

FACILITY STATUS CHANGE FORM

Date Submitted: Feb 9, 2011 Originator: David Warren Phone: 539-6040	Area: 100-N Area Facility ID: 1707-N Action Memorandum: 100-N Ancillary Facilities	Control #: D4-100-N-0006 rev.1
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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:

This Facility Status Change Form (FSCF) presents previously submitted information, and additional information as necessary, that documents completion of D4 activities at Hanford Facility 1707-N River Patrol Boat House. The previously submitted information, "D4 Project Soils and/or Below Grade Structures Completion Form, 1707-N River Patrol Boat House" (Document Number D4-100N-0006) does not conform to a current project requirement that specifies "each completed form must be signed by the DOE-Richland Operations Office (RL) and lead regulator project manager." This FSCF contains those required signatures.

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:

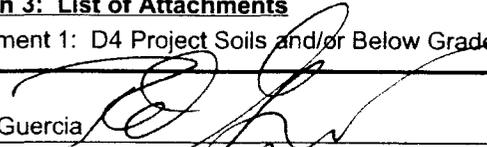
See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1707-N River Patrol Boat House

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

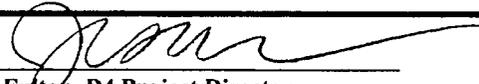
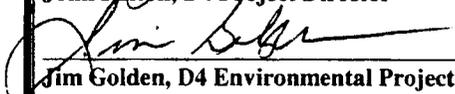
See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1707-N River Patrol Boat House

Section 3: List of Attachments

Attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1707-N River Patrol Boat House

Rudy Guercia  DOE-RL Rick Bond  Lead Regulator	Date 2/16/11 Date 3/1/11 Date
<input type="checkbox"/> EPA <input checked="" type="checkbox"/> Ecology	

D4 Project Soils and/or Below Grade Structures Completion Form 1707N River Patrol Boat House

Date Submitted: 9/12/06 Originator: S. E. Killoy Phone: 373-5473	Associated Building/ Facility: 1707N River Patrol Boat House Associated Action Memorandum: Action Memorandum 100N Ancillary Facilities	Document Number: <u>D4-100N-0006</u>
This form, documents that the soil and/ or below grade structures meet the requirements of the Associated Action Memorandum.		
<u>Basis for Determination (attach pertinent documentation):</u>		
<p>The D4 activities for 1707N have been completed in accordance with the requirements of the action memorandum.</p> <p>There are no indications of releases of hazardous materials from the facility; this determination was based on documented project knowledge of the facility operation and data collected during the demolition of the facility. The basis for this determination is supported as follows:</p> <ul style="list-style-type: none"> • The area was not a previously posted as a radiological area nor was the area previously identified within WIDS. UPR-600-17, "600 Area Patrol Boat Spill", is listed as inactive on the Environmental Information System. This spot is located on the concrete boat ramp immediately to the north of the previous location of 1707N. The boat ramp was not disturbed during demolition activities and was left in place. • Radiological surveys were completed after building demolition and before soil re-grading and no radiological contamination was identified. • Process history. • The Post Demolition Summary report identifies UPR-600-17 as "inactive," this WIDS site has actually been reclassified as a "rejected" WIDS site. <p>Detailed information pertaining to waste profiles, radiological survey data and sampling data are contained within the demolition summary report (CCN#128267).</p>		
 _____ John Fulton, D4 Project Director	<u>9-12-06</u> _____ Date	
 _____ Jim Golden, D4 Environmental Project Lead	<u>9/12/06</u> _____ Date	

ES/FR Data Transfer Checklist

- Reviewed Facility Operation and WIDS?
Yes. The WEDS site UPR-600-17 has been rejected
- Reviewed Waste Data?
Profile # 100N007
- Reviewed Rad Data?
RSR's are referenced in the PSDR.
- Reviewed Sample Data?
NA
- Functional Review?
Yes.
- GPS Data Provided?
Yes
- Items Discovered During Demolition Provided?
None were discovered.
- Rad Survey Data Provided?
Yes. RSR's are referenced in the PSDR
- Waste Profile Numbers Provided?
Profile # 100N007
- CVP Provided?
NA
- Photo Files Provided?
hard copy

ES/FR Data Transfer Checklist

LARADS/ GEPRS files Provided?

Yes. 15/12.

