

Control #: D4-300-016

FACILITY STATUS CHANGE FORM

Date Submitted: Jan 14, 2009 Originator: David Warren Phone: 554-9368	Area: 300 Area Facility ID: 3707D Action Memorandum: #1 for the 300 Area	Control #: D4-300-016
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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.

Decontamination and Decommissioning: The following hazardous materials were removed prior to facility demolition: oils, asbestos containing material, mercury, Freon. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work Plan #1 for the 300 Area, DOE/RL-2004-77, Revision 1 (RAWP)*.

Demolition: Demolition of the above-grade structure was completed in March 2006. The building debris were removed and disposed of at ERDF. Due to the facility histories, the demolition was performed under radiological controls.

Description of Deferral (as applicable):

The 3707D building foundation and any potential soil excavation will be deferred to the 300-28 remedial action. The foundation is located directly above and adjacent to documented waste sites. Removal of the foundation prior to waste site remediation could result in potential exposure of contaminants from the underlying soil.

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:

The 3707D Building foundation and slab remain in place. The slab is currently posted FCA (Fixed Contamination Area), and the area surrounding the pad is posted URMA (Underground Radioactive Material Area), under the 300 area general URMA posting. There are no IH postings associated with the structure.

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

See Attachment 2.

Section 3: List of Attachments

1. Facility information (building history and characterization)
2. Status of WIDS Sites associated with Building Site
3. Project photographs

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FACILITY STATUS CHANGE FORM

		Date <u>1/21/09</u>
DOE-RL	<u>Larry Gadbois</u>	Date <u>Jan 21, 2009</u>
Lead Regulator	<input checked="" type="checkbox"/> EPA <input type="checkbox"/> Ecology	Date

DISTRIBUTION:

- EPA: Larry Gadbois, B1-06
- Ecology: Rick Bond, HO-57
- DOE: Rudy Guercia, A3-04
- Document Control, H0-30
- Administrative Record, H6-08

- SIS Coordinator: Linda Dietz; H4-22 *Clearlock*
- D4 EPL: Chris Strand, L1-07
- Sample Design/Cleanup Verification: Megan Proctor, H4-22
- FR Engineering: Rich Carlson, X4-08
- FR EPL: Darrin Faulk, L6-06

Attachment 1: Facility Information

Building History:

3707D was a 76' x 115' single-story wooden structure built around a concrete and cement block structure (formerly 303-D). The age, design, and materials of the building vary from area to area. The building had a concrete slab foundation. The first configuration in 1943 was as a fuel-storage facility, designated as 303-D. This was one of nine identical buildings that were constructed as "igloo buildings".

About 1953, the facility was reconfigured to the "Operations Change House." The facility was expanded to about 76 feet by 115 feet, giving an enclosed space of about 8,505 square feet. The 303-D structure remained as the core of the building with additions on the east, west, and south. The new functions included a change building with lockers, showers, a lunch room, and offices. In 1971, the building was converted to a design center. The building was steam heated, had electrical power, and was connected to a sanitary sewer.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3707D 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 surveys and Tritium Smears	110 internal and external 2 Tritium smears	Beta-gamma – 1,000 removable/ 5,000 total ^a Alpha – 1000 removable/ 1000 total ^a (Uranium) 10,000 removable tritium ^a	All results were below method detection limits
Industrial Hygiene Scoping Surveys for Beryllium (Air and Wipe Samples)	3 air samples 19 wipe samples	Beryllium – Wipe Sampling- 0.01 µg/100cm ² Air Sampling - 0.01 µg/sample	One personal air sample Resulted in a TWA of 0.003 µg/m ³ All other personal and area air sample results were below the method's limit of detection. All wipe samples were measured to have beryllium surface levels that were less than the action level of 0.2 µg/100 cm ²
Industrial Hygiene Wipe Sampling for Beryllium- In Process and Post Demolition	12	Beryllium – Wipe Sampling- 0.01 µg/100cm ²	All wipe samples were measured to have beryllium surface levels that were less than the action level of 0.2 µg/100 cm ²
Asbestos – Thermal System Insulation and Miscellaneous Material	17	<1% weight	3 were found at levels that require removal

