

## FACILITY STATUS CHANGE FORM

Date Submitted: 02/14/2019	Area: 200W	Control Number: D4-PFP-026
Originator: James Leary	Facility ID: 242ZA	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 242ZA Airlock Access Building was deactivated and demolished to slab-on-grade in January 2017.

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

- Isolated mechanical and electrical utilities.
- Removed and disposed of unattached materials and equipment.
- Performed nonradiological and radiological facility characterization.
- Removed and properly disposed of hazardous materials (e.g., refrigerants, lights [fluorescent and incandescent], batteries, and any items containing lead).
- Conducted a thorough inspection for asbestos-containing materials (ACMs) and removed friable ACMs that were present.
- Completed a beryllium assessment to document that the building can be considered to be beryllium cleared.
- Performed demolition using standard practices and equipment such as excavators with attachments for shearing, handling, and size reduction of the structure and associated equipment/components.
- Removed and properly disposed of the above-slab structure. Depending on waste characterization, disposal of mixed and non-mixed waste occurred at the Environmental Restoration Disposal Facility (ERDF) while transuranic (TRU) waste or TRU-mixed waste was treated and packaged (or packaged for treatment at an offsite facility), or placed into storage pending disposal at the Waste Isolation Pilot Plant (WIPP).
- Completed required facility removal actions according to the following documents:
  - DOE/RL-2005-13, 2005, *Action Memorandum for the Plutonium Finishing Plant Above-Grade Structures Non-Time Critical Removal Action*, Rev. 0
  - DOE/RL-2011-03, 2016, *Removal Action Work Plan for the Deactivation, Decontamination, Decommissioning, and Demolition of the Plutonium Finishing Plant Complex*, Rev. 1
  - HNF-22401, 2004, *Plutonium Finishing Plant (PFP) Complex End Point Criteria*, NMS-16404, Rev. 0
  - DOE/RL-2015-37, 2017, *242Z/242ZA Endpoint Criteria Checklist*, Rev. 1

**Total D4 Cost for the Facility:**

\$34,458



**FACILITY STATUS CHANGE FORM** (continued)

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**Attachment 1: Facility Information**

**242ZA Airlock Access Building**

The 242ZA Airlock Access Building was designed in 1985 and was constructed and began operation in 1992. The building was a corrugated metal structure built specifically for making entries to clean up the 242Z Waste Treatment Facility control room. The 242ZA structure surrounds the west and south sides of the 242Z airlock. The building is 30 ft by 26 ft 4 in. by 16 ft 10 in. and covers an area of ~790 ft<sup>2</sup>.

**Characterization**

Table 1 summarizes the characterization information collected prior to demolition.

**Table 1. Summary of Characterization Information**

Type	Documented In	Results Summary
Asbestos	CHPRC-02943, 2016, <i>Asbestos NESHAP Thorough Inspection Report for the 242-ZA Airlock Access Building</i> , Rev. 0	The asbestos thorough inspection found doors with friable asbestos cores and non-friable Category 1 and 2 ACM (caulk and mastic) in the 242ZA Building.
Beryllium	BFA-B-20389-Rev1, 2017, <i>Beryllium Facility Assessment for 200W - 242-ZA - Access Control for Building 242-Z Beryllium Characterization Report for 242ZA</i> , 09/23/2015	Conclusion: 242ZA can be considered to be beryllium cleared.
Radiological	CWR-PFP-00025, 2016, <i>Radiological Characterization of 242-Z</i> , Rev. 0	The radiological characterization of 242ZA found insignificant levels of radiological contamination.

**Waste Disposition**

Hazardous materials (including regulated asbestos-containing materials [RACM]) identified during walkdowns and inspections were removed prior to the demolition of 242ZA to meet ERDF waste acceptance criteria (ERDF-00011, 2016, *Environmental Restoration Disposal Facility Waste Acceptance Criteria, formerly WCH-191 Rev 4*, Rev. 00). Depending on waste characterization, disposal of mixed and non-mixed waste occurred at the ERDF while TRU waste or TRU-mixed waste was treated and packaged (or packaged for treatment at an offsite facility) and/or placed into storage pending disposal at the WIPP. The work associated with removal of the 242ZA Building was performed under Work Package 2Z-16-01101.