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Hanford

Interoffice Memorandum

128267

TO: R. R. Nielson X5-50

DATE: September 5, 2006

COPIES: See Below
Records and Document Control H0-30

FROM: J. W. Crocker *James Crocker*
100 Area D4 Characterization
X5-50/376-4058

SUBJECT: **POST-DEMOLITION SUMMARY REPORT FOR THE 1707N RIVER PATROL
BOAT HOUSE**

Attached is the Post-demolition Summary Report for the 1707N River Patrol Boat House at the 100-N Area. This report documents the final status of the immediate ground area at the facility site after completion of D4 activities. The information in this report includes references to radiological surveys, waste profiles used to ship debris to the ERDF, and a status of WIDS sites associated with these facilities.

Please contact myself at 376-4058, or Dave Encke at 373-9733, for questions about this information.

DBE:jwc

Attachment: Post-demolition Summary Report for the 1707N River Patrol Boat House

Copies (all w/a):
R. H. Bidstrup X0-18
F. S. Brim X5-50
J. W. Crocker X5-50
R. G. Egge X5-50
D. B. Encke X5-50
J. W. Golden L1-04
B. C. Griff X5-50
I. D. Jacques L1-04
S. E. Killoy X5-50
E. Y. Lauber X5-50
C. R. Watson X5-50

Post Demolition Summary Report for the 1707N River Patrol Boat House

September 2006

Site Information

This post demolition summary report covers the 1707N River Patrol Boat House at the 100N Area.

The 1707N Boathouse was a 500 ft² (46.5 m²), pre-engineered, metal building supported on a reinforced concrete slab foundation. The structure had a roll-up door at each end, one door was non-functional. A concrete boat ramp led from the boat house to the river water line.

A Historical Site Assessment was developed for this facility (WCH 2006).

Demolition activities occurred at 1707N during July 2006.

Radiological and Industrial Hygiene Surveys

Pre-demolition and work progress radiological surveys were performed at 1707N. See RSR-IFSM1-06-0099 and RSR-IFSM1-06-0102.

An IH baseline survey was not performed at this facility. See WCH 2006c for the justification for not performing an IH Baseline Survey.

GPERS surveys were completed after building demolition and before soil re-grading. Both beta and gamma track GPERS surveys found no radiological contamination. The GPERS surveys are included as Figures 3 and 4.

Waste and other Characterization Samples

1707N did not contain materials requiring characterization sampling, therefore no characterization samples were taken. See historical site assessment for more information.

Waste Profiles

Waste profile 100N007 was used to disposition generated waste for disposal at ERDF.

Post Demolition Radiological Survey

A GPERS survey was performed at this structure. See GPERS surveys in Figures 3 and 4.

Civil Survey Information (GPS, including elevation)

GPS civil surveys were performed at 1707N. Copies of these surveys are provided as attachments at the end of this report.

Status of WIDS Sites Associated with Building Site

UPR-600-17, "600 Area Patrol Boat Spill", is listed as inactive on the Environmental Information System. This spot is located on the concrete boat ramp immediately to the north of the previous location of 1707N. The boat ramp was not disturbed during demolition activities and was left in place.

Post Demolition Summary Report for the 1707N River Patrol Boat House

September 2006

Anomalies Discovered during Demolition

No anomalies were discovered during the demolition of the 1707N River Patrol Boat House.

Hazmat Removal

Hazardous material removal was completed at the 1707N prior to demolition. The hazmat package number is 2005 09 20 002, Attachment Y. There was no asbestos at 1707N.

Cost Performance Information

As of August 24, 2006 the charges accumulated for the 1707N Boathouse are \$42,900.

Lessons Learned

Demolition of this facility was performed within close proximity to the Columbia River. The potential for building debris and water runoff to enter the river were concerns during the planning of the facility demolition. In order to mitigate these issues straw bales and silt fence were utilized to prevent potential runoff from entering the river. In addition, dust suppression water was not used during the demolition. These precautions, and careful demolition of the facility, resulted in a successful demolition operation with no water, debris, or other material entering the river.

Additional Information

No samples were needed to be taken at this facility. Process knowledge, historical information, and facility walk downs were sufficient to disposition wastes generated during D4 activities.

Final Building Status

The 1707N building and the concrete pad it was directly over were demolished and removed. The concrete boat ramp leading from the roll up doors of the boat house to the river was left in place. The excavation was back-filled to minimize tripping hazards (see Excavation Permit DAN-2592-1).

Documentation

Documents referenced in this summary are available through the Document Control organization

References

WCH, 2006a, *Historical Site Assessment for 1707-N / 100-N Area*, IOM 127184, April 27, 2006, Washington Closure Hanford, Richland, Washington.

WCH, 2006b, *Asbestos Inspection Report for 1707-N / 100-N*, IOM 127183, April 26, 2006, Washington Closure Hanford, Richland, Washington.

