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Waste Site Reclassification Form

Date Submitted: 9/1/1999	Operable Unit(s): 200-CW-2	Control Number: 99-070
Originator: B. H. Ford	Waste Site ID: UPR-200-W-47	
Phone: 372-9176	Type of Reclassification Action:	
	Rejected <input checked="" type="radio"/> Closed-Out <input type="radio"/> No Action <input type="radio"/>	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The site is an unplanned release of contaminated cooling water from the 216-S-16 Pond (WIDS site 216-S-16P). In June 1958 and again in April 1959, a break in the REDOX Cooling Water Swamp (216-S-16P) dike occurred. Contaminated process cooling water from REDOX affected an area 140 meters (150 yards) west and 270 meters (300 yards) north and south of the pond dike boundary. The ground was contaminated to a maximum reading of 750 millirads/hour. The 216-S-16 Pond was backfilled in 1975. In 1984, the pond was surface stabilized. The borrow area used to obtain the backfill and stabilizing soil is located within the general area flooded by the dike releases. The borrow area is listed in WIDS as site 200-W-25.

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Basis for reclassification:

This site is recognized as an unplanned release unit that may require cleanup action. It is one of several unplanned releases that occurred during use of the 216-S-16 Pond (WIDS site code 216-S-16P). Information regarding this release will be incorporated into 216-S-16P and will be addressed during disposition activities for the pond. This site has been consolidated with the 216-S-16P Pond.

<u>BRYAN L. POLEY</u> DOE Project Manager	<u>Bryan J. Foley</u> Signature	<u>1/26/00</u> Date
<u>Douglas R. Sherwood</u> EPA Project Manager	<u>Douglas R. Sherwood</u> Signature	<u>1/25/00</u> Date

**Waste Information Data System
General Summary Report**

10/7/1999

Site Code: UPR-200-W-47	Site Classification: Accepted	Page 1
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Site Names: UPR-200-W-47, 216-S-16P Dike Release, UN-200-W-47		
Site Type: Unplanned Release	Start Date:	1958
Status: Inactive	End Date:	1959
Operable Unit: 200-CW-2	Coordinates:	
Hanford Area: 200W	(E) 565011.5	(N) 133237.375
	Washington State Plane	

Site Description: The site is an unplanned release of contaminated cooling water from the 216-S-16 Pond (WIDS site 216-S-16P). The area contaminated by the release is not posted. The 216-S-16 Pond has been surface stabilized, planted with grasses, and posted with "Underground Radioactive Material" signs. A large shallow area encircling the west side of the pond was used for the stabilizing fill. This area has also been planted with grasses. This site has been consolidated with the 216-S-16 Pond.

Location Description: The 216-S-16 Pond is located southwest of the 200 West area. The release affected an area 140 meters (150 yards) west and 270 meters (300 yards) north and south of the pond dike boundary.

Associated Structures: The release was related to the 216-S-16 Pond.

Site Comment: After the April 1959 incident, the dike was repaired. It was also extended an additional 90 meters (300 feet) and the height was increased from 2.7 meters (9 feet) to 3.7 meters (12 feet).

The Chemical Processing Division monthly report for May 1959 states that the contaminated soil was "covered with a new layer of earth". Baldridge (1959) describes both incidents and states that the contaminated soil was "bladed under" and posted as "Underground Contamination".

The Chemical Processing Division monthly reports for April 1958 to August 1958 were reviewed. No information about the June 1958 incident was identified.

The 216-S-16 Pond was backfilled in 1975. In 1984, the pond was surface stabilized. The borrow area used to obtain the backfill and stabilizing soil is located within the general area flooded by the dike releases. The borrow area is listed in WIDS as site 200-W-25.

Release Description: In June 1958 and again in April 1959, a break in the REDOX Cooling Water Swamp (216-S-16P) dike occurred. The released cooling water contaminated an area to the west, north, and south of 216-S-16P.

