

**Radioactive Liquid  
Waste Disposal  
Facilities - 200  
West Area**

**L. L. Lundgren**

**August 31, 1971**

**Industrial Relations Department  
Personnel Production Section**

**Atlantic Richfield Hanford Company  
Richland, Washington 99352**



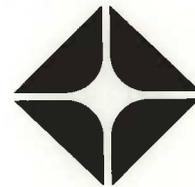
**Atlantic Richfield Hanford Company**  
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Date: September 22, 1971  
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Subject: DEFINITION OF TERMS, ARH-2155

The document ARH-2155, "Radioactive Liquid Waste Disposal Facilities - 200 West Area", was completed prior to the issuance of the new Operating Instruction on "Outdoor Radiation Zones."

The definition of "Deactivated Site or Facility" as used in this document is not as all inclusive as the definition used in the new Operating Instruction No. 1.6.5.2. Deactivation in this document, ARH-2155, refers only to the sites and facilities not to be used for further disposal of liquid waste and have an inlet component of the waste disposal system removed or blanked. It does not include the completion of Form BD-6700-091.1 and BD-6700-091.2, "Outdoor Radiation Zone Deactivation and Transfer of Responsibility."

LLL:sbm

cc: GE Backman  
File

RADIOACTIVE LIQUID WASTE DISPOSAL FACILITIES  
200 WEST AREA

by

L. L. Lundgren

Personnel Protection Section  
Industrial Relations Department

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## RADIOACTIVE LIQUID WASTE DISPOSAL FACILITIES 200 WEST AREA

### INTRODUCTION

The Atlantic Richfield Hanford Company (ARHCO) has a contractual obligation to maintain records on the facilities used for the disposal of radioactive liquid wastes to the environs from its operations in the 200 Areas. This report lists the liquid waste disposal facilities in or near the 200 West Area. It identifies the wastes released in each facility and describes the current facility status. The information was compiled from previous documentation (see references) and interviews with present and former operations building personnel. The report provides a comprehensive and useful source of reference material for ARHCO personnel having a responsibility or interest in these facilities.

### DEFINITION OF TERMS

The following definitions are provided to clarify the use of terms in this report.

Facility - A crib, French drain, reverse well (dry well), pond, ditch or trench used for the disposal of liquid waste.

Site - The ground area occupied by one or more related liquid waste disposal facilities.

Active Site or Facility - A site or facility currently being used continually or intermittently.

Inactive Site or Facility - A site or facility not currently being used but one that can be readily activated. (The liquid waste dispersion system should be intact but locked out or blanked, and tagged.)

Deactivated Site or Facility - A site or facility not to be used for further disposal of liquid waste. (A relevant component of the liquid waste disposal system should be removed or blanked, and tagged.)

Crib - A buried or covered liquid waste disposal facility usually rock filled with earth backfill and a built-in liquid dispersion system.

French Drain - A rock-filled encasement with an open bottom to allow seepage of liquid waste into the ground.

Reverse Well (Dry Well) - A pipe extending into the ground with the lower end perforated or open to allow seepage of liquid waste into the ground.

Pond - A body of water enclosed in a natural or diked ground surface depression used for liquid waste disposal.

Ditch - A long, narrow, unlined excavation in the ground used for conveying liquid waste to a pond.

Trench - A long, usually narrow, unlined excavation in the ground used for the disposal of limited quantities of liquid waste.

#### SITE AND FACILITY DESIGNATIONS

The Process Design Engineering Section has the responsibility for assigning the official designations to all ARHCO liquid waste disposal sites and facilities in the 200 Areas. The supervisor, Drafting, has the responsibility to integrate and coordinate these assignments.

#### DISCUSSION

Many sites and facilities have been used through the years for the disposal of radioactive or potentially radioactive liquid waste from ARHCO operations in the 200 West Area. Often, pertinent records on the designation, service dates, specific use, and the exact status of many waste disposal facilities were not kept up-to-date, retained or documented. The lack of a consistent numbering system for many years has also caused some confusion in the designated location of some facilities. It was necessary for the author to rely on the past experience of project personnel for much of the pertinent information in this report.

The document HW-55176 (Reference 10) includes sketches showing basic design information for each waste disposal facility in or near the 200 West Area as of 1959. This document should be revised and updated to include the addition of new facilities used for liquid waste disposal.

#### SUMMARY OF 200 WEST AREA LIQUID WASTE DISPOSAL FACILITIES

##### 216-S LIQUID WASTE DISPOSAL FACILITIES

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-S-1	A-3	202-S Bldg. D-1 Cell Drainage and D-2 Process Condensate	1/52	1/56	Deactivated
216-S-2	A-3	202-S Bldg. D-1 Cell Drainage and D-2 Process Condensate	1/52	1/56	Deactivated

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<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service From</u>	<u>Dates To</u>	<u>Status</u>
216-S-3	A-4	241-S-101 & 104 Tank Condensate	9/53	8/56	Deactivated
216-S-4	A-5	241-S-101 & 104 Tank Condensate	8/53	8/56	Deactivated
216-S-5	A-7	202-S Bldg. Process Cooling Water and Steam Condensate	3/54	3/57	Inactive
216-S-6	A-8	202-S Bldg. Process Cooling Water and Steam Condensate	11/54	---	Active
216-S-7	A-9	202-S Bldg. D-1 Cell Drainage and D-2 Process Condensate	1/56	7/65	Deactivated
216-S-8	A-11	202-S Bldg. Start-Up Waste	11/51	2/52	Deactivated
216-S-9	A-12	202-S Bldg. D-2 Process Condensate	7/65	1/69	Deactivated
216-S-10 Ditch	A-13	202-S Bldg. Chemical Sewer Waste	2/54	---	Active
216-S-10 Pond	A-14	202-S Bldg. Chemical Sewer Waste	2/54	---	Active
216-S-11	A-15	202-S Bldg. Chemical Sewer Waste	5/54	8/65	Inactive
216-S-12	A-16	291-S-1 Stack Flush Waste	7/54	7/54	Deactivated
216-S-13	A-17	203-S, 204-S, and 276-S Facilities Waste	1/52	---	Active
216-S-14	A-18	202-S Bldg. Organic Start-Up Waste	1/52	1/52	Deactivated
216-S-15	A-19	241-S-110 Tank Condenser Cooling Water	12/51	10/52	Deactivated
216-S-16 Ditch	A-20	202-S Bldg. Process Cooling Water and Steam Condensate	9/56	---	Active

