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Control #: D4-300-101

FACILITY STATUS CHANGE FORM

Date Submitted:	Area:	Control #:
October 28, 2014	300 Area	D4-300-101
Originator:	**Facility ID:**	
Chris Strand	351A, 351B (B3S4)	
Phone:	**Action Memorandum:**	
554-2720	Action Memorandum #1	

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: PCB contaminated oils,batteries, Freon, lights, light ballasts, asbestos containing materials, mercury switches, tritium exit signs, 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). Asbestos removal was conducted by certified asbestos workers.

Demolition: Above-grade demolition of the 351 Substation was completed in October of 2014. Below-grade structures that include a cable vault, footings, and foundations remain in place. The above-grade building debris were removed and disposed of at ERDF. The demolition was performed under radiological and Industrial Hygiene controls.

Description of Deferral (as applicable):

Below-grade portions of the 351 Substation are deferred to pending remediation of the 300-4 waste site and a segment of 300-15 process sewer waste site.

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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:

Below-grade portions of the 351 Substation remain in place pending remediation of the 300-4 and 300-15 waste sites. Remaining structures include a cable vault, footings, and foundations. No GPERS surveys were conducted as underlying and adjacent soils will be evaluated following remediation of the 300-4 and 300-15 waste sites. Radiological and Industrial Hygiene postings remain in the area.

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

300-4 (uranium yellow cake)
300-15 (process sewer)

Section 3: List of Attachments

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

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DOE-RL		Date 10/29/14
Lead Regulator	☒ EPA ☐ Ecology	Date 11/5/14

DISTRIBUTION:

EPA: Dennis Faulk, B1-46
Ecology: Rick Bond, H0-57
DOE: Rudy Guercia, A3-04
Document Control, H0-30
Administrative Record, H6-08 (300-FF-2 OU)

SIS Coordinator: Ben Cowin, H4-22
D4 EPL: Chris Strand, L5-45
Sample Design/Cleanup Verification: Theresa Howell, H4-23
FR Engineering: Eric Ison, L4-39
FR EPL: Chris Strand, L5-45

Attachment 1: Facility Information

Facility History:

The 351 Substation was originally constructed in 1949, when it was known as the 352-A Substation. The Substation originally distributed power to the 300 Area, but the facility evolved and expanded as the needs of the 300 Area grew. The substation in its final configuration consisted of the 351A and 351B Buildings, associated infrastructure that were collectively referred to as B3S4. The 351 Substation was located northwest of the former 313 Building and was operational through April of 20014 when it underwent deactivation.

Facility Description:

The 351-A Building was a steel-frame, metal Butler building with corrugated metal walls and roof. The floor consisted of a 4 inch reinforced concrete slab, with 6 inch thick reinforced concrete foundations. The building was initially constructed in about 1952, with 6 foot extensions made to both ends of the building in 1961. The 351-A Building was initially constructed as service building for workers at the 351 substation. More recently it also housed meter and testing equipment to support the substation.

The 351-B Switchgear Building was initially constructed in 1969 and consisted a 36 foot by 40 foot prefabricated steel building with a 15 foot by 11 foot extension on the south end of the structure that held a battery room. The floor was 6 inch to 10 inch thick reinforced concrete. An 8 foot deep reinforced concrete vault ran through the center of the building and was accessible through two manholes within the building floor. 1980, 40 foot by 30 foot addition was made to the northeast side of the existing building. The addition was a prefabricated metal building on a 4 inch concrete slab. A 6 foot wide by 6 foot deep cable trough ran through the building to support the electrical switchgear equipment. A restroom was included in the northwestcorner of the addition. The 351-B Building housed switchgear, batteries, and other electrical equipment in support of the substation.

The substation included steel towers, breakers and other high voltage distribution equipment that rested on concrete pads and foundations.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 351 Substation.

Table 1. Summary of Characterization Surveys at the 352F Substation.

Type	Date	Documented In	Results Summary
Pre-Demolition			
Asbestos	May 1, 2014	CCN 176392	Asbestos containing materials identified consisted primarily of Category II non-friable, some limited friable asbestos was present.
IH Surveys and Beryllium Characterization	June 24, 2010 June 24, 2010 April 25, 2012	CCN 151718 (351A) CCN 151717 (351B) CCN 165859	All contaminants below action levels. All contaminants below action levels. 351 Substation determined Be free.
Radiological Surveys	All conducted in June, 2014.	RSR-300PS-14-1902 (substation yard) RSR-300PS-14-1903 (351A) RSR-300PS-14-2018 (351B) RSR-300PS-14-2036 (351B vault) RSR-300PS-14-2084 (substation yard) RSR-300PS-14-2085 (substation yard)	One instance of fixed radiological contamination identified. Naturally occurring radiological materials in the form of ceramic insulators were present.

Associated WIDs sites:

300-4 – uranium yellow cake contamination.
300-15 – process sewer segment.

Anomalies Discovered During Demolition.

No anomalies were discovered during the demolition of the 351 Substation. No soil staining was observed around demolished facilities. A final soils evaluation will be conducted following remediation of the underlying 300-4 and 300-15 waste sites.

Attachment 2: Project Photographs

Photograph 1: 352F Substation looking north, 2003.

Photograph 2: Aerial view of the 351 Substation, October 2013.

Photograph 3. Aerial view of 351 demolition progress, looking north, September 29, 2014.

Photograph 4. 351 Substation site following above-grade demolition and load-out, looking southeast, October 27, 2014.

Photograph 5. 351 Substation site following above-grade demolition and load-out, looking northeast, October 27, 2014.