WCH, 2006c, *IH Baseline Survey for Building 1707-N*, IOM 127610, May 10, 2006, Washington Closure Hanford, Richland, Washington.

**Post Demolition Summary Report for the
1707N River Patrol Boat House**

September 2006

Figure 1 – 1707N Patrol River Boat House Before Demolition (Facing North)

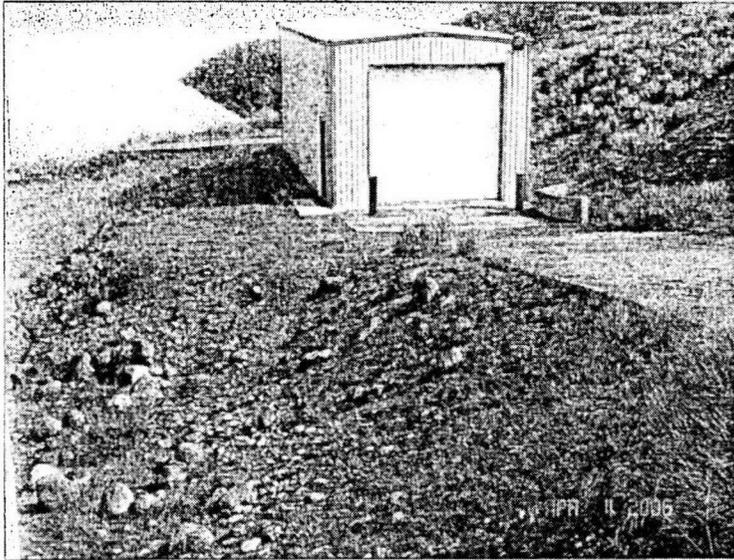


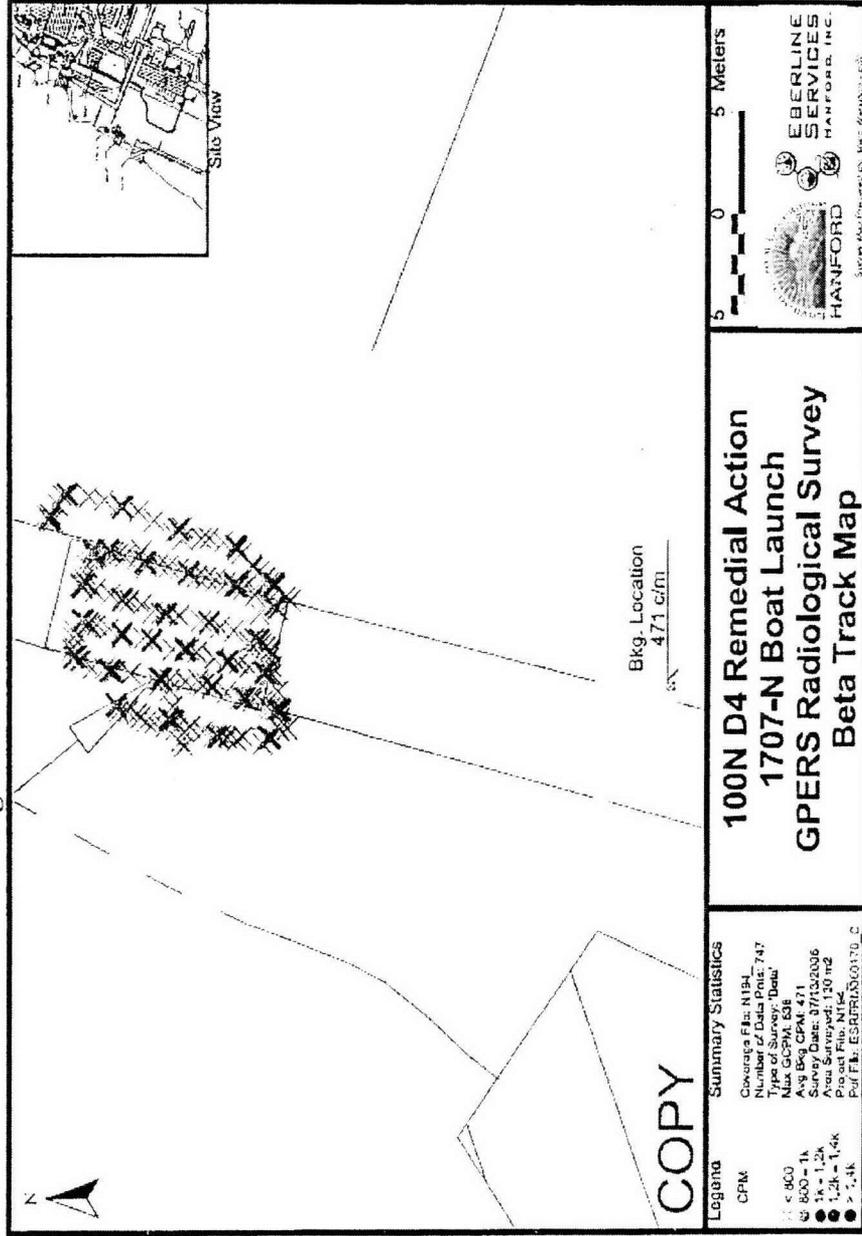
Figure 2 – 1707N Patrol River Boat House After Demolition (Facing South)