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-S-16 Pond	A-21	202-S Bldg. Process Cooling Water and Steam Condensate	9/56	---	Active
216-S-17	A-22	202-S Bldg. Process Cooling Water and Steam Condensate, and 216-U-9 Ditch Waste	10/51	4/54	Deactivated
216-S-18	A-24	Decontamination Waste	10/54	10/54	Deactivated
216-S-19	A-25	222-S Laboratory Waste	2/52	---	Active
216-S-20	A-27	222-S Laboratory Waste, and 300 Area Waste	1/52	1/69	Inactive
216-S-21	A-29	241-SX-401 Bldg. Condenser Condensate	11/54	---	Active
216-S-22	A-30	293-S Facility Waste	10/57	6/67	Deactivated
216-S-23	A-31	202-S Bldg. D-2 Process Condensate	1/69	---	Active

216-T LIQUID WASTE DISPOSAL FACILITIES

216-T-1	B-3	221-T Bldg. Head End Waste	11/44	---	Active
216-T-2	B-5	222-T Laboratory Waste	1/45	5/50	Deactivated
216-T-3	B-6	221-T Bldg. Tank 5-6 Cell Drainage, and 224-T Bldg. Waste	6/45	8/46	Deactivated
216-T-4 Ditch	B-7	221-T and 242-T Bldg. Process Cooling Water and Steam Condensate, and 2706-T Bldg. De- contamination Waste	11/44	---	Active
216-T-4 Pond	B-10	221-T and 242-T Bldg. Process Cooling Water and Steam Condensate and 2706-T Bldg. Decontamination Waste	11/44	---	Active

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-T-5	B-11	221-T Bldg. Second Cycle Supernatant Waste	5/55	5/55	Deactivated
216-T-6	B-12	221-T Bldg. Tank 5-6 Cell Drainage, and 224-T Bldg. Waste	8/46	6/51	Deactivated
216-T-7	B-14	221-T Bldg. Second Cycle Supernatant Waste and Tank 5-6 Cell Drainage, and 224-T Bldg. Waste	4/48	11/55	Deactivated
216-T-8	B-16	222-T Laboratory Waste	5/50	9/51	Deactivated
216-T-9	B-17	Heavy Equipment and Vehicle Decontamina- tion Waste	2/51	3/54	Deactivated
216-T-10	B-18	Heavy Equipment and Vehicle Decontamina- tion Waste	6/51	3/54	Deactivated
216-T-11	B-19	Heavy Equipment and Vehicle Decontamina- tion Waste	6/51	3/54	Deactivated
216-T-12	B-20	207-T Retention Basin Sludge	11/54	11/54	Deactivated
216-T-13	B-21	Vehicle Decontamina- tion Waste	6/54	6/64	Deactivated
216-T-14	B-22	221-T Bldg. First Cycle Supernatant Waste	1/54	1/54	Deactivated
216-T-15	B-23	221-T Bldg. First Cycle Supernatant Waste	1/54	2/54	Deactivated
216-T-16	B-24	221-T Bldg. First Cycle Supernatant Waste	2/54	2/54	Deactivated
216-T-17	B-25	221-T Bldg. First Cycle Supernatant Waste	2/54	6/54	Deactivated

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-T-18	B-26	221-T Bldg. First Cycle Scavenged TBP Waste	12/53	12/53	Deactivated
216-T-19	B-27	242-T Bldg. Process and Steam Condensate, 221-T Bldg. Second Cycle Supernatant Waste and Tank 5-6 Cell Drainage, and 224-T Bldg. Waste	9/51	---	Active
216-T-20	B-29	241-TX-155 Diversion Box Catch Tank Nitric Acid Solution	11/52	11/52	Deactivated
216-T-21	B-30	221-T Bldg. First Cycle Supernatant Waste	6/54	8/54	Deactivated
216-T-22	B-31	221-T Bldg. First Cycle Supernatant Waste	7/54	8/54	Deactivated
216-T-23	B-32	221-T Bldg. First Cycle Supernatant Waste	7/54	8/54	Deactivated
216-T-24	B-33	221-T Bldg. First Cycle Supernatant Waste	8/54	8/54	Deactivated
216-T-25	B-34	242-T Bldg. First Cycle Evaporator Bottoms Waste	9/54	9/54	Deactivated
216-T-26	B-35	221-T Bldg. First Cycle Scavenged TBP Waste	8/55	12/55	Deactivated
216-T-27	B-36	300 Area Waste	9/65	11/65	Deactivated
216-T-28	B-37	221-T Bldg. Steam Condensate and Decontamination Waste, 2706-T Bldg. Decontamination Waste, and 300 Area Waste	2/60	12/66	Deactivated
216-T-29	B-40	291-T Sand Filter Condensate	3/49	3/64	Inactive

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-T-30	B-41	241-TX-154 Diversion Box Contamination Spread	7/53	7/53	Deactivated
216-T-31	B-42	Steam Line Condensate	10/54	2/62	Deactivated
216-T-32	B-43	224-T Bldg. Waste	11/46	5/52	Deactivated
216-T-33	B-44	2706-T Bldg. Decon- tamination Waste	1/63	2/63	Deactivated
216-T-34	B-45	300 Area Waste	5/66	3/67	Deactivated
216-T-35	B-46	300 Area Waste	3/67	---	Active
216-T-36	B-47	221-T and 221-U Bldg. Steam Condensate and Decontamination Waste	5/67	---	Active

