (WMC).
- 8.2 As a part of the proposal package, the Contractor shall provide the Laboratory a list of the permitted disposal sites that will be used and the waste type intended for disposal at each proposed location.
- 8.3 The Contractor shall identify, list, and label all excess equipment for final disposition.
 - 8.3.1 The Contractor shall develop a procedure and process to control excess equipment
 - 8.3.2 The Contractor shall develop a written disposition for each item of excess equipment with copies to SWO D&D Project Leader and Project file.

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- 8.3.3** Contractor shall ensure that Laboratory analyses are completed on all equipment containing liquids for salvage.
 - 8.3.4** The Contractor shall provide copies of documentation to SWO D&D Project Leader and Project file.
 - 8.4** The Contractor shall ensure salvage operations on equipment are preformed and properly documented.
 - 8.4.1** The Contractor shall provide copies of documentation to the SWO D&D Project Leader and the Project file.
 - 8.5** The Contractor shall remove all liquids from equipment that will not be reused.
 - 8.6** The Contractor shall follow all hazardous and solid waste requirement and regulation for disposal.
 - 8.6.1** Disposal shall be documented with copies to the SWO D&D Project Leader and Project file.
 - 8.7** Contractor shall ensure that PCB-containing equipment that is above regulated PCB concentrations is not reused.
 - 8.7.1** Disposal shall be documented with copies to the SWO D&D Project Leader and Project file.
 - 8.8** The Contractor shall ensure that all equipment transferred to the Contractor's ownership that contains parts and/or materials of salvage value are NOT dismantled, torn apart, or broken down on Laboratory property.
 - 8.9** If required to dismantle equipment on Laboratory property, the Contractor shall develop a written procedure for the process and control of materials and all liquids.
 - 8.9.1** This procedure will also address hazards to the environment and to the health and safety of all personnel.
 - 8.10** The Contractor shall train its personnel to this procedure.
 - 8.10.1** The Project Leader, Safety Officer, and Quality Assurance Specialist will review and approve this procedure before dismantling of equipment.
 - 8.11** The Contractor shall notify the Project Leader 20 calendar days prior to the start of decommissioning and submit a draft NMED decommissioning notification (20 NMAC 2.78 and 40 CFR § 61.145) for Project review.
 - 8.12** The Contractor shall bear full responsibility for submitting written notification to NMED at least 10 working days before any activity begins in accordance with the above regulatory references (40 CFR § 61.145).

9.0 CHANGE CONTROL

- 9.1 The SWO D&D Project Leader will approve change orders before the work begins. The Written Change orders shall be submitted to the SWO D&D Project Leader within seven (7) working days, after which the SWO D&D Project Leader has the discretion to accept or reject the change order request.
- 9.1.1 Change Order disputes will be elevated to Contract Administrator for mediation.

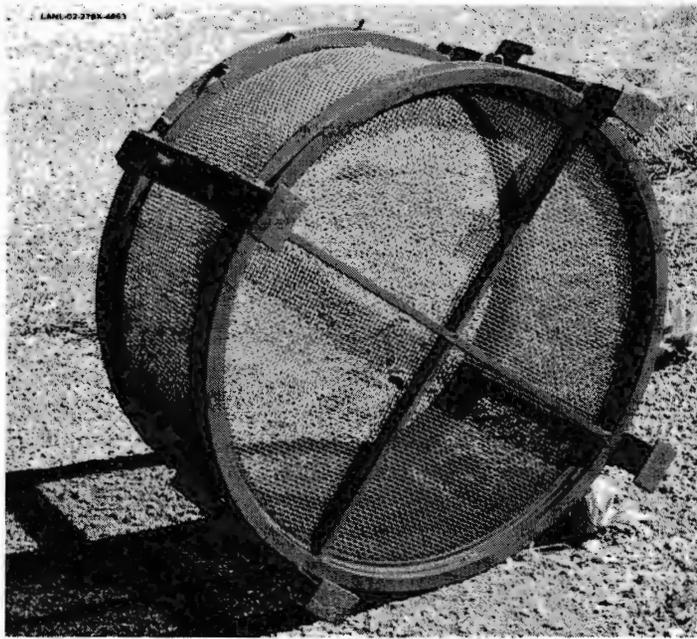
10.0 DELIVERABLES

- 10.1 Laboratory Contract Administrator shall receive the Performance Bond for the Project from the Contractor before the Contractor submits the following to the SWO D&D Project Leader for review and approval fifteen (15) working days before the Readiness Review:
- 10.1.1 A work plan (schedule) outlining the work and its time logic implications and the schedule will be submitted in P3 format
 - 10.1.2 A Site-Specific Health and Safety Plan (SSHASP)
 - 10.1.3 Changes to this Statement of Work, Project scope, process, procedure, or equipment shall require a revised Site-Specific Health and Safety Plan (SSHASP).
 - 10.1.4 Hazardous materials Abatement Plan
 - 10.1.5 DOT Hazard Waste Paper work
 - 10.1.6 Spill Prevention Plan
 - 10.1.7 Excess Equipment Control Procedure
 - 10.1.8 NESHAPS Approval from NMED –

