

FACILITY STATUS CHANGE FORM

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|-------------------------|-------------------------------|--|
| Date Submitted: | Area: 200W | Control Number: D4-PFP-027 D4-PFP-133 |
| Originator: James Leary | Facility ID: 243Z and 296Z015 | Phone: 509-942-6675 |

Action Memorandum/Removal Action Work Plan:
DOE/RL-2005-13/DOE/RL-2011-03

This form documents the status of facility decontamination, deactivation, decommissioning, and demolition operations or debris removal in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

All D4 operations required by action memo complete.

Description of Completed Activities and Current Conditions:

Building 243Z was deactivated from June 2015 to August 2015. The building and attached stack were demolished to slab-on-grade in August 2015.

Completed deactivation and demolition activities included, but were not limited to, the following:

- Mechanical and electrical utilities were isolated
- Buried piping that entered or exited the building was flushed or allowed to drain prior to capping or isolating.
- Drain lines were sealed at the building boundary. Vents and penetrations to the environment were also sealed.
- Unattached materials and equipment were removed and disposed.
- Non-radiological and radiological characterization of the facility was performed.
- Hazardous materials were removed in accordance with a pre-demolition checklist and properly disposed (e.g., refrigerants, lights [fluorescent and incandescent], batteries, and any items containing lead).
- A thorough inspection for asbestos containing materials was conducted. The report confirmed that no asbestos containing materials were present. A beryllium report was also completed to document that no beryllium was present.
- Structure, equipment, piping, ducting, etc. above the slab were removed and disposed in ERDF (no transuranic waste was generated).
- Following demolition, radiological surveys were performed. No radiological contamination was found.

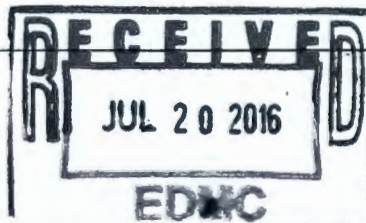
Demolition was performed using standard demolition practices and equipment such as excavators with attachments for shearing, handling, and size reduction of the structure and associated equipment/components.

References - The required facility removal actions were performed in accordance with:

- DOE/RL-2005-13, *Action Memorandum for the Plutonium Finishing Plant Above Grade Structures Non-Time Critical Removal Action*,
- DOE/RL-2011-03, *Removal Action Work Plan for the Deactivation, Decontamination, Decommissioning, and Demolition of the Plutonium Finishing Plant Complex*,
- HNF-22401, *Plutonium Finishing Plant (PFP) Complex End Point Criteria*, and
- DOE/RL-2015-34, *Revision 1, 243Z, 243ZA, 243ZB, and 296Z015 Endpoint Criteria Checklist*.

Total D4 Cost for the Facility:

\$637.9K (~616.2K for the building and \$21.7K for the stack)



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Section 2: Underlying Soil Status

- No waste site(s) present. No additional actions anticipated.
- Documented waste site(s) present. Cleanup and closeout to be addressed under a separate CERCLA Response Action.
- Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned. Cleanup and closeout to be addressed under a separate CERCLA Response Action.

Description of Current/As-Left Conditions:

The 243Z slab has been left in place, and a layer of gravel placed on top and contoured to provide a stabilized condition suitable for D4 activities to proceed in adjacent areas. A walkdown of the area where the structure previously stood has been conducted to confirm that demolition is complete, waste has been removed and the area is properly posted in accordance with radiological and occupational safety requirements. (See Endpoint Criteria Checklist DOE/RL-2015-34, Rev 1, Appendix A, Section 1).

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

N/A

Section 3: List of Attachments

Attachment 1: Facility Information;
Attachment 2: Pre-Demolition and Post-Demolition Photographs;
Attachment 3: Supporting Information

Thomas K. Teyak
DOE-RL Print


Signature

July 7, 2016
Date

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Attachment 1: Facility Information

243Z, Low Level Waste Treatment Facility

The Low Level Waste Treatment Facility (LLWTF) includes four separate structures: 243Z with the minor stack 296Z015, 243ZA, and 243ZB. This form addresses 243Z which housed two waste water treatment trains and the 296Z015 exhaust stack. The LLWTF was used to treat cooling water and chemical sewer waste from 234-5Z, 236Z, and 291Z which resulted in liquid waste that met the acceptance criteria for radionuclides discharged to the 200 East Area Treated Effluent Disposal Facility (TEDF), and a packaged solid or slurry waste suitable for disposal as low-level waste. The 296Z015 exhaust stack provided ventilation for the building.