216-U LIQUID WASTE DISPOSAL FACILITIES

216-U-1	C-3	221-U Bldg. Tank 5-6 Cell Drainage and De- contamination and Reclamation Waste, 276-U Solvent Storage Area Contaminated Sol- vent, and 224-U Bldg. Tank C-2 Waste	3/52	5/67	Deactivated
216-U-2	C-3	221-U Bldg. Tank 5-6 Cell Drainage and De- contamination and Reclamation Waste, 276-U Solvent Storage Area Contaminated Sol- vent, and 224-U Bldg. Tank C-2 Waste	3/52	5/67	Deactivated
216-U-3	C-5	241-U-110 Tank Conden- sate	5/54	8/55	Inactive
216-U-4	C-6	222-U Laboratory Waste	3/47	7/55	Inactive
216-U-4A	C-7	222-U Laboratory Waste	7/55	7/70	Inactive
216-U-4B	C-8	222-U Laboratory Waste	1/60	7/70	Inactive
216-U-5	C-9	221-U Bldg. Start-Up Waste	3/52	3/52	Deactivated

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<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service From</u>	<u>Dates To</u>	<u>Status</u>
216-U-6	C-10	221-U Bldg. Start-Up Waste	3/52	3/52	Deactivated
216-U-7	C-11	221-U Bldg. Counting Box Floor Drainage	3/52	6/57	Deactivated
216-U-8	C-12	221-U and 224-U Bldg. Process Condensate, and 291-U-1 Stack Drainage	6/52	4/60	Deactivated
216-U-9	C-14	216-U-10 Pond Overflow	3/52	4/54	Deactivated
216-U-10	C-15	216-U-14 and 216-Z-11 Ditch Waste, and 401-SX Bldg. Condenser Cooling Water	7/44	---	Active
216-U-11 Old Trench	C-16	216-U-10 Pond Overflow	11/44	7/55	Deactivated
216-U-11 New Trench	C-17	216-U-10 Pond Overflow	7/55	---	Active
216-U-12	C-18	224-U Bldg. Process Condensate and Tank C-7 Waste, and 291-U-1 Stack Drainage	4/60	---	Active
216-U-13	C-19	241-UR Steam Cleaning Pit Waste	3/52	3/56	Deactivated
216-U-14	C-20	284-W Power House Waste, 2724 Laundry Bldg. Waste, 221-U Bldg. Chemical Sewer Waste, 224-U Bldg. Cooling Water, and 241-U-110 Tank Condenser Cooling Water	7/44	---	Active
216-U-15	C-22	276-U Solvent Storage Area Tank 388 Waste	5/57	5/57	Deactivated

216-Z LIQUID WASTE DISPOSAL FACILITIES

216-Z-1 Ditch	D-3	231-Z and 234-5 Bldg. Process Cooling Water and Steam Condensate, 231-Z Laboratory Waste, and 291-Z Bldg. Vacuum Pump Seal Water	12/44	3/59	Deactivated
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<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-Z-1 Crib	D-5	234-5 Bldg. Process Waste and Laboratory Waste, and 236-Z Bldg. Waste	6/49	4/69	Inactive
216-Z-1A	D-7	234-5 Bldg. Process Waste and Laboratory Waste, and 236-Z and 242-Z Bldg. Waste	6/49	4/69	Deactivated
216-Z-2	D-9	234-5 Bldg. Process Waste and Laboratory Waste, and 236-Z and 242-Z Bldg. Waste	6/49	6/66	Inactive
216-Z-3	D-11	234-5 Bldg. Process Waste and Laboratory Waste	6/52	3/59	Inactive
216-Z-4	D-12	231-Z Bldg. Process Waste	6/45	6/45	Deactivated
216-Z-5	D-13	231-Z Bldg. Process Waste	6/45	2/47	Deactivated
216-Z-6	D-14	231-Z Bldg. Process Waste	6/45	6/45	Deactivated
216-Z-7	D-15	231-Z Bldg. Process Waste and Laboratory Waste, and 300 Area Waste	2/47	2/67	Deactivated
216-Z-8	D-17	234-5 Bldg. Recuplex Waste	7/55	4/62	Deactivated
216-Z-9	D-18	234-5 Bldg. Recuplex Waste	7/55	6/62	Deactivated
216-Z-10	D-19	231-Z Bldg. Process Waste and Laboratory Waste	2/45	6/45	Deactivated
216-Z-11	D-20	234-5 Bldg. Process Cooling Water and Steam Condensate, 231-Z Bldg. Labora- tory Waste, and 291- Z Bldg. Vacuum Pump Seal Water	3/59	5/71	Deactivated

<u>Number</u>	<u>Page</u>	<u>Function</u>	<u>Service Dates</u>		<u>Status</u>
			<u>From</u>	<u>To</u>	
216-Z-12	D-22	234-5 Bldg. Process Waste and Laboratory Waste	3/59	---	Active
216-Z-13	D-23	291-Z Bldg. ET-8 Exhaust Fan Steam Condensate and Floor Drainage	6/49	---	Active
216-Z-14	D-24	291-Z Bldg. ET-9 Exhaust Fan Steam Condensate	6/49	---	Active
216-Z-15	D-25	291-Z Bldg. S-12 Evaporator Cooler Drainage	6/49	---	Active
216-Z-16	D-26	231-Z Bldg. Waste	3/68	---	Active
216-Z-17	D-27	231-Z Bldg. Waste	2/67	2/68	Deactivated
216-Z-18	D-28	236-Z and 242-Z Bldg. Waste	4/69	---	Active
216-Z-19	D-29	234-5 Bldg. Process Cooling Water and Steam Condensate, 231-Z Bldg. Laboratory Waste, and 291-Z Bldg. Vacuum Pump Seal Water	5/71	---	Active

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- (36) ARH-2015 Pt3 (OFFICIAL USE ONLY), "Radioactive Liquid Wastes Discharged to Ground in the 200 Areas During 1970", M. C. Jacobs and D. L. Uebelacker, April 7, 1971.

