

FACILITY STATUS CHANGE FORM

Date Submitted:	Area: 200W	Control Number: D4-PFP-029
Originator: James Leary	Facility ID: 243ZB	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:**

The 243ZB Cooling Towers and Concrete Pad was deactivated between June 2015 and August 2015. In August of 2015 all elements (including towers, associated piping and equipment) were demolished and removed to a slab on grade condition.

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

- Mechanical and electrical utilities were isolated
- Portable and loose equipment was removed and disposed of prior to demolition.
- Buried piping that entered or exited the facility was flushed or allowed to drain prior to capping or isolating.
- Drain lines were sealed at the facility boundary. Penetrations to the environment were also sealed.
- Non-radiological and radiological characterization of the facility was performed.
- Hazardous materials were removed in accordance with the Pre-Demolition Checklist and properly disposed.
- 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.
- Structures, 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.

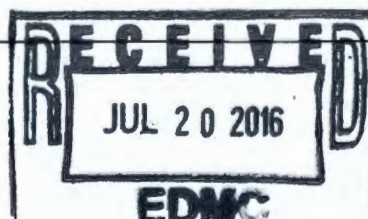
Demolition was performed using standard demolition practices and equipment such as excavators with attachments for shearing, handling, and size reduction of the structure and associated equipment/components.

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:

\$29K



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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 243ZB Cooling Towers are part of the PFP closed-loop cooling water system. The 243ZB slab has been left in place with all penetrations sealed and is in a suitable condition 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

DOE-RL

Print

Signature

Date

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Attachment 1: Facility Information**243ZB, Cooling Towers and Concrete Pad**

The 243ZB Cooling Towers and Concrete Pad facility was affiliated with the 243Z Low Level Waste Treatment Facility. It was constructed in 1993 and was located north of the 243ZA Low-Level Waste Storage Facility. The two cooling towers were mounted on a concrete slab that is approximately 7.3 m (24 feet) by 4.6 m (15 feet). The 243ZB housed the closed-loop cooling water system and two fluid cooling units that supported 243Z Building operations.

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	No radiological contamination was detected at this facility.

Waste Disposition

Hazardous materials were identified during walk downs. A pre-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. 243ZB Pre-demolition



Figure 2. 243ZB 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