Post Demolition Summary Report for the
1707N River Patrol Boat House

September 2006

Figure 3 – GPERS Beta

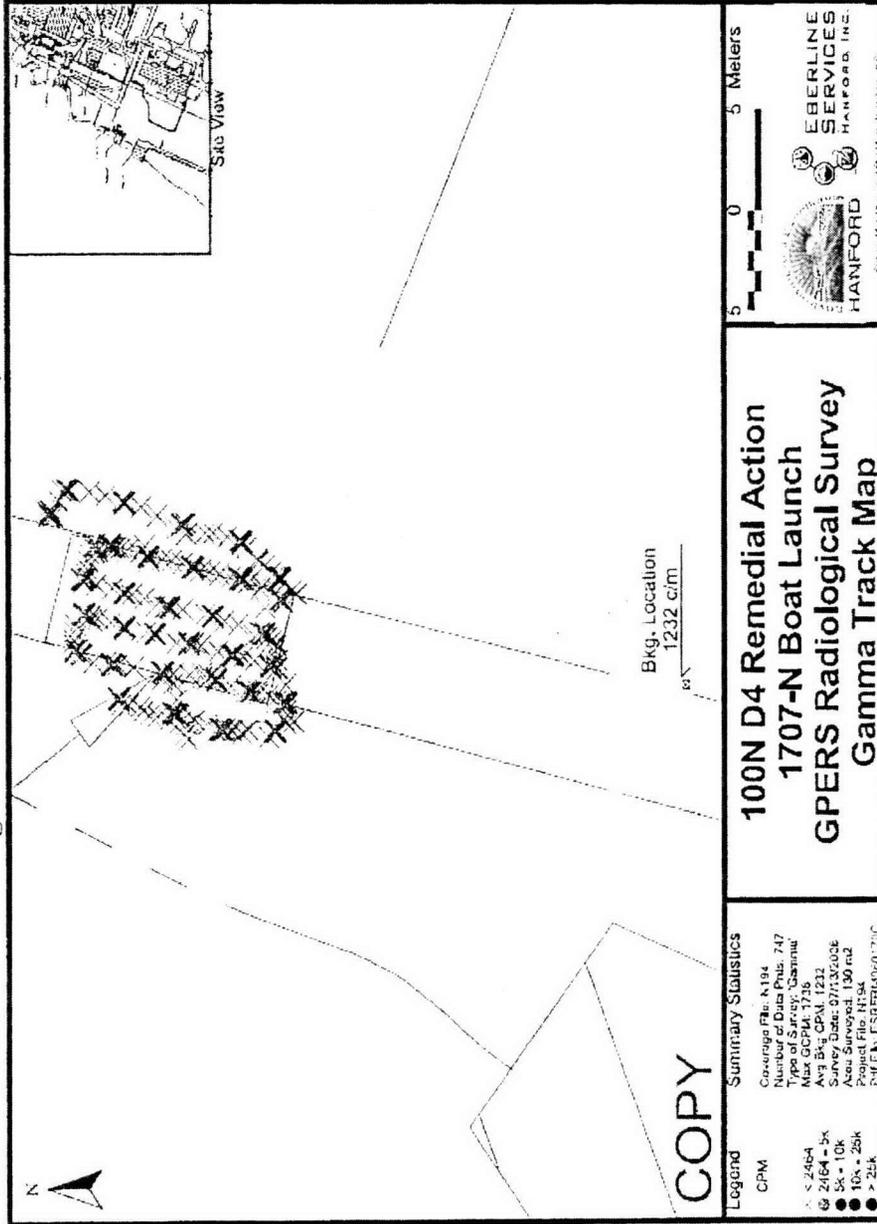


Survey

Post Demolition Summary Report for the
1707N River Patrol Boat House

September 2006

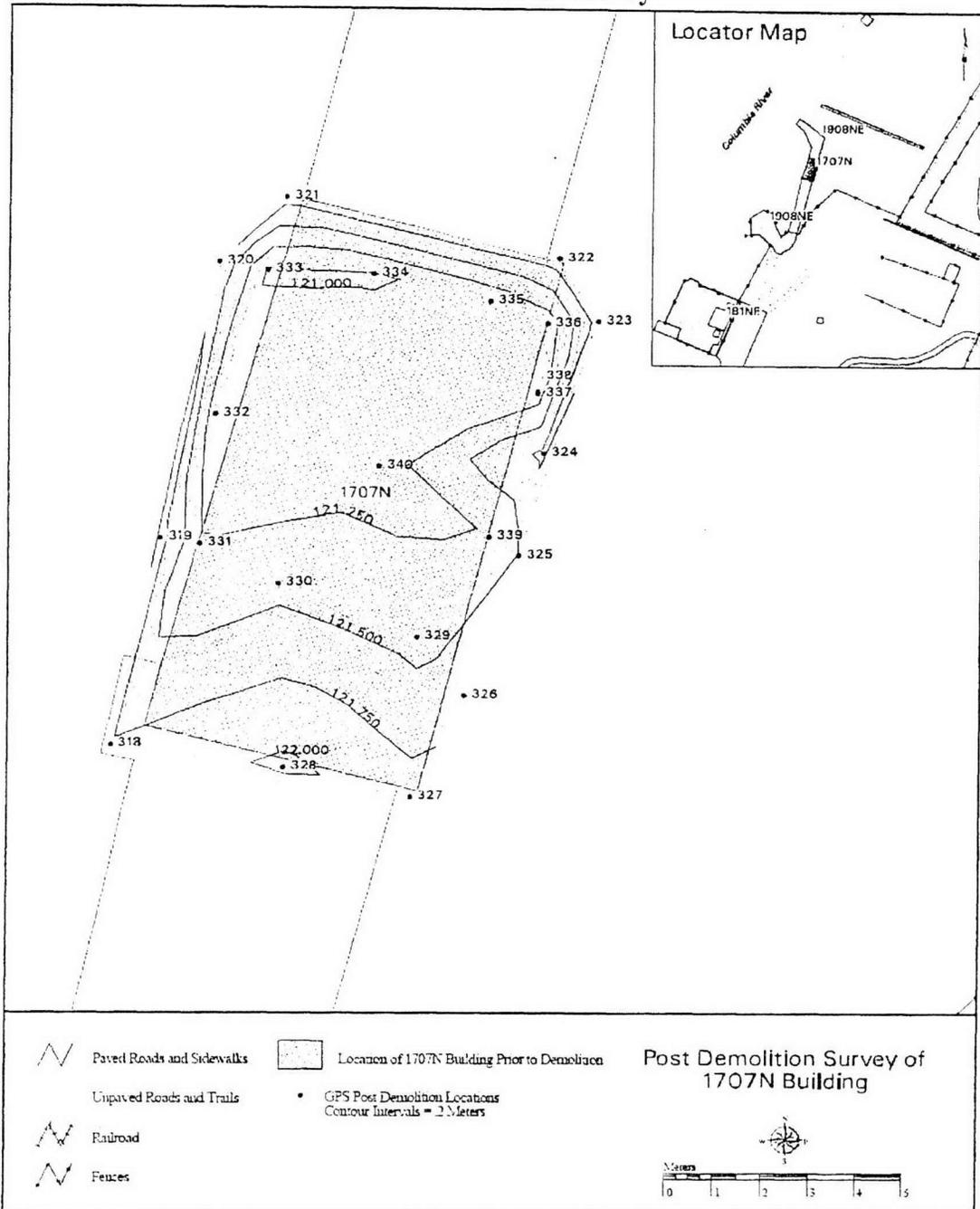
Figure 4 – GPERS Gamma Survey



Post Demolition Summary Report for the 1707N River Patrol Boat House

September 2006

Attachment 1 – Civil Survey



**Post Demolition Summary Report for the
1707N River Patrol Boat House**

September 2006

Survey Data Report

Project : 100-N

User name	maaye	Date & Time	3:13:10 PM 8/1/2006
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAD83	Geoid Model	GEOID99 (Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Survey Project Name/Title: 1707N Excavation
 Survey Purpose: Survey the post demolition of 1707N
 Requested By: Amy Hood
 General Site Location: 100N
 Charge Code:
 Field Surveyor: Margo Aye
 Computer Software Used: Trimble Survey Controller, and Geomatics
 Office V.11
 Survey Equipment Used: 5800
 Control Monuments Used: 100N-4
 Survey Method: RTK
 Estimated Horizontal Precision: .020m
 Estimated Vertical Precision: .050m
 Fieldwork Start Date: 7/24/06
 Fieldwork Completion Date: 7/24/06
 Notes:

Name	Feature Code	Northing	Easting	Elevation	Description
318	excav-bndry-top	149342.820	570889.898	121.768	
319	excav-bndry-top	149347.408	570890.882	121.844	
320	excav-bndry-top	149353.533	570892.085	121.718	
321	excav-bndry-top	149354.967	570893.458	121.845	
323	excav-bndry-top	149352.253	570899.926	121.859	
324	excav-bndry-top	149349.312	570898.805	121.793	
325	excav-bndry-top	149347.036	570898.308	121.504	
326	excav-bndry-top	149343.929	570897.185	121.640	
327	excav-bndry-top	149341.651	570896.058	121.858	

**Post Demolition Summary Report for the
1707N River Patrol Boat House**

September 2006

328	excav-bndry-top	149342.308	570893.463	122.057
329	excav-bndry-toe	149345.219	570896.215	121.412
330	excav-bndry-toe	149346.408	570893.339	121.423
331	excav-bndry-toe	149347.287	570891.718	121.262
332	excav-bndry-top	149353.648	570899.113	121.901
332	excav-bndry-toe	149350.153	570891.994	121.120
333	excav-bndry-toe	149353.361	570893.057	120.984
334	excav-bndry-toe	149353.278	570895.232	120.987
335	excav-bndry-toe	149352.684	570897.713	121.049
336	excav-bndry-toe	149352.181	570898.855	121.084
337	excav-bndry-toe	149350.636	570898.674	121.128
338	excav-bndry-toe	149350.681	570898.701	121.131
339	excav-bndry-toe	149347.452	570897.717	121.265
340	middle	149349.009	570895.396	121.137

WCH Washington
Closure
Hanford

Interoffice Memorandum

127184

TO: C. R. Watson X5-50

DATE: April 27, 2006

COPIES: See Below
Records and Document Control H0-30

DB Encke
FROM: D. B. Encke
D&D Characterization
X5-50/373-9733

SUBJECT: **HISTORICAL SITE ASSESSMENT FOR 1707-N / 100-N AREA**

Attached is the Historical Site Assessment (HSA) for the 1707-N Boat House.

This report contains a summary of information to assist in the planning and preparation to deactivate, decontaminate, and demolish this structure. This HSA is based upon site walkdowns and review of historical documents and drawings.

Information in this report includes a summary of hazardous materials which might be present in this facility, provides a brief summary of the available historical information, and denotes issues which could impact demolition activities.

Please contact myself, at 373-9733, or James Crocker at 376-4058, if you have any questions regarding this information.

DBE:jwc

Attachment(s): Historical Site Assessment for the 1707-N Boathouse

Copies (all w/a)

D. A. Bigby, X5-50
G. J. Borden, X5-50
F. S. Brim, X5-50
M. D. Cranston, X5-60
J. W. Crocker, X5-50
L. A. Dietz, H0-23
D. W. Eckert, X7-75
R. G. Egge, X5-50
D. B. Encke, X5-50
J. W. Golden, L1-04
D. W. Hanson, X5-50

L. J. Hebdon, X0-34
G. G. Hopkins, L1-01
I. D. Jacques, L1-04
W. L. Jones, X5-50
E. Y. Lauber, X5-50
R. R. Nielson, X5-50
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WASHINGTON CLOSURE HANFORD D4 FACILITY CHARACTERIZATION HISTORICAL SITE ASSESSMENT FOR THE 1707-N BOAT HOUSE

April 2006

1.0 FACILITY IDENTIFICATION AND TYPE

Name: 1707-N Boathouse

This small storage building is located on the bank of the Columbia River, between the 181-N and 181-NE River Water Pump Houses.

Building Types (I, II, or III): This building is Type II.

Type II facilities have the potential for contamination to be released to the environment during decommissioning and demolition activities. At least one biological contamination vector was identified because mud dauber nests are present. Additionally, numerous recesses in the construction providing potential locations for additional mud dauber nests and potentially other contamination from biological vectors. Mud dauber nests have been identified as radiological contamination sources in other facilities at 100N. Therefore the potential exists for releases to the environment during deactivation, decontamination, decommissioning, and demolition (D4) activities from radiological materials.

Precautions will be taken to reduce and attempt to eliminate the threat of release.

2.0 GENERAL PHYSICAL DESCRIPTION

The 1707-N Boathouse is a 500 ft² (46.5 m²), pre-engineered, metal building supported on a reinforced concrete slab foundation. The structure has a roll-up door at each end, one door is non-functional. A concrete boat ramp leads from the boathouse to the river water line.