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## APPENDIX A

Appendix A contains the compilation of information on the function(s) and status of each 216-S liquid waste disposal facility as of August 31, 1971.

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## 216-S LIQUID WASTE DISPOSAL FACILITIES

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-1 & 2 Cribs	216-S-5	Deactivated	N 35410 W 75153 to N 35453 W 75230	90 x 40	H-2-1774 H-2-1776 H-2-1813

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/52	1/56	Received the cell drainage from the D-1 receiver tank and the process condensate from the D-2 receiver tank in the 202-S Bldg.	Active	-----	-----
1/56	----	"	Deactivated	Acid waste corroded monitoring well casings and penetrated into sediments near the water table.	Capped the pipeline to the cribs at the 241-S-151 Diversion Box. Rerouted the bldg. effluent to the 216-S-7 Crib.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-3 Crib	216-S-3 French Drain	Deactivated	N 35964 W 75480 to N 36064 W 75480	100 x 10	H-2-1813

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/53	8/56	Received the condensate from two 12-inch riser condensers on the 101-S and 104-S tanks in the 241-S Tank Farm.	Active	-----	-----
8/56	----	"	Deactivated	Reactivated the tank air condensers.	Removed the aboveground piping in the tank farm to the crib.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-4 French Drains*	216-S-7 216-S-4 Sump or Crib	Deactivated	N 36070 W 76615	Diameter: 30 inches	H-2-39574

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
8/53	9/53	Received the cooling water and condensate from two 12-inch riser condensers on the 101-S and 104-S tanks in the 241-S Tank Farm.	Active	-----	-----
9/53	8/56	Received the cooling water from the two 12-inch riser condensers on the 101-S and 104-S tanks. Rerouted the condensate to the 216-S-3 Crib.	Active	-----	-----

\* Two rock-filled encasements.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-S-4 French Drains (Continued)

Service DatesFrom    To

8/56    ----

Function

"

Status

Deactivated

Removed from ServiceReasonReactivated the tank air  
condensers.MethodRemoved the aboveground  
piping in the tank farm  
to the French drains.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-5 Crib	216-S-5 Cavern #1 216-S-9 216-S-6 Crib	Inactive	N 32628 W 77000, N 32852 W 77000 and N 32740 W 76888, N 32740 W 77112	210 x 210	H-2-5962 H-2-5963
<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/54	3/57	Received the process vessel cooling water and steam condensate from the 202-S Bldg.	Active	-----	-----
3/57	----	"	Inactive	Top of the crib began to cave in.	Valved out and locked the pipeline to the crib. Rerouted the bldg. effluent to the 216-S-6 Crib and the 216-S-16 Pond.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-6 Crib	216-S-6 Cavern #2 216-S-13 216-S-5 Crib	Active	N 33135 W 77700, N 33365 W 77700 and N 33250 W 77585, N 33250 W 77815	210 x 210	H-2-2594 H-2-2595 H-2-2596

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
11/54	6/67	Received the process vessel cooling water and steam condensate from the 202-S Bldg.	Active	-----	-----
6/67	7/67	Shut down production operations and put the 202-S Bldg. on standby.	Active	-----	-----
7/67	----	Receives the steam condensate from the D-12 and D-14 waste concentrators in the 202-S Bldg.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-7 Crib	216-S-15	Deactivated	N 35122 W 74630 to N 35185 W 74517	100 x 50	H-2-30135

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
1/56	4/59	Received the cell drainage from the D-1 receiver tank, the process condensate from the D-2 receiver tank and the condensate from the H-6 condenser in the 202-S Bldg.	Active	-----	-----
4/59	7/65	Received the cell drainage from the D-1 receiver tank and the process condensate from the D-2 receiver tank. Rerouted the H-6 condensate to UGS.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-S-7 Crib (Continued)

Service DatesFrom      To

7/65      ----

Function

"

Status

Deactivated

Removed from ServiceReason

Reached the prescribed radionuclide disposal guide limit of the crib.

Method

Capped the pipeline to the crib at the north-west corner of the Redox Plant area perimeter fence. Rerouted the D-1 waste to the 202-S Bldg. concentrators for boil-down and discharge to UGS and the D-2 waste to the 216-S-9 Crib.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-8 Crib	Cold Aqueous Trench or Grave 216-S-3 Unirradiated Uranium Waste Trench (Redox)	Deactivated	N 35250 W 75370, N 35350 W 75370 and N 35300 W 75340, N 35300 W 75400	100 x 60	H-2-32525 H-2-44510

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
11/51	2/52	Received the unirradiated uranium start-up waste from the 202-S Bldg.	Active	-----	-----
2/52	----	"	Deactivated	Completed the discharge of start-up waste to the trench.	Removed the aboveground piping and backfilled the trench.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-9 Crib	216-S-9 Crib	Deactivated	N 35998 W 74513 to N 36287 W 74586	300 x 30	H-2-32362 H-2-32363 SK-2-17792

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/65	1/69	Received the process condensate from the D-2 receiver tank in the 202-S Bldg.	Active	-----	-----
1/69	----	"	Deactivated	Reached the prescribed radionuclide disposal guide limit of the crib.	Blanked the pipeline at the south end of the crib. Rerouted the D-2 waste to the 216-S-23 crib.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-10 Ditch	202-S Chemical Sump #1 & Ditch Open Ditch to Chemical Sewer Trenches	Active	N 32325 W 77100 to N 33790 W 75430	2250 x 6	H-2-5962 H-2-5963

Service Dates

<u>From</u>	<u>To</u>
2/54	----

<u>Function</u>
Receives the chemical sewer waste from the 202-S Bldg. and the overflow from the high water tower.

