

FACILITY STATUS CHANGE FORM

0095672

Date Submitted: April 18, 2011	Area: 300 Area	Control #: D4-300-041
Originator: John Harrie	Facility ID: 3621D and 3621-66	
Phone: 509.308.9935	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 facility prior to beginning facility decontamination.

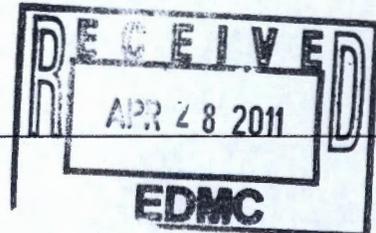
The following hazardous materials were removed prior to facility demolition: oils, asbestos containing material, grease, mercury, freon, and miscellaneous construction materials. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work for 300 Area Facilities*, DOE/RL-2004-77, Revision 2 (RAWP). Fixative was applied to the inside of the building to lock down any remaining chemical contamination prior to demolition.

Demolition: Demolition of the 3621D Emergency Generator Building above-grade structure was completed in November of 2010 and below-grade components were completed February 21, 2011. The building debris and generators were removed and disposed of at ERDF. Due to the facility histories, the above-grade demolition was performed under Industrial Hygiene controls due to the presence of asbestos containing materials. GEPRS Surveys were performed following demolition and backfill. A post-demolition civil survey was not performed because no foundation elements remain.

3621-66 was a 4,000-gallon double-walled fiberglass UST that replaced the original 4,000-gallon single-wall steel tank. The original UST was removed in December of 1994. The replacement UST (3621-66) was removed and closed out on January 9, 2009 (White Shield, Inc. letter to Ecology correspondence).

Description of Deferral (as applicable):

None

**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-ground and below-grade 3621D building structures and UST was removed, loaded out and the excavation backfilled to grade.

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

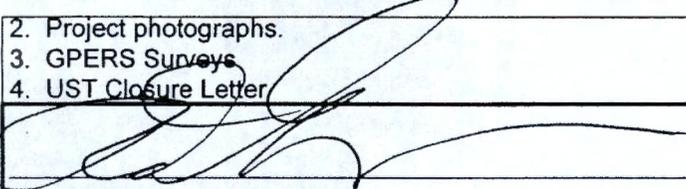
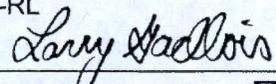
Reference Attachment 2.

Section 3: List of Attachments

1. Facility information (building history, characterization and identification of documented waste sites).

FACILITY STATUS CHANGE FORM

- 2. Project photographs.
- 3. GPERS Surveys
- 4. UST Closure Letter

	<p>4/20/11</p>
DOE-RL 	Date April 20, 2011
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

SIS Coordinator: Ben Cowin, H4-22
 D4 EPL: Chris Strand, L7-10
 Sample Design/Cleanup Verification: Megan Proctor, H4-22
 FR Engineering: Jason Olsson, L6-06
 FR EPL: Darrin Faulk, N2-01

Attachment 1: Facility Information

Building History:

The 3621D Emergency Generator Building was constructed in 1973 as a prefabricated corrugated steel structure on a concrete floor slab. Its overall dimensions were 80-feet long by 40-feet wide and 17-feet high, including a 16 ft extension that was built in 1991 to the north end of the building. The 3621D Emergency Generator Building contained four diesel generators which provided emergency power to nine buildings in the 300 Area. Sanitary water was provided to the building, and the floor drains were connected to a French drain (WIDS 300-121) outside the southwest corner of the building.

When 3621D was originally constructed, a 4,000-gallon underground storage tank (UST) was buried off of the northwest corner of the building to store diesel fuel. In the early 1990s, new UST regulations (DOE/RL-89-12) required the removal of the UST. The original UST was replaced with a new 4,000-gallon double-walled fiberglass UST (3621-66), which was removed and closed out on January 9, 2009 (Attachment 4).

Building Characterization:

- Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3621D Building.
- Table 2 summarizes the contaminants of concern for facility demolition and the associated determination of no impact to the soil.

