

FACILITY STATUS CHANGE FORM

Date Submitted: 02/14/2019 | Area: 200W | Control Number: D4-PFP-030
 Originator: James Leary | Facility ID: 2503Z | 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 2503Z (13.8 KV Switch Yard - North of 234-5Z) was deactivated and demolished in September 2017. The switch yard was electrically isolated, and the structures were demolished. Deactivation and demolition activities included but were not limited to the following:

- Isolation of mechanical and electrical utilities
- Removal of towers and concrete bases and disposal in the Environmental Restoration Disposal Facility (ERDF)
- Facility characterization
- Removal of hazardous materials
- Inspection for asbestos-containing material (ACM)
- Beryllium assessment to document that no beryllium was present
- Completion of actions required by DOE/RL-2015-39, 2015, *Plutonium Finishing Plant Complex Yard and Grounds 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.

Description of Current/As-Left Conditions:

A walkdown of the area was conducted where the structure previously stood to confirm that demolition was completed and waste was removed. The site has been appropriately posted according to radiological and occupational safety requirements. Final radiological surveys will be conducted following demolition of radiological facilities within the Plutonium Finishing Plant (PFP) Complex.

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: Photographs
 Attachment 3: Supporting Information

THOMAS TEYNOR
 DOE-RL Print First and Last Name


 Signature

02-21-2019
 Date

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

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019 Area: 200W Control Number: D4 - PFP-030

Attachment 1: Facility Information

Installed in 1948, the 2503Z (13.8 kV Switch Yard north of 234-5Z) consisted of four steel switching towers on concrete footings. These switching towers transitioned 13.8 kV power underground to transformers at the north wall of 234-5Z Building.

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-00033, 2017, <i>Asbestos NESHAP Thorough Inspection Report at 2503Z</i> , Rev. 0	The asbestos thorough inspection found no evidence of ACM associated with 2503Z.
Beryllium	BFA-B-20494-Rev0, 2015, <i>200W - 234-5Z - Plutonium Finishing Plant</i>	2503Z was located within the 100 ft demolition footprint of PFP, which is a beryllium controlled facility; therefore, 2503Z was also managed as a beryllium controlled facility.
Radiological		2503Z was located within the 100 ft demolition footprint of PFP, which is a radiologically contaminated facility; therefore, 2503Z was also managed as a radiologically contaminated facility.

Waste Disposition

Demolition of the 2503Z Switch Yard was performed under work package 2Z-17-01699. Demolition wastes were disposed at ERDF.

Associated Waste Information Data System (WIDS) Sites

No WIDS sites were associated with the 2503Z Switch Yard.

Anomalies Discovered During Demolition

No anomalies were discovered during demolition. Soils around the slab displayed no visual evidence of staining or discoloration.

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019

Area: 200W

Control Number: D4-PFP-030

Attachment 2: Photographs



Figure 1. 2503Z Pre-Demolition



Figure 2. 2503Z Post-Demolition

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019	Area: 200W	Control Number: D4 - PFP - 030
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Attachment 3: Supporting Information

The 2503Z Switch Yard is not specifically included in Table 1 of HNF-22401, *Plutonium Finishing Plant Complex End Point Criteria*, but it is listed in DOE/RL-2005-13, *Action Memorandum for the Plutonium Finishing Plant Above-Grade Structures Non-Time Critical Removal Action*. It was also included in DOE/RL-2015-39, *Plutonium Finishing Plant Complex Yards and Grounds Endpoint Criteria Checklist*, with two endpoint criteria being applicable. The following information is provided to document the actions associated with the endpoints.

Endpoint	2503Z Action	Documentation
Y&G C-22	Remove miscellaneous above-grade structures.	Completion statement following a walkdown to confirm that the above-grade structure has been removed. Provide a photograph showing that it has been removed. (See Figure 2 in Attachment 2 of this FSCF for the photograph. Email for the completion statement included in following pages.)
Y&G C-29	Isolate and air-gap equipment identified in the electrical isolation index.	Completion statement documenting review by a qualified engineer confirming that isolation and any necessary re-routing of power have been completed and that essential drawings have been updated. The following pages include the completion statement.

FACILITY STATUS CHANGE FORM (continued)		
Date Submitted: 02/14/2019	Area: 200W	Control Number: D4-PFP-030

-----Original Message-----

From: Cox, William G (Bill)

Sent: Thursday, September 28, 2017 1:34 PM

To: Dixon, Brian J

Cc: Hopkins, Ted A

Subject: Emailing: IMG_2557

Ted and I walked down the North side of 234-5Z on 9/25/17 and verified that the 2305Z Electrical Switch Yard has been demolished. The attached photograph shows the area where the yard used to be.