<u>Status</u>
Active

Removed from Service

<u>Reason</u>
-----

<u>Method</u>
-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-10 Pond	202-S Chemical Sump #1 & Ditch Chemical Sewer Trench	Active	See drawing H-2-34762 on page	5 acres	H-2-5962 H-2-32525

Service DatesFrom    ToFunctionStatusRemoved from ServiceReasonMethod

2/54    ----

Receives the chemical sewer waste from the 202-S Bldg. via the 216-S-10 Ditch.

Active

-----

-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-11 Pond	202-S Chemical Sump #2 Chemical Sewer Trench 216-S-11 Swamp	Inactive	See drawing H-2-34762 on page	1.5 acres	H-2-32525

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/54	8/65	Received the chemical sewer waste from the 202-S Bldg. via the 216-S-10 Ditch.	Active	-----	-----
8/65	----		Inactive	Reached the maximum liquid level of the pond.	Earth dammed the 216-S-10 Ditch to the pond diverting all the bldg. effluent to the 216-S-10 Pond.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-12 Crib	291-S Stack Wash Sump or Grave Redox Stack Flush Trench	Deactivated	N 34965 W 73294 to N 34965 W 73384	90 x 20	H-2-32525

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
7/54	7/54	Received the flush water from the 291-S-1 Stack.	Active	-----	-----
7/54	----	"	Deactivated	Completed the flush of the 291-S-1 Stack.	Removed the aboveground piping and backfilled the trench.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-13 Crib	276-S Crib 216-S-6	Active	N 34610 W 74625	40 x 40	H-2-5385 H-2-5391 H-2-5640

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/52	6/67	Received liquid waste from the 203-S Decontaminated Metal Storage Facility, the 204-S UNH Lag Storage Facility and the 276-S Organic-Solvent Make-Up Facility.	Active	-----	-----
6/67	----	Receives occasional sump waste from the 204-S Facility. Deactivated the 203-S and 276-S Facilities during shutdown of production operations at Redox.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-14 Crib*	Cold Organic Trench or Grave 216-S-4 Buried Contaminated Hexone	Deactivated	N 33050 W 73700 to N 33150 W 73700	100 x 8	H-2-32525 H-2-44510

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/52	1/52	Received the contaminated hexone from initial test runs in the 202-S Bldg.	Active	-----	-----
1/52	----	"	Deactivated	Completed the discharge of hexone to the trench.	Removed the aboveground piping and backfilled the trench.

\* This is no longer a radiation zone.

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## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-15 Crib	241-S-110 Pond 216-S-2 110-S Tank Air Condenser Over- flow 216-S-15 Pond	Deactivated	N 36107 W 75434	35 x 5	H-2-32525 H-2-44510

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
12/51	10/52	Received the condenser spray cooling water from the 110-S tank in the 241-S Tank Farm.	Active	-----	-----
10/52	----	"	Deactivated	Condensed radioactive tank vapors were mixed with the spray cooling water and contaminated the pond.	Removed the aboveground piping and backfilled the pond.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-16 Ditch	202-S Swamp (New) & Ditch 216-S-24 Ditch	Active	See drawing H-2-30264 on page	1700 x 4	H-2-30264 H-2-30266 H-2-46019 H-2-46020

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/56	6/67	Received the process vessel cooling water and steam condensate from the 202-S Bldg.	Active	-----	-----
6/67	7/67	Shut down production operations and put the 202-S Bldg. on standby.	Active	-----	-----
7/67	----	Receives condenser and vessel cooling water from concentrator boil-down operations in the 202-S Bldg.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-16 Pond	202-S Swamp (New) & Ditch 202-S Swamp #1 Redox Pond #2	Active	See drawing H-2-46019 on page	31 acres	H-2-30264 H-2-46019

Service Dates

<u>From</u>	<u>To</u>
9/56	6/67

FunctionStatusRemoved from ServiceReasonMethod

Received the process vessel cooling water and steam condensate from the 202-S Bldg. via the 216-S-16 Ditch.	Active	-----	-----
Shut down production operations and put the 202-S Bldg. on standby.	Active	-----	-----
Receives condenser and vessel cooling water from concentrator boil-down operations in the 202-S Bldg. via the 216-S-16 Ditch.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-17 Pond	202-S Swamp 202-S Redox Swamp 216-S-1 Redox Pond #1	Deactivated	See drawing H-2-34762 on page	17 acres	H-2-1770 H-2-1773 H-2-2594 H-2-5962 H-2-30264

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
10/51	1/53	Received the process vessel cooling water and steam condensate from the 202-S Bldg.	Active	-----	-----
1/53	4/54	Received the above bldg. effluent and the overflow from the 216-U-10 Pond via the 216-U-9 Ditch.	Active	-----	-----
4/54	----	"	Deactivated	The radionuclide concentration in the pond sediments was above the prescribed disposal guide limit.	Plugged the pipeline to the pond north of the 216-S-5 Crib and covered the pond area with clean earth. Rerouted the bldg.

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216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-S-17 Pond (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
"	"	"	"	"	effluent to the 216-S-5 Crib. Discontinued the overflow from the 216-U-10 Pond.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-18 Crib	241-SX Steam Cleaning Pit 216-S-14 Steam Cleaning Pit North-east of 241-SX Tank Farm	Deactivated	N 35772 W 74895 to N 35772 W 75020	125 x 15	H-2-32525

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
10/54	10/54	Received vehicle decontamination pit waste.	Active	-----	-----
10/54	----	"	Deactivated	Completed vehicle decontamination.	Backfilled the pit.

