

Control #: D4-300-017

FACILITY STATUS CHANGE FORM

Date Submitted: Jan 21, 2009 Originator: David Warren Phone: 554-9368	Area: 300 Area Facility ID: 304, 304A Action Memorandum: #1 for the 300 Area	Control #: D4-300-017
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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, 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 February 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 304 and 304A building foundations and any potential soil excavations will be deferred to the UPR 300-43 WIDS Site 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 304 and 304A Building foundations and slabs remain in place. The slab is currently covered with gravel to protect fixed contamination areas on the foundation, and is posted URMA (Underground Radioactive Material Area) under the 300 area general URMA posting. A small portion of the 304A stemwall remains exposed on the east side of the slab. Surveys show no removable contamination in this area. 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.

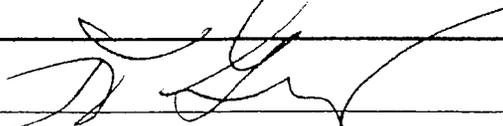
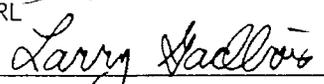
Section 3: List of Attachments

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

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FACILITY STATUS CHANGE FORM

		1/22/09
DOE-RL	Date	
	Jan 21, 2009	
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
- 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 304/304A Building was a 31' x 48' (1,500 square feet) corrugated metal structure resting on a reinforced concrete slab, with an un-insulated corrugated metal roof. The 304 Uranium Concretion Facility was used to store uranium scraps waiting for reclamation. The facility was used to solidify pyrophoric uranium scraps in a concrete matrix. The 304A building was added on to the east side of 304 building later and was used as a change room. The building had electrical power, and was connected to process sewer.

The 304/304A buildings were posted as a Radiological Contamination Area and a Radiological Material Area. There were fixed contamination areas posted around the facility. The interior metal and concrete surfaces and the paving around the outside of the building had fixed contamination. The 304/304A buildings were on Hanford Beryllium Facilities list.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 304 and 304A Buildings. 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	25 internal and external smears	Beta-gamma – 1,000 removable/ 5,000 total ^a	Levels of fixed contamination ranged from less than detectable, to a high of 277,000 Beta-gamma. Fixed alpha contamination levels were less than detectable. Levels of removable contamination were less than detectable for both Beta-gamma and alpha. All results were below method detection limits
	Multiple direct survey points	Alpha – 1000 removable/ 1000 total ^a (Uranium)	
	2 Tritium smears	10,000 removable tritium ^a	
Post Demolition Radiological Surveys	One report with multiple direct survey points	Beta-gamma – 1,000 removable/ 5,000 total ^a Alpha – 1000 removable/ 1000 total ^a (Uranium)	All results were below method detection limits
Industrial Hygiene Scoping Surveys for Beryllium (Air and Wipe Samples)	14 wipe samples	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 The area air sample result was below the method's limit of detection.
	1 air sample	Air Sampling - 0.01 µg/sample	

Type	Quantity	Method Detection Limits	Results
Industrial Hygiene Wipe Sampling for Beryllium- In Process and Post Demolition	20	Beryllium – Wipe Sampling- 0.01 µg/100cm ²	Of the 20 wipe samples, one was measured to have beryllium surface contamination that were greater than the action level of 0.2 µg/100 cm ²
Asbestos – Thermal System Insulation and Miscellaneous Material	3	<1% weight	All samples for asbestos were less than the method detection limit.
^a – dpm/100 cm ²			

