

Control #: D4-300-075**FACILITY STATUS CHANGE FORM**

Date Submitted: January 16, 2013	Area: 300 Area	Control #: D4-300-075
Originator: Chris Strand	Facility ID: 3621B/C, 3503B, and 327-BA	
Phone: 554-2720	Action Memorandum: Action Memorandum #3	

This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- All D4 operations required by action memo complete.
- D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were performed on the facilities prior to beginning removal actions.

The following hazardous materials were removed prior to facility demolition: batteries, Freon, oil, light ballasts, fuels, naturally occurring radioactive materials, and miscellaneous construction materials. Asbestos containing materials were removed by certified asbestos workers. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work Plan for 300 Area Facilities*, DOE/RL-2004-77, Revision 2 (RAWP).

Demolition: Above-grade demolition of the 3621B/C, 3503B, and 327-BA facilities were completed in November 2012. Below-grade demolition of all three facilities was complete in December 2012. The demolition area was backfilled to grade with clean fill. The building debris from demolition was removed and disposed of at ERDF. The demolition was performed with Radiological and Industrial Hygiene controls.

Description of Deferral (as applicable):

N/A

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 Record of Decision.
- Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned. Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

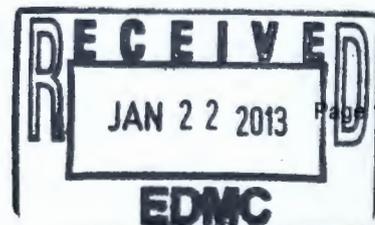
All above-grade structures and foundations were removed. Excavations were backfilled to grade with clean fill. GPERS surveys were performed prior to backfill. No radiological or Industrial Hygiene postings remain.

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

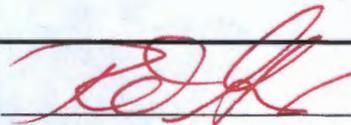
300-15 process sewer segments remain in the area. Waste Site 300-11 is located immediately to the east of 3621B/C and will undergo remediation as part of the 300-FF-2 Operable Unit.

Section 3: List of Attachments

1. Facility information (building history, characterization and identification of documented waste sites).
2. Project photographs.
3. GPERS Survey of the 382 Complex (includes 3621B/C, 3503B, and 327-BA areas).



FACILITY STATUS CHANGE FORM

		<u>1/16/13</u>
DOE-RL		Date
<u>Larry Gadbois</u>		<u>Jan 17, 2013</u>
Lead Regulator	<input checked="" type="checkbox"/> EPA <input type="checkbox"/> Ecology	Date

DISTRIBUTION:

EPA: Larry Gadbois, B1-46
Ecology: Rick Bond, H0-57
DOE: Rudy Guercia, A3-04
Document Control, H0-30
Administrative Record, H6-08 (300-FF-2 OU)

SIS Coordinator: Ben Cowin, H4-22
D4 EPL: Chris Strand, L4-45
Sample Design/Cleanup Verification: Theresa Howell, H4-22
FR Engineering: Eric Ison, L4-32
FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Building Histories:

3621B/C

3621B/C was originally two separate buildings, 3621-B and 3621-C respectively. In 1993, the two buildings were incorporated into a single facility, which was renamed as 3621B/C. The original two buildings and the subsequent 3621B/C facility were used to provide emergency power to the 300 Area in the event of a power outage. The building contained a diesel generator designed to start automatically and provide power within 15 seconds. The generator was supplied fuel from the 3621B/B underground storage tank (UST). The UST was removed in October of 2011 and closed out with the State of Washington, Department of Ecology. The building also contained switch gear for electrical current distribution.

3503B

3503B was a below-grade electrical distribution cable pit located adjacent to the 3621B/C west wall.

327-BA

The 327 Boiler Annex was constructed in 1997 and provided steam to the 327 Building, which was located to the northeast. The building contained a natural gas fired boiler and was steel framed, steel sided, and set on a concrete slab.