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216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-19 Pond	222-S Lab Swamp 216-SL-1 Redox Laboratory Swamp	Active	See drawing H-2-34762 on page	3.5 acres	H-2-5224 H-2-32525 H-2-44510

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
2/52	12/54	Received the ventilation cooling water and miscellaneous wastes from laboratory hoods and decontamination sinks in the 222-S Bldg. via the 207-SL Retention Basin.	Active	-----	-----
12/54	10/55	"	Inactive	The radionuclide concentration in the 207-SL Retention Basin liquid waste was above the prescribed disposal guide limits.	Rerouted the bldg. effluent to the 216-S-20 Crib.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-S-19 Pond (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
10/55	----	Received the ventillation cooling water and miscellaneous wastes from laboratory hoods and decontamination sinks in the 222-S Bldg. via the 207-SL Retention Basin.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-20 Crib	216-SL-1 & 2 Cribs 216-SL-2	Inactive	N 34296 W 73242 to N 34296 W 73386	90 x 40	H-2-5140 H-2-5224 H-2-5229

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/52	7/53	Received miscellaneous waste from laboratory hoods and decontamination sinks in the 222-S Bldg. via the 207-SL Retention Basin.	Active	-----	-----
7/53	9/63	Received the above bldg. effluent and 300 Area laboratory wastes via the 207-SL Retention Basin.	Active	-----	-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-S-20 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/63	1/69	Received miscellaneous wastes from laboratory hoods and decontamination sinks in the 222-S Bldg. via the 207-SL Retention Basin. Rerouted the 300 Area laboratory wastes to the 216-T-28 Crib.	Active	-----	-----
1/69	----	"	Inactive	Ground caving in above the crib.	Valved out the pipelines to the crib in the 219-S Bldg. and at the 207-SL Retention Basin. Rerouted the 222-S Bldg. effluent to the 202-S Bldg. concentrators for boil-down and discharge to UGS.

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-21 Crib	216-SX-1 Cavern or Crib 216-SX-1	Active	N 35920 W 76400	50 x 50	H-2-39549 H-2-39574 H-2-39579

Service Dates

<u>From</u>	<u>To</u>
11/54	----

Function  
 Receives the condensate, as required, from the condensers in the 401-SX Condenser Facility via the 106-SX tank in the 241-SX Tank Farm.

<u>Status</u>
Active

Removed from Service

<u>Reason</u>
-----

<u>Method</u>
-----

## 216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-22 Crib	216-S-22 Crib	Deactivated	N 34533 W 73063 to N 34533 W 73203	100 x 3.5	H-2-31047

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
10/57	6/67	Received the liquid waste from the acid recovery facility in the 293-S Bldg.	Active	-----	-----
6/67	----	"	Deactivated	Shutdown production operations at Redox.	Blanked the inlet piping to the 293-S Bldg.

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216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-S-23 Crib	216-S-23 Crib	Active	N 36670 W 74720 to N 37020 W 74790	360 x 10	H-2-46111 H-2-46112

Service Dates

From    To  
1/69    ----

Function  
Receives the process condensate from the D-2 receiver tank in the 202-S Bldg.

Status  
Active

Removed from Service

Reason  
-----

Method  
-----

216-S LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

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## APPENDIX B

Appendix B contains the compilation of information on the function(s) and status of each 216-T liquid waste disposal facility as of August 31, 1971.

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## 216-T LIQUID WASTE DISPOSAL FACILITIES

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-1 Trench	221-T Ditch	Active	N 44455 W 73050 to N 45070 W 73752	1825 x 3	M-2600W #11

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/44	6/56	Received miscellaneous waste from pilot plant experimental work, intermittent decontamination waste and waste from the Head End of the 221-T Bldg.	Active	-----	-----
6/56	1/64	"	Inactive	Shutdown production operations at T Plant and put the 221-T Bldg. on standby.	Valved out the pipeline in the bldg.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-1 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/64	6/70	Received the cooling water from the blow-down vessel in the 277-T Bldg. (PNL - Neutron Generator Facility) and miscellaneous waste from PNL Head End operations in the 221-T Bldg.	Active	-----	-----
6/70	----	Receives the condensate from steam heated radiators at the Head End of the 221-T Bldg. Discontinued the discharge of 277-T waste and other 221-T Head End waste during shutdown of PNL operations.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-2 Reverse Well	222-T-110 Dry Well or Reverse Well	Deactivated	N 43682 W 73173	Diameter: 3 inches	H-2-353 HW-69870 #1

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/45	5/50	Received the decontamination sink and sample "slurper" wastes from the 222-T Bldg.	Active	-----	-----
5/50	----	"	Deactivated	Effluent flow rate exceeded the infiltration capacity of the reverse well.	Blanked the pipeline at the reverse well. Rerouted the bldg. effluent to the 216-T-8 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-3 Reverse Well	241-T-361A Dry Well or Reverse Well 361-T Reverse Well	Deactivated	N 43335 W 74250	Diameter: 8 inches	H-2-353 H-2-951

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/45	8/46	Received cell drainage from tank 5-6 in the 221-T Bldg. and waste from the 224-T Bldg. via the overflow from the 241-T-361 Setting Tank.	Active	-----	-----
8/46	----	"	Deactivated	Effluent flow rate exceeded the infiltration capacity of the reverse well.	Blanked the pipeline to the reverse well. Rerouted the bldg. effluent to the 216-T-6 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-4 Ditch	216-T-4 Swamp	Active	N 44000 W 75680 to N 44625 W 76200	850 x 8	H-2-576 SK-2-2409 M-2600W #10

