

FACILITY STATUS CHANGE FORM

Date Submitted: August 8, 2013 Originator: Chris Strand Phone: 554-2720	Area: 300 Area Facility ID: 331H Action Memorandum: Hanford General Decommissioning	Control #: D4-300-088
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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 completed on the facilities prior to demolition.

Decontamination and Decommissioning: Hazardous materials were removed prior to demolition and included oils, grease, mercury, and asbestos. Asbestos was removed by certified asbestos workers.

Demolition of the above and below-grade structures were completed in July of 2013. The debris was removed and disposed of at ERDF.

Description of Deferral (as applicable):

None.

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 excavation was backfilled with clean material following GPERS surveys. No radiological or Industrial Hygiene postings remain.

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

300-15; process sewer segments remain in the area.

Section 3: List of Attachments

1. Facility Information (building history and characterization).
2. Project photographs.
3. GPERS surveys.

DOE-RL

Date

N/A

Lead Regulator

EPA

Ecology

Date

FACILITY STATUS CHANGE FORM

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D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-23

FR Engineering: Eric Ison, L1-13

FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Building History

The 331-H Plant Exposure Facility was constructed in 1979 just north of the 331-F Building. This one-story concrete block structure measured 53 ft by 65 ft and was erected on concrete foundations and slab. The roof was a flat, built-up roof covered with gravel. In 1980, a 13 by 30 ft metal lean-to was attached to the northwest corner of the original building. This lean-to contained a wind tunnel room, a growth chamber alcove, two air locks, mechanical equipment rooms, change rooms, and an entry area. An HVAC lean-to building containing HEPA filters was located on the west side of the building, along with a concrete pad that contained a power transformer and an emergency generator.

The 331-H building provided space to accommodate exposure equipment required for performing advanced stages of research on plants. Experiments typically involved exposing plants to various aerosols and actinide elements in the wind tunnel.

331H Building Characterization:

Table 1. Summary of Characterization Surveys at 331H

Type	Date	Documented In	Results Summary
Asbestos	June 20, 2011	CCN # 159262	Category I and II materials present in the form of gaskets, putty, floor tile, and mastic.
IH Surveys and Beryllium Characterization	April 15, 2013	BFA-331H-13-001	Building determined to be Be free prior to demolition. All other contaminants of concern below action levels.
Radiological Surveys	January 18, 2012 January 23, 2012	RSR-300PS-12-0212 RSR-300PS-12-0215	No radiological contamination identified.

Identification of Document Waste Sites:

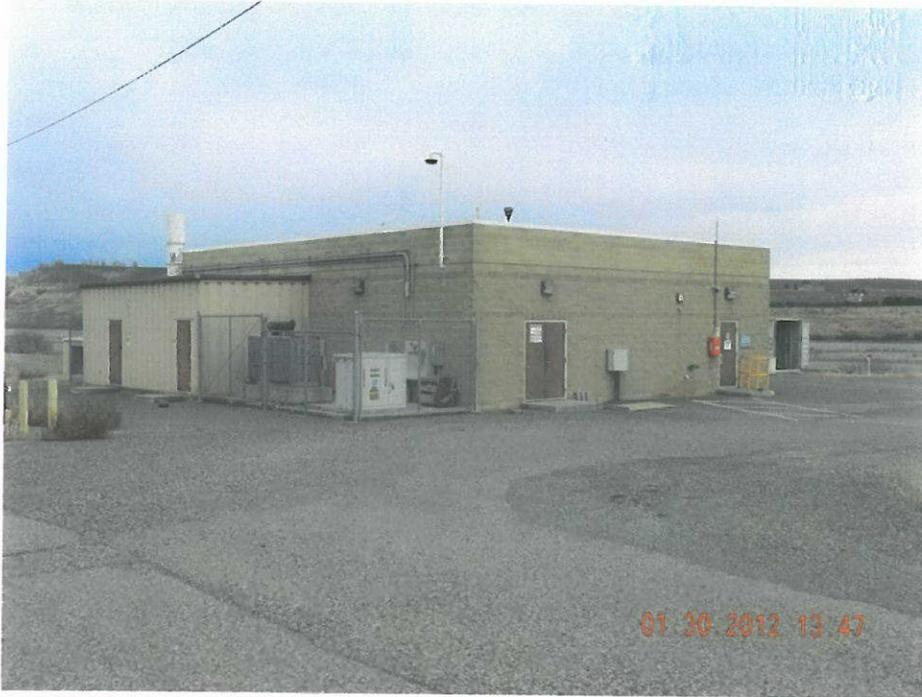
300-15 (process sewer) piping serviced 331H.

Anomalies Discovered During Demolition:

No anomalies were discovered during the below-grade removal of 331H. No soil staining within the excavation was observed and GPERS surveys identified no radiological contamination. The excavation was backfilled with clean fill material.

Attachment 2: Project Photographs

Photograph 1: 331H, looking northeast on January 20, 2012.