3621B/C, 3503B, and 327-BA Facilities Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected on facility components that were demolished.

Table 1. Summary of Characterization Surveys at 3621B/C, 3503B, and 327-BA

Type	Date	Documented In	Results Summary
Asbestos	January 26, 2012	CCN # 166653 (Addresses all 382 facilities)	Presumed ACM limited to underground conduit between 3621-B/C and 3503B. All other facility components were found to contain no ACM.
	April 26, 2012	CCN # 133144 (327-BA)	
IH Surveys and Beryllium Characterization	May 10, 2010	CCN# 150839 (3621B/C)	Facilities determined to be Be free. All other contaminants of concern below action levels.
Radiological Surveys	February 16, 2011	RSR-300PS-11-0679 (3621B/C)	Naturally occurring radioactive materials found in 3621B/C switch gear components (ceramic). All facilities free of radioactive contamination.
	December 6, 2011	RSR-300PS-11-5328 (3503B)	
	November 22, 2011	RSR-300PS-11-5184 (327-BA)	

Associated WIDs sites:

300-15 process sewer segments remain in the area.

Waste Site 300-11 is located immediately east of the 3621B/C building and will undergo remediation as part of the 300-FF-2 Operable Unit.

Anomalies Discovered During Demolition.

No anomalies were observed during the demolition of the 3621B/C, 3503B, and 327-BA facilities. However, a gasoline odor could be detected in the area around the 382 Building during below-grade demolition. The 382 Building was located immediately east of the 3621B/C Building. The gasoline odor can be attributed to the 300-11 Waste Site, which is scheduled for remediation as part of the 300-FF-2 Operable Unit work scope.

Soil beneath all three facilities displayed no visual evidence of staining or discoloration. GPERS surveys following below-grade demolition identified no contamination.

Attachment 2: Project Photographs

Photograph 1: Pre-demolition vertical aerial photograph of 382 Complex



**Photograph 2. Looking southeast on June 22, 2011,
3621B/C and 3503B before demolition**



**Photograph 3. Looking north on September 8, 2012, during 3621B/C above-grade
demolition.**



**3621B/C, 3503B, & 327-BA
FACILITIES COMPLETION**

Photograph 4. Looking northwest at 327-BA before demolition.



Photograph 5. Looking north on September 8, 2011, during 327-BA above-grade demolition.



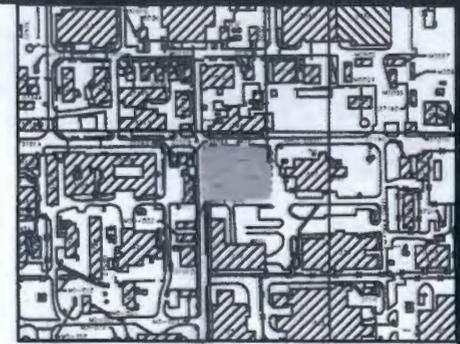
Photograph 6. Looking west on December 6, 2012 following backfill of the entire 382 Complex (includes 3621B/C, 3503B, and 327-BA)



**Attachment 3: GPERS Survey of the 382 Complex Excavation
Prior to Backfill
(Includes 3621B/C, 3503B, and 327-BA Areas)**



↑
Bkg Location
340m North
1217 cpm



Site View



Copy

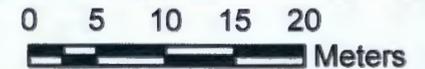
Legend

- × <1.5x bkg
- 1.5x bkg - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4, DD4_341
Number of Data Pnts: 2728
Type of Survey: gamma
Max GCPM: 2068
Avg Bkg CPM: 1217
Survey Date: 12/07/2012
Area Surveyed: 3910 m²
Project File: ESRFRM120149
Pdf File: ESRFRM120149C

300 D4
382 Complex
GPERS Radiological Survey
Gamma Track Map



Survey Map Prepared By Bruce Coomer, ESI