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/44	9/51	Received the process cooling water from the 221-T and 224-T Bldg's. via the 207-T Retention Basin and the steam condensate from the 221-T Bldg.	Active	-----	-----
9/51	7/55	Received the above bldg. effluents and the condenser cooling water and steam condensate from the 242-T Bldg. waste evaporator.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-4 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/55	8/56	Received the process cooling water from the 221-T and 224-T Bldg's. via the 207-T Retention Basin and the steam condensate from the 221-T Bldg. Discontinued the discharge of cooling water and steam condensate from the 242-T Bldg. evaporator.	Active	-----	-----
9/56	6/57	Received the steam condensate from the 221-T Bldg. Discontinued the discharge of cooling water from the 221-T and 224-T Bldg's. during shutdown of T Plant production operations.	Active	-----	-----
7/57	2/60	"	Inactive	221-T Bldg. on standby.	Disconnected and blanked the piping in the bldg.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-4 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/60	7/64	In February, 1960, CPD Services began equipment decontamination in the 221-T Bldg. canyon.	Inactive	Rerouted the 221-T Bldg. steam condensate, equipment decontamination and other waste to the 216-T-28 Crib.	The bldg. effluent was routed to the 216-T-28 Crib via the 112-T tank in the 241-T Tank Farm.
7/64	12/65	Received the decontamination waste from the 2706-T Bldg.	Active	-----	-----
12/65	11/70	Received the above bldg. effluent and the condenser cooling water from the 242-T Bldg. waste evaporator.	Active	-----	-----
11/70	----	Receives the condenser cooling water from the 242-T Bldg. Rerouted the 2706-T Bldg. effluent to the 216-T-36 Crib via the 221-T Bldg.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-4 Pond	T-Swamp	Active	See drawing H-2-34762 on page	2.5 acres	H-2-2430 H-2-44510 #3 SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/44	7/57	Received waste from the 216-T-4 Ditch.	Active	-----	-----
7/57	7/64	"	Inactive	221-T Bldg. on standby.	Disconnected and blanked the piping in the bldg.
7/64	----	"	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-5 Crib	216-T-5 Grave or Trench 216-T-12 241-T-5 Trench	Deactivated	N 43500 W 76200 to N 43550 W 76200	50 x 10	H-2-2430 H-2-44510 #3

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
5/55	5/55	Received the second cycle supernatant waste from the 221-T Bldg. via the 112-T tank in the 241-T Tank Farm.	Active	-----	-----
5/55	----	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-6 Crib	241-T-361 # 1 & 2 Cribs 216-T-5 361-T #1 & 2 Cribs (5-6 Waste)	Deactivated	N 43315 W 74442 to N 43315 W 74532	90 x 14	H-2-353 H-2-951

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
8/46	10/46	Received cell drainage from tank 5-6 in the 221-T Bldg. and waste from the 224-T Bldg. via the overflow from the 241-T-361 Settling Tank.	Active	-----	-----
10/46	6/51	Received cell drainage from tank 5-6 in the 221-T Bldg. Deactivated the 241-T-361 Settling Tank. Rerouted the 224-T Bldg. effluent to the 216-T-32 Crib.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-6 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/51	----	u	Deactivated	To evaluate the radionuclide disposal characteristics of the crib.	Blanked the pipeline to the crib south of the 241-T-361 Settling Tank. Rerouted the bldg. effluent to the 216-T-7. Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-7 Crib and Tile Field	241-T-3 Crib & Tile Field	Deactivated	Crib: N 43285 W 76000 Tile Field: N 43285 W 76000 to N 43285 W 76310	Crib: 12 x 12 Tile Field: 310 x 84	H-2-578 HW-72182 #1

Service DatesFrom    ToFunctionStatusRemoved from ServiceReasonMethod

4/48	6/51	Received the second cycle supernatant waste from the 221-T Bldg. via the 112-T tank in the 241-T Tank Farm.	Active	-----	-----
------	------	---	--------	-------	-------

6/51	6/52	Received the above bldg. effluent and cell drainage from tank 5-6 in the 221-T bldg. via the 112-T tank in the 241-T Tank Farm.	Active	-----	-----
------	------	---	--------	-------	-------

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-7 Crib and Tile Field (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/52	11/55	Received the above bldg. effluents and waste from the 224-T Bldg. via the 112-T tank in the 241-T Tank Farm.	Active	-----	-----
11/55	----		Deactivated	Reached the prescribed radionuclide disposal guide limit of the Crib and tile field.	Capped the pipeline to the crib. Rerouted the 221-T and 224-T Bldg. effluent to the 216-T-19 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-8 Crib	222-T-1 & 2 Crib	Deactivated	N 43510 W 72970 to N 43545 W 72950	90 x 14	H-2-353

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/50	9/51	Received the decontamination sink waste and sample "slurper" waste from the 222-T Bldg.	Active	-----	-----
9/51	----	"	Deactivated	Shutdown laboratory operations in the 222-T Bldg.	Blanked the pipeline in the bldg.

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216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-9 Crib	Decontamination Trenches Equipment Decontamination Area	Deactivated	N 43895 W 73750 to N 43895 W 73800	50 x 10	H-2-44511 #140

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/51	3/54	Received heavy equipment and vehicle decontamination waste.	Active	-----	-----
3/54	----	"	Deactivated	Transferred decontamination operations to the 269-W Site (216-T-13).	Backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-10 Crib	Decontamination Trenches Equipment Decontamination Area	Deactivated	N 43875 W 73750 to N 43875 W 73800	50 x 10	H-2-44511 #140

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/51	3/54	Received heavy equipment and vehicle decontamination waste.	Active	-----	-----
3/54	----	"	Deactivated	Transferred decontamination operations to the 269-W Site (216-T-13).	Backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-11 Crib	Decontamination Trenches Equipment Decontamination Area	Deactivated	N 43855 W 73750 to N 43855 W 73800	50 x 10	H-2-44511 #140

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/51	3/54	Received heavy equipment and vehicle decontamination waste.	Active	-----	-----
3/54	----	"	Deactivated	Transferred decontamination operations to the 269-W Site (216-T-13).	Backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-12 Crib	207-T Sludge Grave or Pit 216-T-11 Buried Sludge near 207-T Retention Basin	Deactivated	N 43560 W 75140	15 x 10	H-2-44510 #3

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/54	11/54	Received the contaminated sludge from the 207-T Retention Basin.	Active	-----	-----
11/54	----	"	Deactivated	Completed the removal of the sludge from the 207-T Retention Basin.	Backfilled the pit.

