

FACILITY STATUS CHANGE FORM

Date Submitted: 03/20/2019 Area: 200W Control Number: D4-PFP-041

Originator: William Cox Facility ID: 2712Z 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 2712Z Stack Sampling and Monitoring Station was deactivated and demolished to slab-on-grade in July 2017.

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

- Isolated mechanical and electrical utilities
- 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 material (ACM) and completed a report confirming that ACM was present. Removed and disposed of regulated ACM.
- Completed a beryllium assessment.
- Removed and properly disposed of the above-slab structure. Disposal of mixed and non-mixed waste occurred in the Environmental Restoration Disposal Facility (ERDF). 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.
- Completed required facility removal actions in accordance with the following documents:
 - DOE/RL-2005-13, 2005, *Action Memorandum for the Plutonium Finishing Plant Above-Grade Structures Non-Time Critical Removal Action*
 - DOE/RL-2011-03, 2014, *Removal Action Work Plan for the Deactivation, Decontamination, Decommissioning, and Demolition of the Plutonium Finishing Plant Complex*
 - HNF-22401, 2004, *Plutonium Finishing Plant (PFP) Complex End Point Criteria*
 - DOE/RL-2015-38, Rev. 0, *291Z/291Z001 Endpoint Criteria Checklist, Rev. 0*

Total D4 Cost for the Facility:

\$3,000.00

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.

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Description of Current/As-Left Conditions:

The 2712Z Stack Sampling and Monitoring Station was removed to grade. The 291Z001 and 2712Z 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.

(See CWR-PFP-00014, 291Z/ Demolition Report As Left Characterization).

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

| | | |
|---|--|----------------------------------|
| <u>Thomas Teynor</u> DOE-RL <i>Print First and Last Name</i> |  <i>Signature</i> | <u>03-20-2019</u> <i>Date</i> |
|---|--|----------------------------------|

NOTE: The information on this form also satisfies the related DOE 430.1B Facility Closeout Reporting Requirements.

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Attachment 1: Facility Information

2712Z Monitoring Station

The 2712Z Stack Sampling and Monitoring Station consisted of two small buildings designed to house air monitoring equipment and was constructed and began operation in March 1979:

- Building 1 is unnamed and is a simple, approximately 6 by 6 by 8 ft (36 ft²) plywood shell housing TV monitoring equipment and is located at the base of the stack.
- Building 2, 2712-Z is an 8 by 8 ft monitoring shack built on a lightweight concrete base 50 ft above the ground level on a steel staircase. This building is used to house the air monitoring samplers for the stack.

The 2712Z Monitoring Station and the small structure at the base of the stack were demolished in July 2017.

Characterization

Table 1 summarizes the characterization information collected prior to demolition.

Table 1. Summary of Characterization Information

| Type | Documented In | Results Summary |
|--------------|--|--|
| Asbestos | CWR-PFP-00022, 2017, Asbestos NESHAP Thorough Inspection Report for the 2712Z Monitoring Shack, Rev. 0 | Representative samples were taken from the light weight concrete base, ceiling, walls, caulk, and doors. Results of this sampling show that the interior walls of 2712Z are composed of transite (325 ft ² of 30% to 70% chrysotile asbestos). This material was removed prior to demolition. |
| Beryllium | BFA-B-20143-Rev 1, 2016, <i>Beryllium Facility Assessment for 2712Z, the Stack Sampling and Monitoring Station</i> | The report determined that 2712Z can be considered a beryllium cleared structure. |
| Radiological | CWR-PFP-00034, 2017, <i>291Z Radiological Data Summary</i> , Rev. 0 | The 2712Z monitoring station was a radiological facility but contamination levels were not significant. |

Waste Disposition

Hazardous materials identified during walkdowns and inspections (including regulated asbestos containing materials) were removed prior to demolition to meet ERDF waste acceptance criteria (ERDF-00011, 2016, *Environmental Restoration Disposal Facility Waste Acceptance Criteria formerly WCH-191 Rev 4*). Low-level and low-level mixed demolition debris was sent to and disposed of at ERDF. The work associated with removal of the 2712Z building was performed in conjunction with the 291Z building under Work Package 2Z-17-01662.

Associated Waste Information Data System (WIDS) Sites

No WIDS sites were associated with the 2712Z Stack Sampling and Monitoring Station.

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. 2712Z Monitoring Station Pre-Demolition

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Figure 2. 2712Z Monitoring Station Post-Demolition

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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-00014-ADD1, 2018, *291Z Ventilation Complex Endpoint Documentation*, Rev. 0, which provides the evidence to document how applicable endpoints for demolition were satisfied. The following list is the Summary of Contents from Appendix B of CWR-PFP-00014-ADD1.

B1 Ready for Demolition Checklists

Three Ready for Demolition Checklists were completed for 291Z and associated facilities. The one for 291Z001 did not address any endpoint checklist items and is therefore not included in this section. The other two checklists are for the 291Z Ventilation Exhaust Fan House (including 252Z2) and the 2712Z Stack Sampling and Monitoring Station.

The Ready for Demolition Checklists confirm that tasks required to be performed prior to demolition were completed as indicated by signature of the manager responsible for completing the action. Some tasks required verification of completion by a walkdown. Completed walkdown checklists are included as indicated. The following tables summarize the endpoints supported by the Ready for Demolition Checklists.

B2 Work Package Approval Sheets

Field work for the work packages that supported demolition of the 291Z Ventilation Complex was completed in September 2017.

B3 Verification of Hazardous Energy Isolation (VOHEI) Report

The Verification of Hazardous Energy Isolation (VOHEI) report provides documentation that the isolations identified in the mechanical and electrical indexes have been completed and the facility meets cold and dark requirements for demolition. Due to the size of the VOHEI, only select pages are included here to demonstrate completion of this item.

B4 Beryllium Assessment Report

The three beryllium assessment reports concluded that 291Z, 291Z001, and 2712Z Buildings would not be treated as beryllium controlled facilities.

B5 Pre-Demolition Radiological Data Summary Report

The report summarizes the radiological data for the 291Z and 291Z001 Buildings in support of completion verification for endpoints 3, 8, and 9.

B6 Post-Stabilization Radiological Survey Report of the 291Z Ventilation Complex

Due to concurrent demolition activities taking place at the 234-5Z and 236Z Buildings, a post-stabilization radiological survey of the 291Z Ventilation Complex was not possible. To provide some indication of radiological conditions, surveys were conducted on equipment in the area during demolition of the 291Z Ventilation Complex. The post-demolition radiological survey report of demolition zone equipment is used to document the interim conditions observed. Interim stabilization measures were taken to accommodate adjacent demolitions (236Z and 234-5Z).

B7 Review of Waste Handling and Disposal Records

The memo documents the successful review of waste disposal records.

B8 Email Summary and Post-Demolition Walkdown

This section documents of the results of the post-demolition walkdown.

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B9 Asbestos NESHAP Thorough Inspection Report

Three separate reports document the thorough inspection of 291Z Ventilation Complex for asbestos-containing material (ACM). Coversheets of the asbestos reports and the email correspondence with the U.S. Environmental Protection Agency (EPA) documenting the approvals obtained to allow some ACM to remain during demolition are included in this section. This documentation supports verification of endpoints 9 and 27.

B10 Miscellaneous Documentation

This section provides miscellaneous documentation that supports completion of endpoints 1, 2, 3, 4, 10, 11, 12, 13, 14, and 15.