^a – dpm/100 cm²

Table 2. Contaminants of Concern for Facility Demolition

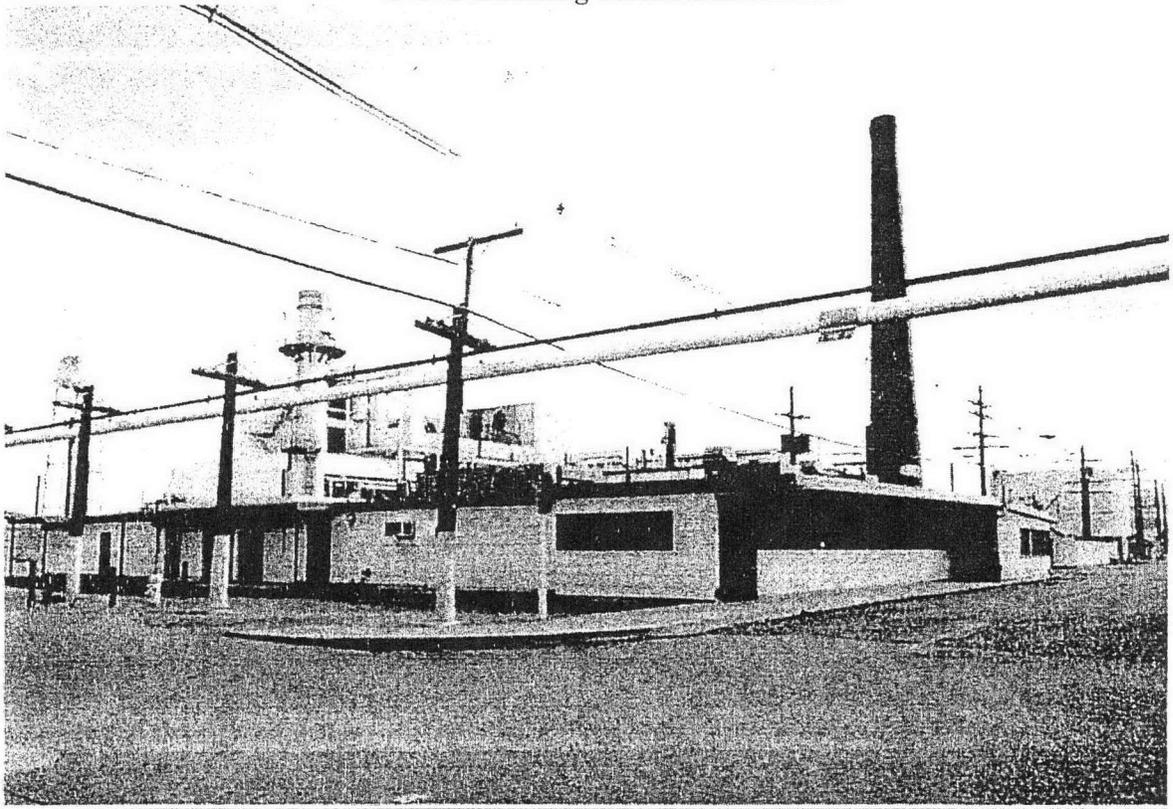
Contaminant of Concern	Determination of no impact to the soil
Radionuclides	Due to the facility history, the demolition was performed under radiological controls. After building demolition, the foundation was surveyed and downposted to Fixed Contamination Area (FCA).
Class II non-friable Asbestos	Demolition was performed in accordance with 40 CFR 61.145 (c) and 40 CFR 61.150

Attachment 2: Status of WIDS Sites Associated with the Building Sites

Site No.	Description	Status
300-160	Steam Condensate, Miscellaneous Stream #443, Injection Well #10	Rejected WIDS site which was a rectangular concrete structure used to collect steam condensate on the south side of the 3707D building.
300-161	3707D Building Stormwater Runoff, Miscellaneous Stream #441	Rejected WIDS site which received surface water runoff from a paved area adjacent to the 3707D building. Site is a 68 centimeter (27 inch) drain with a perforated metal cover located on the northwest corner of the 3707D building.
300-162	3707D Building Stormwater Runoff, Miscellaneous Stream #442	Rejected WIDS site which received surface water runoff from a paved area adjacent to the 3707D building. Site is a 68 centimeter (27 inch) drain with a perforated metal cover located on the northeast corner of the 3707D building.
300-28	Contamination Found Along Ginko Street	This accepted WIDS site is contaminated asphalt and soil beneath Ginko Street. Uranium metal dust from the fuel fabrication activities provided a pathway for heavy metal dust to become airborne and accumulate in the soils throughout the northern portion of the 300 area.

Attachment 2: Project Photographs

3707D Building before Demolition



**3707D Building Complex Site after
Demolition**