Table 1. Summary of Samples Collected

Type	Quantity	Method Detection Limits	Results
Radiological Scoping Survey (RSR-300-PS-07-1630)	105 random sites, plus 3 tritium smears	Beta-gamma: 1,000 removable/ 5,000 fixed ^a Alpha: 20 removable/ 100 fixed ^a	No contamination found above background on smears or direct readings. This survey supported the evaluation which concluded the facility was free of radiological contamination (WCH Radiological Record 0585362).
Industrial Hygiene Scoping Survey for Beryllium (CCN 141898)	10 Samples	Limit for Be in soils: 1.81 µg/g of soil	Be within limit for soils. Measured levels of lead, cadmium, and chromium not excessively high.
Asbestos (CCN 135953)	N/A	N/A	No samples were taken for asbestos. Large ventilation gaskets, high voltage electrical components, and fire doors presumed to contain asbestos.

^a - dpm/100 cm²

Characterization samples were collected of fuel, oil and glycol that were associated with the generators. All analytes were reported below ERDF acceptance criteria.

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Determination of no impact to the soil
Radionuclides	No radioactive contamination was encountered during facility decontamination.
Beryllium	Be was found to be within background levels for soils.
Asbestos	A visual inspection was performed of the building prior to demolition and some components were presumed to contain asbestos.

Identification of Documented Waste Sites:

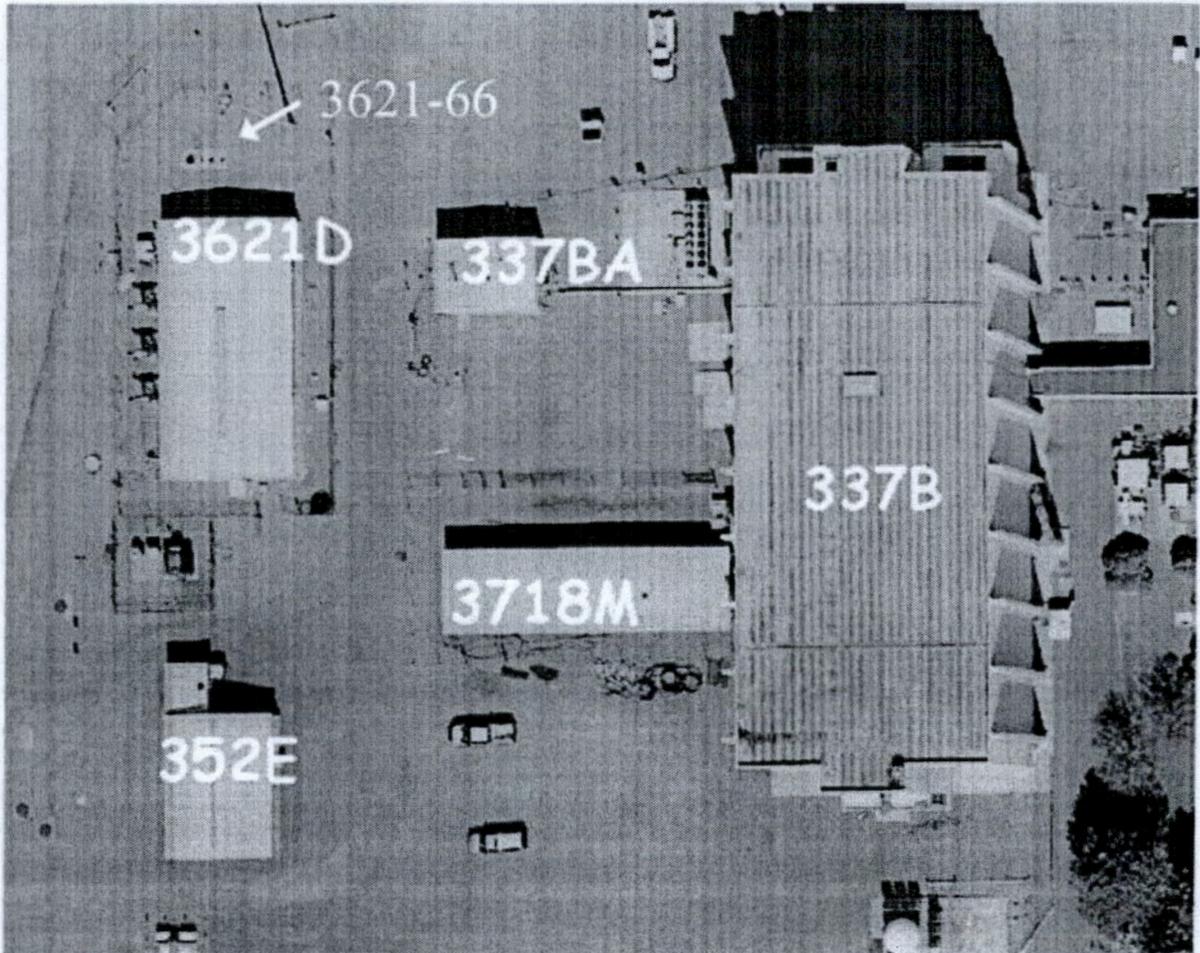
Site No.	Description	Status
300-119	Misc. Stream # 401 – 3621D Air/Condensate Blowdown Drain.	The open, rock filled corrugated metal pipe was located adjacent to the east wall of 3621D which was within the demolition footprint of 3621D and was removed by D4.
300-120	Misc. Stream #402 – 3621D Air Driven Starter Motor Discharge Drain.	The 2.9-ft diameter concrete structure was located west of 3621D and was within the demolition footprint and removed by D4.
300-118	Misc. Stream # 700 – Valve pit with floor – Pit U-7	Site is inactive and the source shut off. The stream was eliminated in 6/98. This site was outside of the demo footprint of 3621D.
300-121	Misc. Stream # 403 – Injection well # 26	The 36" diameter French drain received effluent from four floor drains in 3621D and located west of the southwest corner of 3621D. This site was outside of the 3621D demolition footprint and was not removed.