**Associated Waste Information Data System (WIDS) Sites**

No WIDS sites were associated with the 242ZA Building.

**Anomalies Discovered During Demolition**

No anomalies were discovered during demolition. 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. 242ZA Building Pre-Demolition**



**Figure 2. 242Z and 242ZA Slabs**

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### Attachment 3: Supporting Information

Supporting information and documentation for this Facility Status Change Form are provided in Appendix B of CWR-PFP-00010-ADD1, 2017, *242Z and 242ZA Endpoint Documentation*, which provides the evidence to document how applicable endpoints for 242Z/242ZA demolition were satisfied. The following list is the Summary of Contents from Appendix B of CWR-PFP00010-ADD1. Items B5, B10, B11, and B13 from Appendix B, which are not applicable to 242ZA, are not shown below.

**B1 242Z/242ZA Buildings Ready for Demolition Checklist**

The Ready for Demolition Checklist identifies tasks to be completed prior to demolition. Completion of each task on the checklist is verified by appropriate personnel after a walkdown and review of documentation, as needed. The checklist supports verification for the completion of endpoints 4, 5, 6, 7, 10, 14, and 27.

**B2 Work Package Approval Sheet**

The work packages 2Z-16-01101/M, 2Z-15-06531/M, 2Z-13-07371/M, 2Z-15-04629/G, and 27-16-03911/W support the verification for completion of endpoints 2, 4, 5, 6, 7, and 27.

**B3 Verification of Hazardous Energy Isolation (VOHEI) Report**

The Verification of Hazardous Energy Isolation (VOHEI) provides documentation that the isolations identified in both the mechanical and electrical isolation indexes have been completed and the facility meets cold and dark requirements for demolition. The VOHEI supports verification for completion of endpoints 5, 6, and 7.

**B4 Beryllium Assessment Report**

The Beryllium Assessment Report for 242Z identified a potential for beryllium associated with electrical equipment. The report for 242ZA concluded that it would not be treated as a beryllium controlled facility. These reports support the verification for completion of endpoint 9.

**B6 Post-Stabilization Radiological Survey Report of the 242Z/ZA Area**

The post-demolition radiological survey report of equipment documents radiological conditions observed. The slab remains highly contaminated, and interim stabilization measures were taken to accommodate adjacent demolitions (236Z and 234-5Z). This report supports the intent of endpoints 16 and 19, which are delayed to post-transition.

**B7 Review of Waste Handling and Disposal Records**

The memorandum in this section documents the successful review of waste disposal records. This review supports the completion of endpoint 20.

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**B8 Email Summary and Post-Demolition Walkdown**

Due to site conditions, a virtual walkdown of the site was performed. This section documents the results of the post-demolition walkdown. The checklist supports documentation of facility endpoints shown in the email summary.

**B9 Asbestos NESHAP Thorough Inspection Report at 242Z/242ZA and EPA Approvals**

CHPRC-02787, *Asbestos NESHAP Thorough Inspection Report at 242Z*, documents the inspection of 242Z for asbestos-containing material (ACM). CHPRC-02943, *Asbestos NESHAP Thorough Inspection Report at 242ZA*, documents the inspection of 242ZA. Approval sheets for these reports are provided as objective evidence of the inspections. The inspections supported facility characterization per endpoint 9.

Email correspondence with the U.S. Environmental Protection Agency documents the approvals obtained to allow non-friable ACM to remain in the building during demolition. These documents demonstrate compliance with the site asbestos program per endpoint 27. Note: All regulated asbestos-containing material (RACM) was removed prior to demolition. Documentation regarding asbestos abatement is provided in Sections B1, B2, and B12.

**B12 Work Package Entries Documentation**

This section contains miscellaneous work package documentation for endpoints 4, 5, 6, 7, and 27.