3.0 HISTORICAL OPERATIONS (LEAKS, SPILLS, ETC.)

This structure was used to house river patrol craft, and is no longer in use. One known gasoline spill occurred during refueling of the river patrol boat. For details, see Section 6.1.

4.0 CURRENT OPERATIONAL STATUS

The 1707-N Boathouse is empty and is no longer in use.

5.0 EXPECTED CONTAMINANTS OF CONCERN AND WASTE FORMS

5.1. Radiological Contaminants:

Based on historical knowledge and radiological scoping surveys, there is no identified radiological contamination in this building.

**WASHINGTON CLOSURE HANFORD D4 FACILITY CHARACTERIZATION
HISTORICAL SITE ASSESSMENT FOR THE 1707-N BOAT HOUSE**

April 2006

However, a number of mud dauber nests are present and they are in locations that are not readily surveyed, such as in high spots and in inaccessible crevices. Because mud dauber nests at other 100N buildings have been identified as radiological contaminant sources, the mud dauber nests at 1707-N should be considered as potentially radiologically contaminated.

5.2. Hazardous Material Contaminants:

5.2.1. Asbestos:

An asbestos inspection was conducted by a certified AHERA inspector on March 15, 2006. No potential asbestos containing materials were identified. This inspection report is pending release.

5.2.2. Beryllium:

This structure is not on the Hanford Site Beryllium List (<http://www.hanford.gov/safety/beryllium/suspect3.htm>). There is no known pathway or source for beryllium contamination in this building, based on process knowledge and available documentation.

5.2.3. Lead:

Lead is not known to be part of the construction of this type of building, and no available historical records or other information indicates presence of lead compounds or objects.

5.2.4 Mercury:

No historical records or other information indicates the presence of mercury or mercury containing devices or equipment in this building.

5.2.5 Polychlorinated biphenyls (PCBs):

No historical records or other information indicates the presence of PCBs or PCB-containing devices or equipment in this building.

5.2.6 Refrigerants:

No air conditioning units were observed at this building. Historical records did not indicate the use of any other refrigerants.

**WASHINGTON CLOSURE HANFORD D4 FACILITY CHARACTERIZATION
HISTORICAL SITE ASSESSMENT FOR THE 1707-N BOAT HOUSE**

April 2006

6.0 ENVIRONMENTAL RESTORATION CONCERNS

The following WIDS sites are in relative proximity to the 1707-N Boathouse:

- 6.1. UPR-600-17, 600 AREA PATROL BOAT SPILL (inactive): On August 17, 1986, gasoline was spilled inside a patrol boat during refueling operations, and gasoline was discharged from the boat to the shoreline. The area is periodically flooded as the river level changes daily and seasonally. Because the site is periodically flooded by the Columbia River, and since the spill occurred in 1986 and has dissipated over that time, no trace of the gasoline spill is expected to remain.

- 6.2. 1908-NE, 1908-N OUTFALL (active): The 1908-N Sealwell (outfall) served as a sump for several discharge lines, and to drop the liquid discharge level for overflow to the river. The outfall also discharged to a flume which was used as an alternative to the river pipelines. An unknown level of radioactive contamination exists within the structure because the discharge lines were associated with the reactor secondary steam system. 1908-NE is located on the Columbia River shoreline, near the 1707-N Boathouse.

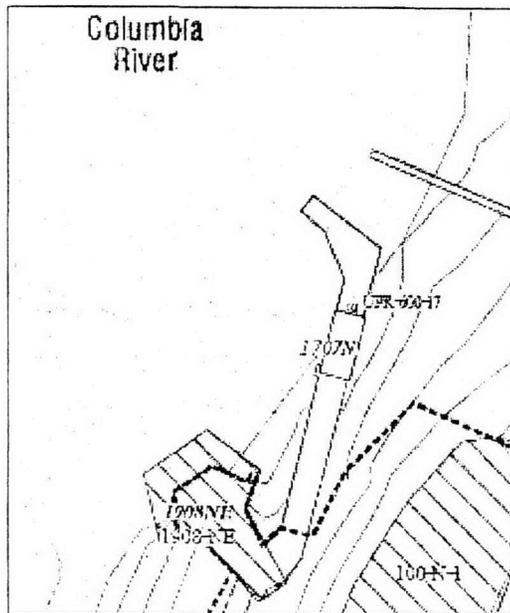
- 6.3. 100-N-1, HGP SWMU #6, HGP SETTLING POND (inactive): The Hanford Generating Plant (HGP) Settling Pond was constructed to control the HGP waste stream effluents. This unit was located between the HGP Seal Well (1908-E) and the 185-N Building. The site has been remediated and interim closed out.