Anomalies Discovered During Demolition

No anomalies were discovered during demolition of the 3621-D facility.

Attachment 3: Project Photographs

Figure 1. Location of 3621-D Building, April 2008



North

Figure 2. 3621D Building Site, Looking Southwest, 2005

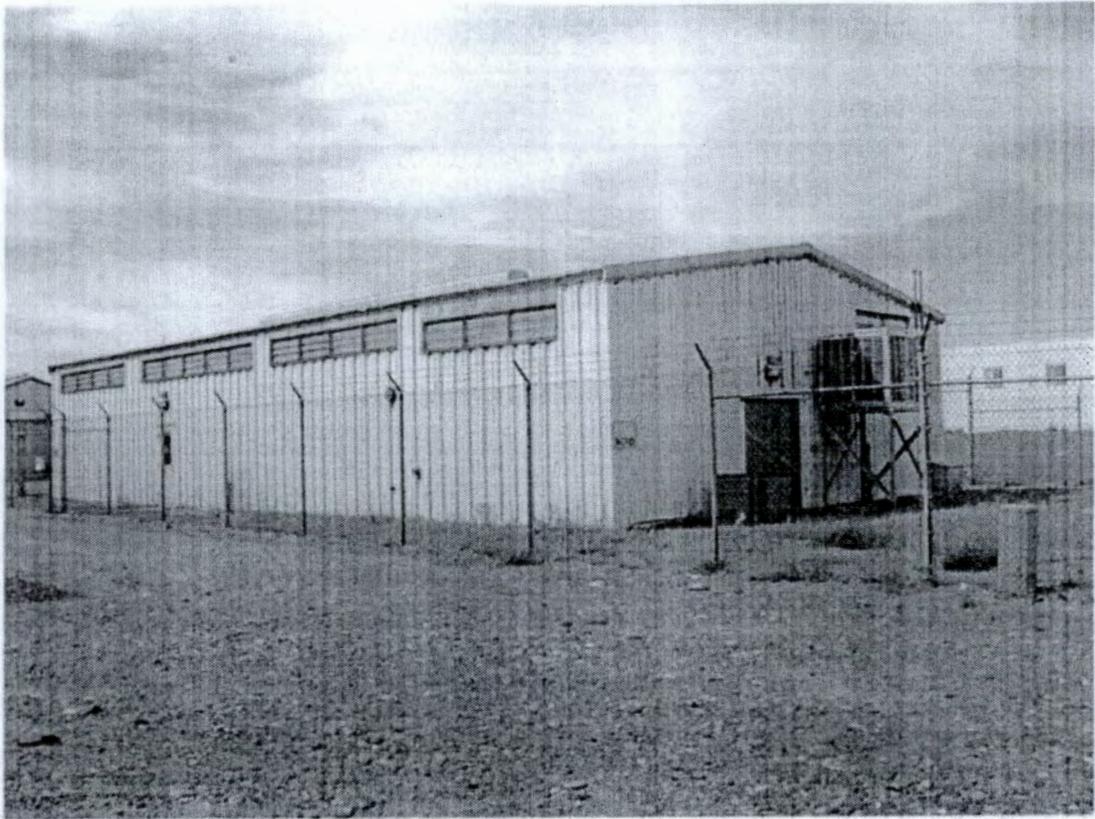
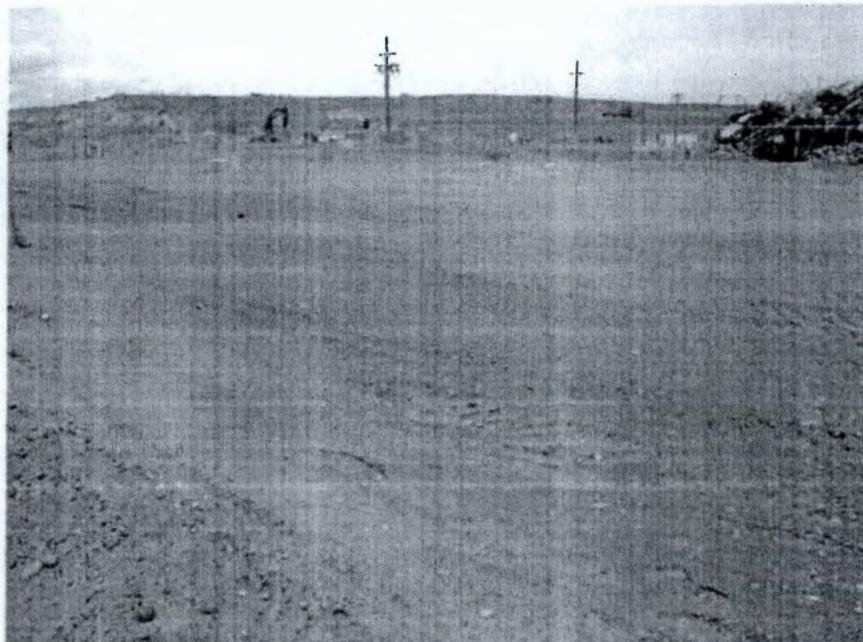
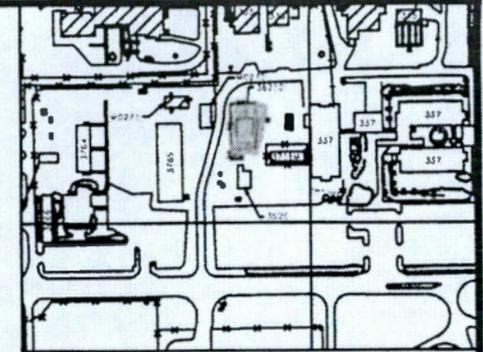
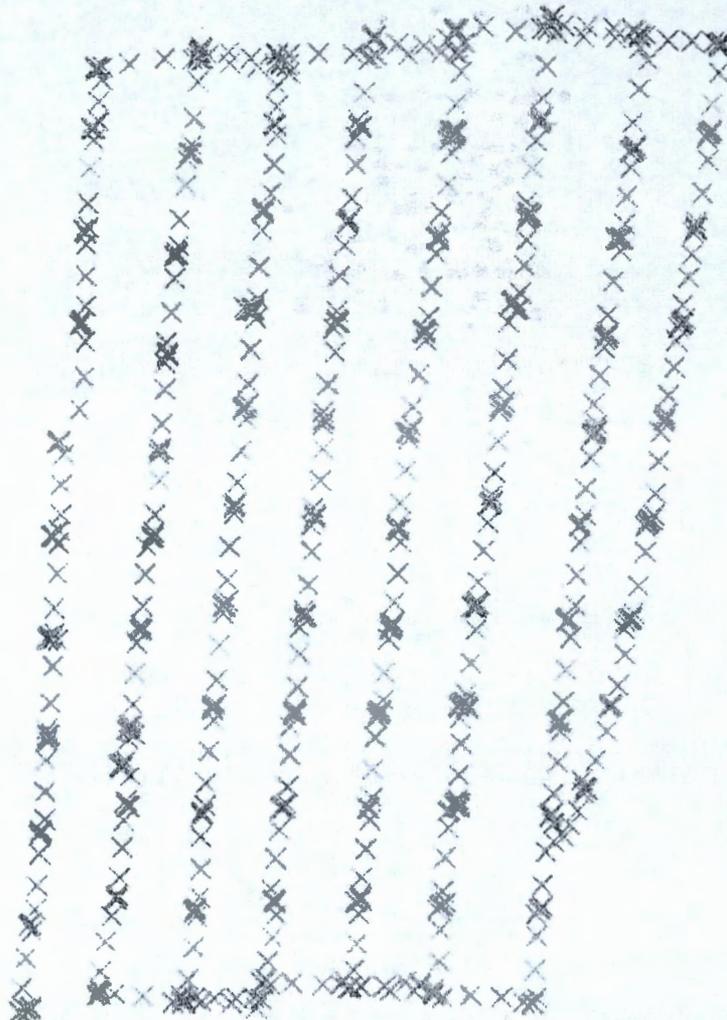