Bill Cox

Your message is ready to be sent with the following file or link attachments:

IMG_2557

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019	Area: 200W	Control Number: D4-PFP-030
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From: Parkhill, Matthew B
Sent: Thursday, September 28, 2017 5:15 PM
To: Dixon, Brian J
Subject: RE: Electrical Isolation of PFP

Brian,

You are correct that power to 234-5Z, 2503Z, and 291Z were removed completely, with our overhead lines rolled back.

Our switching diagram, which documents the connections of every facility to the distribution system has not been updated yet, as there are a few minor tasks left on the last package to complete.



Matthew Parkhill
Electrical Utilities, Distribution Engineer
o: 509.373.1589 | m: 509.430.1249

From: Dixon, Brian J
Sent: Thursday, September 28, 2017 1:23 PM
To: Parkhill, Matthew B
Cc: Dixon, Brian J
Subject: Electrical Isolation of PFP

Thanks for the information you provided in our phone conversation. As confirmation could you please let me know if I have accurately captured the MSA information to support completion of our closure endpoint for electrical isolation?

Complex-wide Endpoint 29: Isolate the PFP Complex electrical supply at a point minimizing dead legs. Re-route power to non-PFP systems within the complex. Update essential drawings to document as-left conditions.

Based on our conversation, the lines providing power to PFP were removed at the 2503Z Switch Yard. No re-routing of power to non-PFP systems was necessary. Your drawings have been updated to show that the power to the substation has been removed.

Please confirm by return email that I have the facts right (or correct them if not). If you have additional information that would be helpful for our records I would appreciate getting it.

Thanks for your help!
Brian Dixon

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019

Area: 200W

Control Number: D4-PFP-030

CHPRC-03240, Rev. 4
July 24, 2017
Page 1 of 69

**VERIFICATIONS OF
HAZARDOUS ENERGY ISOLATIONS FOR
BUILDINGS 234-5Z, 234-5ZA AND 291-Z**

Prepared By: 
Arthur Stubbs
Cold & Dark Mechanical Isolations Engineer

Date: 7-24-17

Prepared By: 
Duncan Campbell
Cold & Dark Electrical Isolations D&D Engineer

Date: 7-24-17

Approved By: 
Mark Alexander
Engineering Manager

Date: 7-24-17


Tim L. Trevis
PFP Facility Demolition Prep

Date: 7-24-17


Chris Pearson
D&D Demolition Director

Date: 7/24/2017


Jina Johnson
Cold & Dark Director

Date: 7.24.17


Kelly Wooley
PFP Deputy Project Manager

Date: 07/24/17

234-5Z, 234-5ZA, 291-Z VOHEI Rev 4

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019

Area: 200W

Control Number: D4-PFP-030

CHPRC-03240, Rev. 4
July 24, 2017
Page 6 of 69

Electrical Photo References:



P (15275)
13.8 KV
Disconnect Switch C8X65
(before)



P (15276)
13.8KV
Disconnect Switch C8X65
(after)



P (15277)
13.8KV
Disconnect Switch C8X69
(before)



P (15278)
13.8KV
Disconnect Switch C8X69
(after)

234-5Z, 234-5ZA, 291-Z VOHEI Rev 4

FACILITY STATUS CHANGE FORM (continued)

Date Submitted: 02/14/2019

Area: 200W

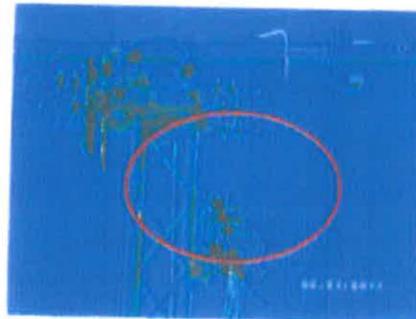
Control Number: D4-PFP-030

CHPRC-03240, Rev. 4
July 24, 2017
Page 11 of 69

Electrical Photo References, 234-5Z, 234-5ZA, 291-Z, 291-Z Stack:



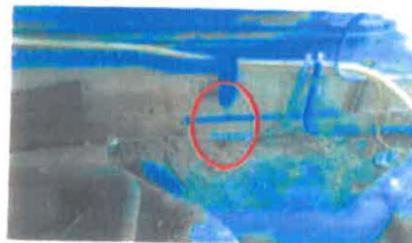
P (15382)
Disconnect Switch C8X67
(Tower)
(Building 234-5Z, North Side)
Item No. 1 (before)



P (15526)
Disconnect Switch C8X67
(Tower)
(Building 234-5Z, North Side)
Item No. 1 (after)



P (15304)
Undetermined Conduit
Building 291-Z
(North Exterior Wall)
Item No. 2 (before)



P (15511)
Undetermined Conduit
Building 291-Z
(North Exterior Wall)
Item No. 2 (after)

234-5Z, 234-5ZA, 291-Z VOHEI Rev 4