NOTE: The Contractor shall prepare and submit NESHAPs notification to NMED 10 days prior to demolition activity and shall submit a draft copy of the notification to the RRES-MAQ group for their review 5 days prior to submittal of the final notification to NMED.
 - 10.1.9 Waste Profile Forms and Chemical waste disposal requests where applicable
 - 10.1.10 List of Permitted Disposal Sites for Project
 - 10.1.11 Approved Rock Crusher Permit
 - 10.1.12 D&D Storm Water Pollution Prevention Plan (DDSWPPP)
 - 10.1.13 The Contractor's Site Safety Officers Qualification Form
 - 10.1.14 The Contractor's certification for workers training to comply with Contractor's Site-Specific Health and Safety Plan

- 10.1.15** Outline of the Contractor prepared Final Report
- 10.1.16** Documentation required as part of the Contractor's Basic Ordering Agreement (BOA).
- 10.2** The Contractor's Waste minimization or recycling efforts are to be incorporated into the Contractor's work plan and presented 10 working days before the Readiness Review for consideration by the Laboratory.
- 10.3** The Contractor shall respond within 3 working days of receipt of comments from Laboratory on procedures, plans, reports, and records.
- 10.4** Before the Contractor's procedures, plans and manuals are submitted for review and approval by the appropriate Laboratory personnel, they shall be reviewed and approved by one of the Contractor's corporate officers against the latest edition of the pertinent code, standard, or specification.
 - 10.4.1** The corporate officer shall certify this review and approval within thirty, (30) working days of submittal to LANL. This signed and dated certification shall detail the documentation reviewed and approved.
- 10.5** Upon completion of the Project, the Contractor shall submit a written report within 30 calendar days containing the following:
 - 10.5.1** The Contractor's Executive Summary with project highlight
 - 10.5.2** Final cost
 - 10.5.2.1** Change Order cost
 - 10.5.2.2** Change order description
 - 10.5.2.3** Waste detail
 - 10.5.2.3.1* Non-hazardous Waste, Volume and type
 - 10.5.2.3.2* Hazardous Waste, Volume and type
 - 10.5.2.3.3* Recycle Location, Volume and type
 - 10.5.2.3.4* Disposal Site, Volume and type
 - 10.5.3** DOT manifest
 - 10.5.4** Project Schedule
 - 10.5.4.1** Baseline
 - 10.5.4.2** Final
 - 10.5.5** Safety Occurrence
 - 10.5.6** Copy of Contractor's Project File

APPENDIX B. ADDITIONAL PHOTOGRAPHS



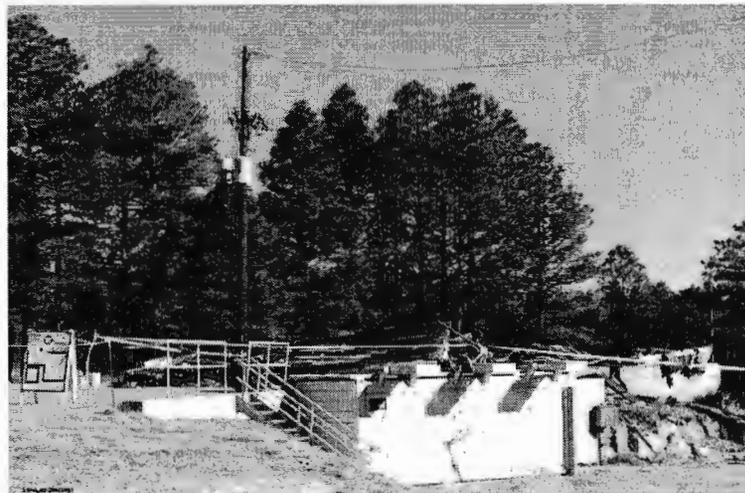
HE Wash Basket



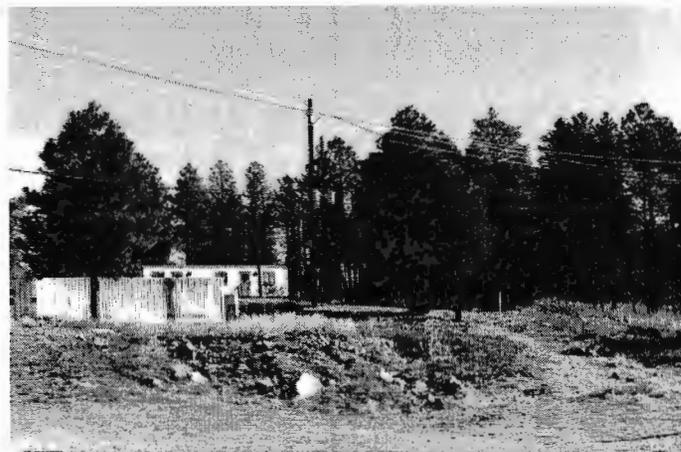
Sampling Rinsewater Trough



Building TA-16-309 before demolition.



Building TA-16-309 after building demolition.



Site after building and foundation removal



Building footprint after final debris removal and regrading



Irrigating the reseeded area