Figure 3. 3621-D Post-Demolition Site, Looking Northeast, March 2011



Attachment 3: 3621D GEPRS Survey Maps



Site View

Copy

Bkg Location - 19 m SW
431 cpm
↙

Legend

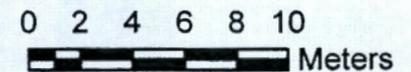
NET CPM

- × <431
- 431 - 862
- 862 - 10000
- 10000 - 25000
- 25000

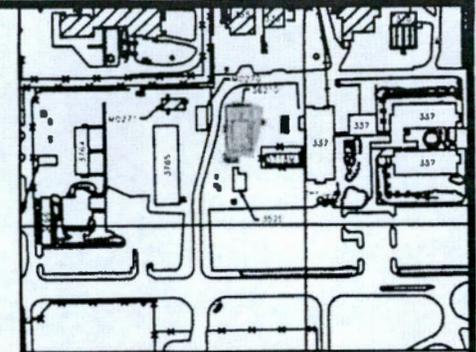
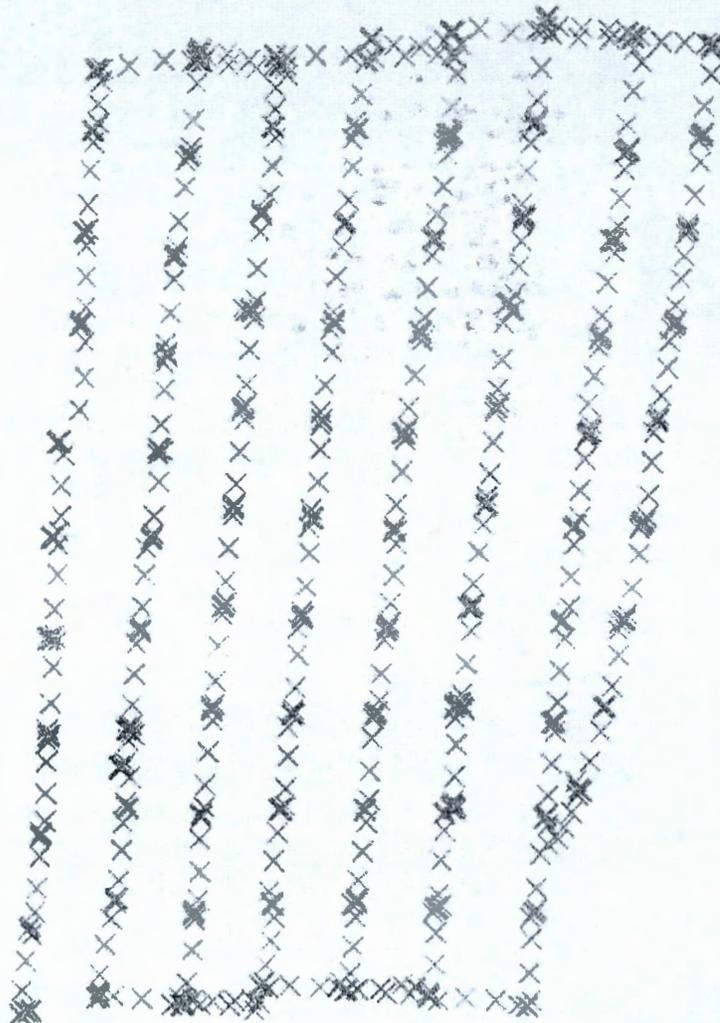
Summary Statistics

Coverage File: D4073A
Number of Data Pnts: 1150
Type of Survey: beta
Max GCPM 664
Avg Bkg CPM: 431
Survey Date: 3/14/2011
Area Surveyed: 908 m²
Project File: ESRFRM110051
Pdf File: ESRFRM110051BC

300 D4 Field Remediation 3621D Building Site GPERS Radiological Survey Beta Track Map



Survey Map Prepared By Bruce Coomer, ESI



Site View

Copy

Bkg Location - 19 m SW
1230 cpm
↓

Legend

NET CPM

- × <1230
- 1230 - 2460
- 2460 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4073A
Number of Data Pnts: 1150
Type of Survey: gamma
Max GCPM 1565
Avg Bkg CPM: 1230
Survey Date: 3/14/2011
Area Surveyed: 908 m²
Project File: ESRFRM110051
Pdf File: ESRFRM110051GC

300 D4 Field Remediation 3621D Building Site GPERS Radiological Survey Gamma Track Map

0 2 4 6 8 10
Meters



Survey Map Prepared By Bruce Coomer, ESI



White Shield, Inc.

Progressive Solutions - Traditional Values

January 9, 2009

Washington State Department of Ecology
Toxics Cleanup Program
15 West Yakima Ave -- Suite 200
Yakima, WA 98902-3452

Attention: Christina Zerby

Dear Christina:

Enclosed is a copy of the "Underground Storage Tank Site Assessment Report" for The U.S. Department of Energy Hanford Nuclear Reservation 300 Area UST 3621-661 in Richland, Washington. This Site Assessment was conducted in conjunction with the decommissioning and closure of a 4000-gallon diesel fuel tank at the site. The site assessment at this facility did not reveal evidence of a release from the UST. The owner should be relieved of any further permitting of financial obligations with regard to UST 3621-66. I am also returning the compliance tag for the tank.

Please call me if you have any questions.

Sincerely,

David R. Polivka,
Washington State Certified Site Assessor
Environmental Services Manager

Enclosures (1)

Cc: William Hayward - Washington Closure Hanford w/o compliance tag

Surveying • Environmental • Quality Control