The 243Z was constructed in 1993 and was located south/southeast of the 234-5Z Building. The 243 Z Building was an approximately 2,450 ft² metal fabricated structure built on a slab and contains no below-grade spaces. The single story structure had braced frame steel structure with metal siding. The walls and ceiling had batt insulation. The interior walls were finished with FRP wall panels and there was a suspended acoustical ceiling. The steel exhaust stack was located adjacent to the north end of the building. The stack was 42 feet high with a foundation that extended to about 4.5 feet below grade. Additional detail is available on drawings H2-82724 for the building and H2-82718 for the stack.

Characterization

Table 1 summarizes the characterization information collected prior to demolition

Table 1, Summary of Characterization Information

| Type | Documented In | Results Summary |
|--------------|---|---|
| Asbestos | CHPRC-02480, Rev. 0 | No asbestos containing materials were found. |
| Beryllium | Beryllium Verification Report for 243Z Low Level Waste Treatment Facility, 12/08/2014 | No beryllium contamination was detected; therefore, no beryllium postings were required for demolition. |
| Radiological | PFP Closure Project 243Z, Low-Level Waste Treatment Facility Radiological Characterization Data Summary Report March 2013 | As expected, total surface activity and removable activity results for the 243Z are exceedingly low. |

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Waste Disposition

Hazardous materials were identified during walk downs. A ready for demolition checklist was completed and approved signifying that identified hazardous materials were removed prior to demolition, or were factored in by approved rubble calculations that met the Environmental Restoration Disposal Facility (ERDF) waste acceptance criteria. Waste, including demolition debris, were sent to and disposed of at the ERDF.

Associated WIDS Sites

No WIDS sites were associated with the 243Z Complex.

Anomalies Discovered During Demolition

No anomalies were discovered during demolition. The slab remains in place, and all pipe penetrations (drains, sanitary water, etc.) have been isolated, cut flush to the slab, and sealed. Soils around the slab displayed no visual evidence of staining or discoloration.

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Attachment 2: Pre-Demolition and Post-Demolition Photographs



Figure 1. 243Z and 296Z015 Pre-demolition



Figure 2. 243Z and 296Z015 Post-demolition

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Attachment 3: Supporting Information

For this FSCF supporting information and documentation is included by reference only. Specifically, Appendix A from DOE/RL-2015-34, Revision 1, "243Z, 243ZA, 243ZB, and 296Z015 Endpoint Criteria Checklist" is used as a source.

Appendix A Includes:

| | |
|--|------|
| Section 1. Email or letter documenting results of the walkdown/review. | 1-1 |
| Section 2. Completed pre-demolition checklist documenting results of the walkdown..... | 2-1 |
| Section 3. Photographs | 3-1 |
| Structures and equipment have been removed | 3-2 |
| No loose material or debris remains | 3-5 |
| No portable or loose equipment remains in 243ZA sump pit, as required | 3-8 |
| No items containing hazardous materials remain in 243ZA sump pit..... | 3-9 |
| 243ZA sump pit equipment has been removed and pit has been backfilled..... | 3-10 |
| Final contamination control cover is placed | 3-12 |
| Radiological and occupational safety / IH postings are in place where required | 3-14 |
| Section 4. Work record entry..... | 4-1 |
| Section 5. VOHEI report, including photographs and walkdown report..... | 5-1 |
| Section 6. Beryllium Report. | 6-1 |
| Section 7. Asbestos Report. | 7-1 |
| Section 8. Characterization data package. | 8-1 |
| Section 9. Final work package approval sheets from key work packages contributing to completion of endpoint criteria..... | 9-1 |
| Section 10. Final approved radiation survey reports. | 10-1 |
| Section 11. Letter report documenting WMR review of waste handling and disposal records, including waste disposal summaries & ERDF receipt information. | 11-1 |