For more information refer to the online Environmental Information Systems WIDS database.

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HISTORICAL SITE ASSESSMENT FOR THE 1707-N BOAT HOUSE

April 2006

WIDS Sites Near 1707-N



7.0 OTHER

N/A

8.0 REFERENCES

BHI 1994, "Pre-Existing" Conditions Survey of Hanford Site Facilities by Bechtel Hanford, Inc.
– Phase II, BHI-00221, Bechtel Hanford, Inc., Richland, Washington.

BHI 1995, 100N Facility Endpoint Criteria and Turnover Documentation, CCN# 0521161,
Bechtel Hanford, Inc., Richland, Washington.

Drawings:

H-1-46231, Sh 1, BOAT LAUNCH FACILITY PLAN / ELEV / SECT

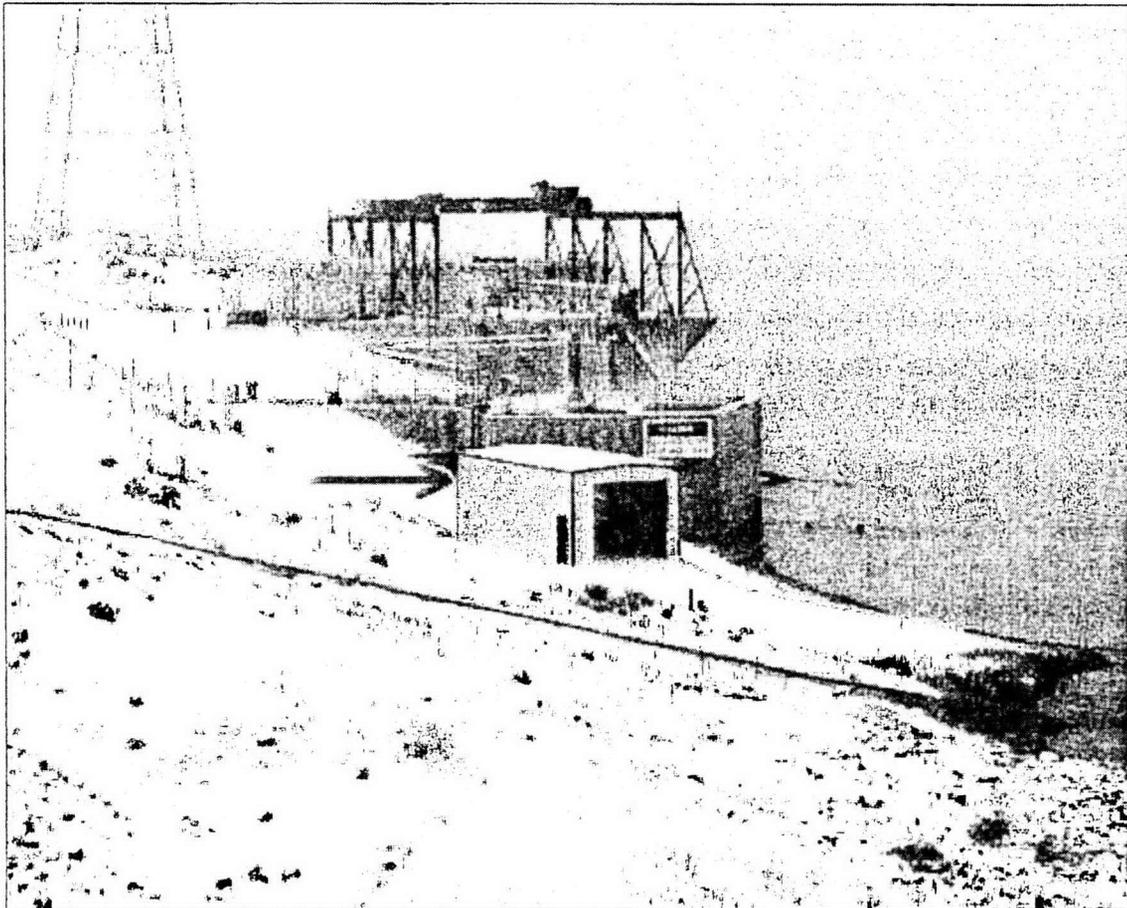
H-1-46231, Sh 2, BOAT LAUNCH FACILITY PLAN / PROFILE / SECT DETS

WASHINGTON CLOSURE HANFORD D4 FACILITY CHARACTERIZATION
HISTORICAL SITE ASSESSMENT FOR THE 1707-N BOAT HOUSE

April 2006

9.0 BUILDING IMAGE

Figure 9.1 – 1707-N Boathouse



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FR Engineering: Rich Carlson, N3-30
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