Photograph 2: 331H excavation following below-grade demolition, looking west on July 22, 2013.



Photograph 3: 331H following backfill, looking east on August 7, 2013



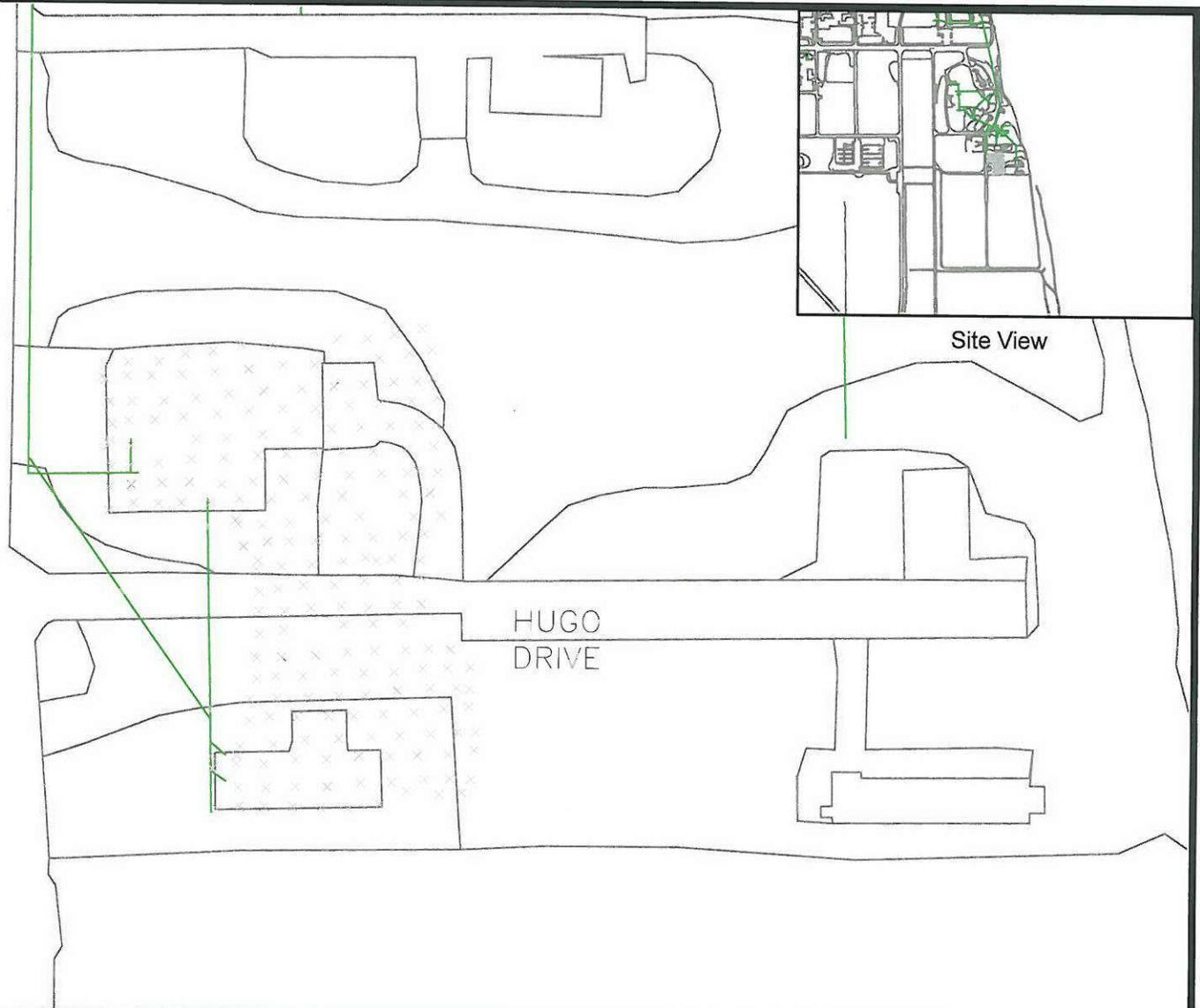
**Attachment 3: GPERS Surveys
(Beta and Gamma Tracks)**



Bkg Location
1250 m NW
351 cpm



Site View



Copy

Legend

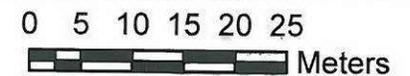
NET CPM

- × <526
- 526 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_199'
 Number of Data Pnts: 244
 Type of Survey: beta
 Max GCPM: 631
 Avg Bkg CPM: 351
 Survey Date: 7/19/2013
 Area Surveyed: 1600 m²
 Project File: ESRFRM130057B
 Pdf File: ESRFRM130057BC

