Control #: D4-300-020

FACILITY STATUS CHANGE FORM

Date Submitted:	Area:	Control #:
3/2/2009	300 Area	D4-300-020
Originator:	**Facility ID:**	
David Warren	3716	
Phone:	**Action Memorandum:**	
554-9368	#1 for the 300 Area	

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, and 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 January of 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 3716 building foundation and any potential soil excavations will be deferred to the UPR-300-17, and 300-15 remedial action(s). 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 3716 Building foundations and slabs remain in place. The slab is clearly visible and is posted Fixed Contamination Area (FCA). There are no IH postings associated with the remaining structure.

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

UPR-300-17 is an unplanned radiological release site. It is the asphalt area at the southeast corner of the 333 Building and the north side of the 3716 building.

300-15 is the 300 Area process sewer system. It is an underground process sewer extending throughout the 300 Area for the disposal of process wastes such as steam condensate.

Section 3: List of Attachments

1. Facility information (building history and characterization)
2. Project photographs

Control #: D4-300-020

Acrobat 8.0

FACILITY STATUS CHANGE FORM

DOE-RL	Date 3/4/09
Lead Regulator: ☒ EPA ☐ Ecology	Date 3-5-2009

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
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:

The 3716 Building was a 4,800 square feet corrugated metal, steel framed structure resting on a reinforced concrete slab. It was originally constructed in the 1940's as the TC-36 Automotive Repair Shop. The structure was mounted 1.3m (4 ft) above grade on concrete wall with concrete floor slab on grade. In 1962, the building was relocated from its original location to a site just south of the 333 building and renamed as the Metallurgical Development Laboratory.

As such, it served as an engineering pilot plant to develop alternate fuel fabrication processes, including the Hot Die Size (nickel plating) process. In late 1969, a 500-ton vertical extrusion press was installed to aid several experimental fuel fabrication processes. Later on, most of the fabrication piloting operations were consolidated into the 306 building, leaving the 3716 building as a storage building for uranium fuel supplies and fabrication equipment.

The building had electrical power, a process water supply, and connections to both sanitary and process sewers. The 3716 building was posted as a Radiologically Controlled Facility. The 3716 building is on the Hanford Beryllium Facilities list.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3716 Building. Table 2 summarizes the contaminants of concern for facility demolition and the Management Practices implemented to minimize spread of those contaminants.

Table 1. Summary of Samples Collected

Type	Quantity	Method Detection Limits	Results
Radiological Scoping surveys	4 Survey reports with multiple smear and direct survey points	Beta-gamma – 1,000 removable/ 5,000 total [a] Alpha – 20 removable/ 100 fixed [a]	The highest reading for fixed contamination was 60,000 beta-gamma and less than 5000 alpha. All measurements for removable contamination were below method detection limits.
Post Demolition Radiological Surveys	One survey report with 60 smears	Beta-gamma – 1,000 removable/ 5,000 total [a] Alpha – 20 removable/ 100 fixed [a]	All readings were below method detection limits.
Industrial Hygiene Scoping Surveys for Beryllium (Wipe Samples)	50 wipe samples	Beryllium – Wipe Sampling- 0.01 µg/100cm^2	Of the 50 samples, 23 were found to have beryllium surface levels greater than the release criteria of 0.2µg/100cm^2
Industrial Hygiene Sampling for Beryllium- In Process and Post Demolition(Bulk Sampling)	10 Bulk Samples	Beryllium – Bulk Samples- 0.02 µg/sample	All ten bulk samples were measured at levels below the local background release criterion of 1.81 µgram/gram
Asbestos – Thermal System Insulation and Miscellaneous Material	14	<1% weight	4 were found to have levels that require removal

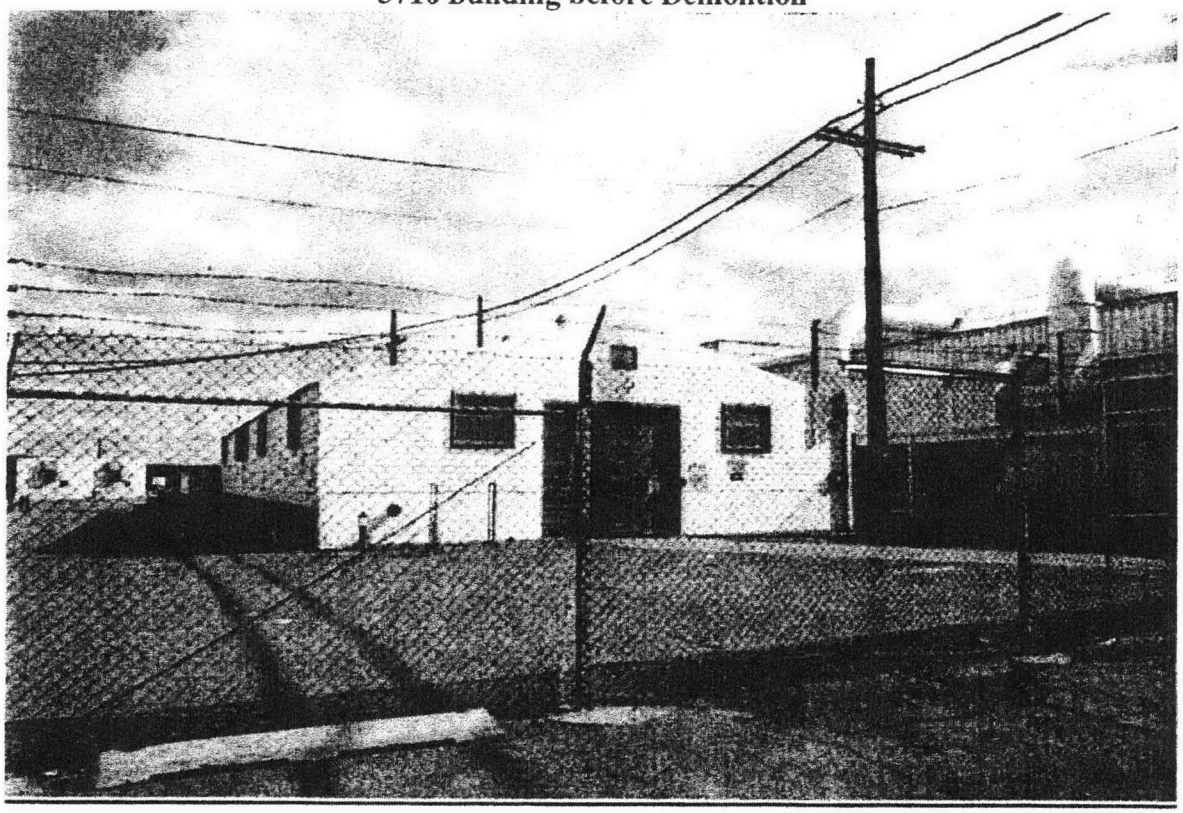
[a] – dpm/100 cm^2

Table 2. Contaminants of Concern for Facility Demolition

Contaminant of Concern	Management Practice
Radionuclides	Due to the facility history, the demolition was performed under radiological controls. After building demolition, the foundation was downposted to Fixed Contamination Area (FCA).
Beryllium	Building interior was locked down prior to demolition. Visual inspection of the demolition area was performed.
Class II non-friable Asbestos	Demolition was performed in accordance with 40 CFR 61.145 (c) and 40 CFR 61.150

Attachment 2: Project Photographs

3716 Building before Demolition



3716 Building Complex Site after Demolition