Table 2. Contaminants of Concern for Facility Demolition

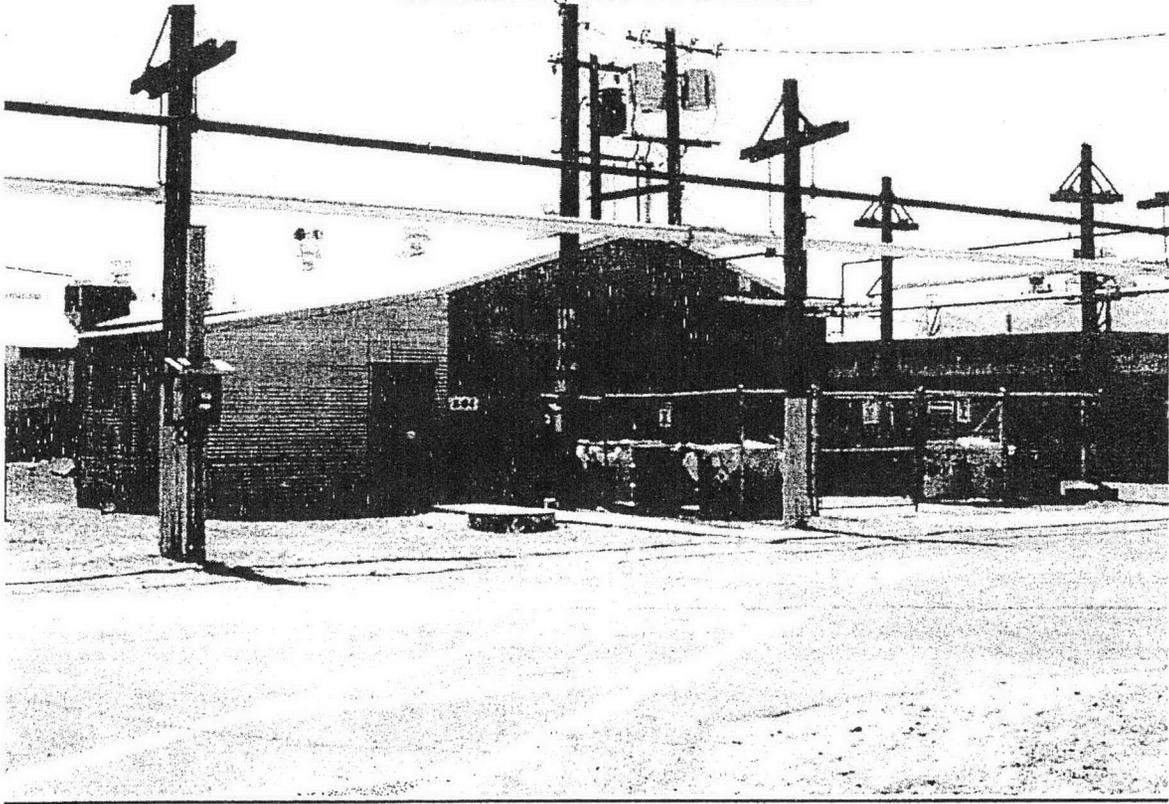
Contaminant of Concern	Determination of no impact to the soil
Radionuclides	Due to the facility history, the demolition was performed under radiological controls. After building demolition, the foundation was covered with gravel and downposted to Underground Radioactive Material Area (URMA).

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

Site No.	Description	Status
304 CF	304 Concretion Facility	304-CF was the TSD associated with the 300 Area Waste Acid Treatment System. The TSD was clean closed in November 1995. No further actions are required for this waste site.
304 SA	Concrete pad on the north side of the building	304 SA was the storage area associated with 304-CF. The storage area was clean closed with 304-CF. No further actions are required for this waste site.
300-249	Residual contamination that was not closed out as part of the 304 Concretion Facility	300-249 consists of the residual radioactive contamination on the surfaces inside the 304 building. The building slab is the remaining portion of this waste site. The remaining portion of the waste site will be deferred to the remedial action project.
300-43	Uranium contaminated soil around the 304 Building	These sites are addressed under the 300-FF-2 CERCLA documentation, and will be remediated by the FR project.
300-15	300 Area Process Sewer	

Attachment 2: Project Photographs

304 Building before Demolition



304 Building Complex Site after Demolition