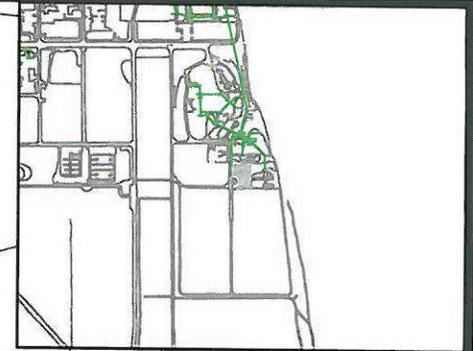
300 D4
331-G, H
GPERS Radiological Survey
Beta Track Map



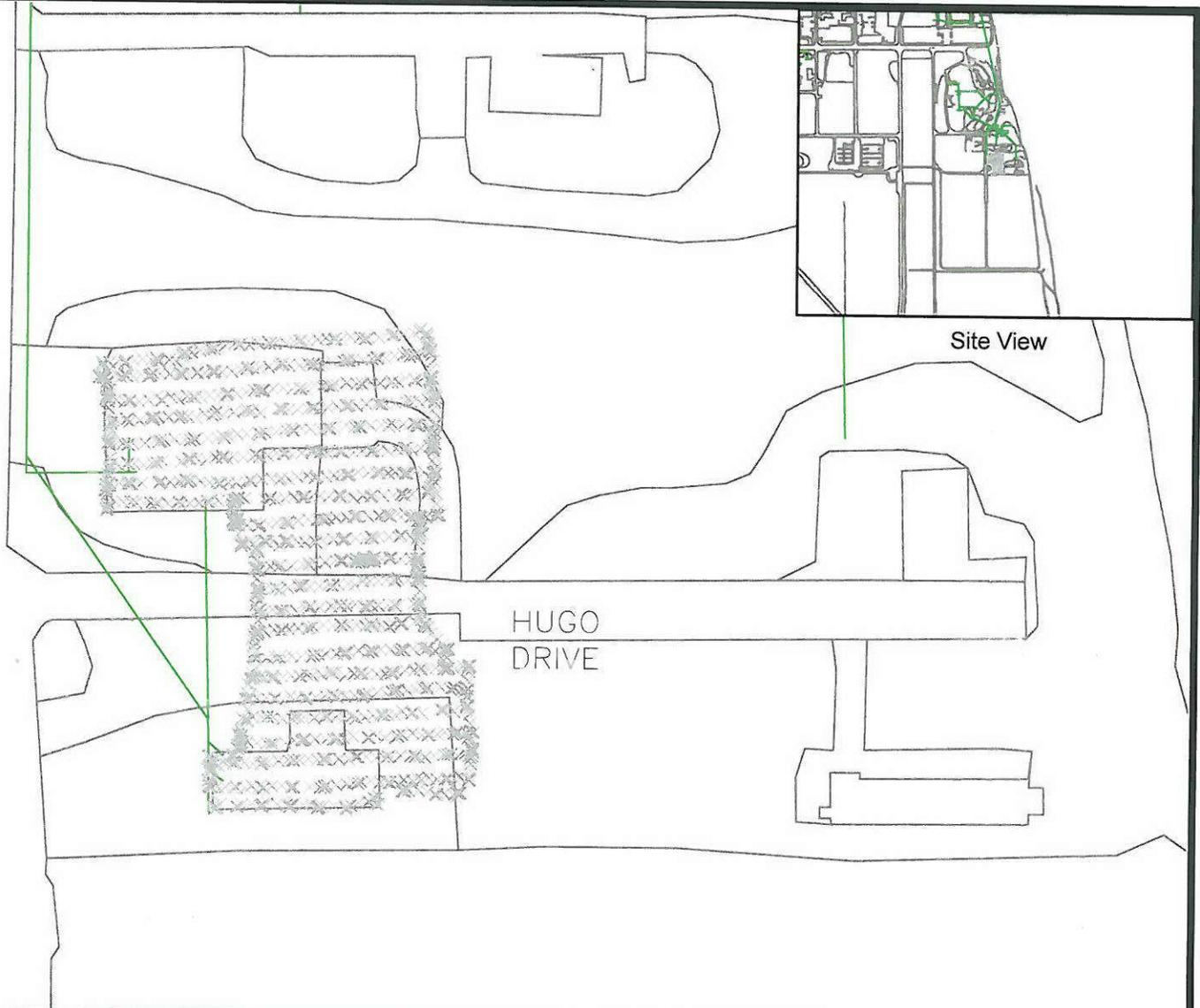
Survey Map Prepared By Bruce Coomer, ESI



Bkg Location
1250 m NW
1154 cpm



Site View



Copy

Legend

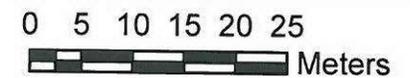
NET CPM

- × <1731
- 1731 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_199
Number of Data Pnts: 3378
Type of Survey: gamma
Max GCPM: 1622
Avg Bkg CPM: 1154
Survey Date: 7/19/2013
Area Surveyed: 1600 m²
Project File: ESRFRM130057G
Pdf File: ESRFRM130057GC

**300 D4
331-G, H
GPERS Radiological Survey
Gamma Track Map**



Survey Map Prepared By Bruce Coomer, ESI