- References:**
1. K. F. Baldridge, 7/15/59, Unconfined Underground Radioactive Waste and Contamination in the 200 Areas - 1959, HW-60807.
 2. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.
 3. R. D. Stenner, K. H. Cramer, D. A. Lamar, 10/88, Hazard Ranking System Evaluation of CERCLA Inactive Waste Sites at Hanford, PNL-6456 Vol 1,2,3.
 4. 2/89, Preliminary Operable Units Designation Project, WHC-EP-0216.
 5. Operation Managers, 6/21/59, Chemical Processing Department Monthly Report for May, 1959, HW-60559 DEL.

Dimensions:

Sq. Area: 242,811.39 sqMeters 2,613,597.47 sqFeet

Site Shape: Irregular

Comment: The April 1959 release was estimated to have covered 24 hectares (60 acres).

References: 1. Operation Managers, 6/21/59, Chemical Processing Department Monthly Report for May, 1959, HW-60559 DEL.

Regulatory Information:

Programmatic Responsibility

DOE Program: EM-40 Confirmed By Program: Yes
 DOE Division: RPD - Restoration Projects Division
 Responsible Contractor/Subcontractor: BHI - Bechtel Hanford, Inc.

Site Evaluation

Solid Waste Management Unit: No
 TPA Waste Management Unit Type: Unplanned Release Unit

This Site Was Consolidated With:

216-S-16P, 202-S Swamp and Ditch, 202-S Swamp #1, REDOX Pond #2

Reason: Within Boundary Of Larger Site

Permitting

RCRA Part A Permit:	No	216/218 Permit:	No
RCRA Part B Permit:	No	NPDES:	No
Closure Plan:	No	State Waste Discharge Permit:	No
TSD Number:		Septic Permit:	No
Air Operating Permit:	No	Inert Landfill:	No
Air Operating Permit Number(s):			

Tri-Party Agreement

Lead Regulatory Agency: EPA
 Unit Category: CERCLA Past Practice (CPP)
 TPA Appendix: C

Remediation and Closure

Decision Document:
 Decision Document Status:
 Remediation Design Group:
 Closure Document:
 Closure Type:
 Post Closure Requirements:

Residual Waste:

Waste Information:

Type: Process Effluent
 Category: Mixed
 Physical State: Liquid

Description: The release consisted of contaminated process cooling water from REDOX. The ground was contaminated to a maximum reading of 750 millirads/hour.

References: 1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.

Field Work:

Type: Site Walkdown

Begin Date:	09/03/1999	Field Crew:	Jeff Shearer
End Date:	09/03/1999		
Purpose:	Obtain Photos		
Comment:	The 216-S-16 Pond and adjacent borrow area (200-W-25) can be distinguished by the vegetation. They are both covered with grasses, but there is no sagebrush like surrounding areas.		
Site Cover:	Moderate Vegetation		
Site Accessible:	Yes	Site Found:	No
Soil Discoloration:	No	Debris Visible:	No
Vegetation Type:	Bunchgrasses		
Soil Color:	Pale Brown		
Soil Texture:	Sand (>50%)		
References:	1. Fred Blebesheimer, Jeff Shearer, 11-19-98, Logbook: WIDS Waste Site Walkdowns, EL-1492.		

Images:

Date Taken: 9/3/99
Pathname: \\bhi002\esd-img\200W\1511\1511_01.JPG
Description: This image shows the stabilized 216-S-16 Pond. The image was taken facing northeast.

Date Taken: 9/3/99
Pathname: \\bhi002\esd-img\200W\1511\1511_02.JPG
Description: This image shows the stabilized 216-S-16 Pond on the right side of the road and the 200-W-25 Borrow Pit on the left side of the road. The edge of the borrow pit can be discerned by a change in vegetation at a small rise.

Date Taken: 10/1/65
Pathname: \\bhi002\esd-img\200W\1511\1511_03.JPG
Description: This photo shows the active pond (at top of photo) in October 1965 (#40599-27cn). This photo faces towards the west.