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age 1 of 2

# FACILITY STATUS CHANGE FORM

Date Submitted:		Area:	Control #:			
Jul 9, 2012		300 Area	D4-300-055			
Originator:		Facility ID:				
John Harrie		3746 & 3746A				
Phone:		Action Memorandum:				
509.308.9935		Action Memorandum #3				
This fo t	rm documents agreements agreements agreement in the disposition of underly	it among the parties listed below on ring soil in accordance with the app	the status of the facility D&D operations and licable regulatory decision documents.			
	All D4 operations require	d by action memo complete				
	All D4 operations required by action memo complete.					
لسا	D4 operations required by action memo partially complete, remaining operations deterred.					
Descrip	otion of Completed Activi	ities and Current Conditions:				
Deactiva	ation: Utility isolations were	performed on the facility prior to beginnin	g facility decontamination.			
accordar	nce with Removal Action Wor	k for 300 Area Facilities, DOE/RL-2004-	77, Revision 2 (RAWP).			
Demolit slabs wa Asbestos Radiolog Descrip None	ion: Above-grade demolition is completed in March of 2012 s abatement was performed un gical and Industrial Hygiene o option of Deferral (as appli	of the facilities was completed in August 2, and backfilled in June of 2012. The bunder the supervision of Asbestos Certified controls. cable):	of 2007. Below-grade demolition of the foundation ilding debris were removed and disposed of at ERDF Workers. The demolition was performed with			
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### FACILITY STATUS CHANGE FORM

2012 Date DOE-RL N Madlois 2012 EPA X Ecology Date Lead Regulator **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: Chris Strand, L7-10

### **Attachment 1: Facility Information**

#### **Building History:**

The 3746 Irradiation Physics Building, constructed in 1945, was a 72.5' x 30.5', one-story, wooden building with a gable roof. 3746 had ten rooms comprised of a small electronics laboratory; a shop; a dark room; a storage room; two restrooms and four offices. The building was cooled with a swamp cooler and heated with steam. The original wood siding was covered with asbestos transite shingles and interior transite wall surface was replaced with gypsum drywall sometime in the 1970s or early 1980s. 3746 provided support space for personnel associated with health physics and research including testing composition of process substances and calibration of TLDs.

The 3746A Radiological Physics Laboratory, constructed in 1976, was a 97; x 52', one-story, concrete block structure built on a concrete slab at grade. The original building housed four offices, seven laboratories and support rooms, a water purification room and a mechanical room of various sizes including the cell biology laboratory; a tissue culture laboratory; the instrumentation development and microdosimetry room; an X-ray room, two radiation and biochemistry laboratories and a microspecrofluorimetry room. In 1981, four additional offices and two laboratories were built. The building was connected to the process sewer and the laboratory space for the PNNL Radiological Science Department, Washington State University and for 300 Area craft personnel.

#### **Building Characterization:**

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3746 and 3746A Buildings.

Туре	Date	Documented In	Results Summary			
Pre-Demolition						
Asbestos	April 24, 2007	CNN 133476	ACM was found in floor tile, mastic and pipe insulation in 3746 and 3746A. 3746 was sheathed with transite siding.			
IH Surveys and Beryllium Characterization	Oct 27, 2011	CNN # 162504	Slabs were cleared for Be.			
Radiological Surveys	August 22, 2005, November 14, 2005 January 7, 2006.	RSR-300PS-05-0742 RSR-300PS-05-1135 RSR 300PS-06-0253.	No radiological contamination was identified.			

#### Table 1. Summary of Characterization Surveys at the 3746 and 3756A.

#### **Associated WIDs sites:**

300-15 (300 Area Process Sewer).

#### **Anomalies Discovered During Demolition.**

No anomalies were discovered during the demolition of 3746 and 3746A. Soil beneath the slabs displayed no visual evidence of staining or discoloration.

## **Attachment 2: Project Photographs**



Figure 1: 3746 and 3746A on March 21, 2006



North

3746 & 3746A FACILITY COMPLETION



Figure 3. 3746A Building on July 9, 1978



3746 & 3746A FACILITY COMPLETION



Figure 4. 3746 and 3746A after above-grade demolition on July 16, 2008

North

3746 & 3746A FACILITY COMPLETION

Figure 5. Looking north at 3746 and 3746A following below-grade demolition on March 27, 2012.



Figure 6. Looking south at 3746 and 3746A following backfill on June 13, 2012.



**Attachment 3: GPERS Survey** 