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216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-13 Crib	269-W Regulated Garage 269-W Decontamination Pit or Trench 216-T-12	Deactivated	N 42850 W 75840	20 x 20	H-2-1495 H-2-44510 #3 M-2600W #10

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/54	6/64	Received vehicle decontamination waste.	Active	-----	-----
6/64	----	"	Deactivated	Transferred decontamination operations to the 2706-T Bldg.	Backfilled the pit.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-14 Crib	241-T-1 Trench 216-T-1 Grave 216-T-13	Deactivated	N 43780 W 75275 to N 44000 W 75275	220 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/54	1/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 104, 105 and 106-T tanks in the 241-T Tank Farm.	Active	-----	-----
1/54		"	Deactivated	Reached the prescribed liquid waste volume for specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-15 Crib	241-T-2 Trench 216-T-2 Grave 216-T-14	Deactivated	N 43760 W 75185 to N 44000 W 75185	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/54	2/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 104, 105 and 106-T tanks in the 241-T Tank Farm.	Active	-----	-----
2/54	----	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-16 Crib	241-T-3 Trench 216-T-3 Grave 216-T-15	Deactivated	N 43760 W 75095 to N 44000 W 75095	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/54	2/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 104, 105 and 106-T tanks in the 241-T Tank Farm.	Active	-----	-----
2/54	----		Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-17 Crib	241-T-4 Trench 216-T-4 Grave 216-T-16	Deactivated	N 43760 W 75045 to N 44000 W 75045	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/54	6/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 104, 105 and 106-T tanks in the 241-T Tank Farm.	Active	-----	-----
6/54	---	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-18 Crib	216-T-17 216-U-10 Test Crib for 221-T Bldg. Scavenged TBP Waste	Deactivated	N 42647 W 75274	10 x 10	H-2-2733 SK-2-1773

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
12/53	12/53	Received the first cycle Scavenged TBP Supernatant waste from the 221-T Bldg.	Active	-----	-----
12/53	----	"	Deactivated	Completed the discharge of waste to the pit.	Removed the aboveground piping and backfilled the pit.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-19 Crib and Tile Field	241-TX-153 Crib and Tile Field 216-TX-1 241-TX-3	Active	Crib: N 41270 W 75608 Tile Field: N 41270 W 75608 to N 40870 W 75608	Crib: 14 x 14 Tile Field: 390 x 85	H-2-806 H-2-3019

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/51	7/55	Received the process condensate from the waste evaporator in the 242-T Bldg.	Active	-----	-----
7/55	12/55	242-T Bldg. on standby.	Inactive	Shutdown the operation of the waste evaporator.	Valved out the pipeline to the crib in the 242-T Bldg. and removed the jumper in the 241-TX-153 Diversion Box.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-T-19 Crib and Tile Field (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
12/55	8/56	Received the cell drainage from tank 5-6 and the second cycle supernatant waste from the 221-T Bldg. and waste from the 224-T Bldg.	Active	-----	-----
8/56	12/65		Inactive	Shutdown T Plant production operations and completed the discharge of second cycle supernatant waste to the crib.	Blanked the pipeline to the crib east of the 241-TY Tank Farm. Rerouted the bldg. effluent piping around the crib to discharge waste directly into the tile field.
12/65	----	Receives the process condensate and steam condensate from the waste evaporator in the 242-T Bldg.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-20 Crib	155-TX Contaminated Acid Pit or Grave 216-TX-2	Deactivated	N 41380 W 74720	10 x 10	H-2-44510 #3

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/52	11/52	Received contaminated nitric acid solution from the 241-TX-155 Diversion Box catch tank.	Active	-----	-----
11/52	----	"	Deactivated	Completed the discharge of the contaminated acid solution to the pit.	Removed the aboveground piping and backfilled the pit.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-21 Crib	241-TX-1 Trench 216-TX-1 Grave 216-TX-3	Deactivated	N 41530 W 76450 to N 41530 W 76690	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/54	8/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 109, 110 and 111-TX tanks in the 241-TX Tank Farm.	Active	-----	-----
8/54	----	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-22 Crib	241-TX-2 Trench 216-TX-2 Grave 216-TX-4	Deactivated	N 41620 W 76450 to N 41620 W 76690	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/54	8/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 109, 110 and 111-TX tanks in the 241-TX Tank Farm.	Active	-----	-----
8/54	----	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-23 Crib	241-TX-3 Trench 216-TX-3 Grave 216-TX-5	Deactivated	N 41710 W 76450 to N 41710 W 76690	240 x 10	SK-2-2409

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
7/54	8/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 109,110 and 111-TX tanks in the 241-TX Tank Farm.	Active	-----	-----
8/54	----	U	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-24 Crib	241-TX-4 Trench 216-TX-4 Grave 216-TX-6	Deactivated	N 41800 W 76450 to N 41800 W 76690	240 x 10	SK-2-2409

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
8/54	8/54	Received the first cycle supernatant waste from the 221-T Bldg. via the 109, 110 and 111-TX tanks in the 241-TX Tank Farm.	Active	-----	-----
8/54	----	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention trench.	Removed the aboveground piping and backfilled the trench.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-25 Crib	241-TX-5 Trench 216-TX-5 Grave 216-TX-7	Deactivated	N 41260 W 76570 to N 41440 W 76570	180 x 10	H-2-44510 #3

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/54	9/54	Received the first cycle evaporator bottoms from the 242-T Bldg. via the 101 and 102-TY tanks in the 241-TY Tank Farm.	Active	-----	-----
9/54	----	"	Deactivated	Completed the discharge of the evaporator bottoms to the trench.	Removed the aboveground piping and backfilled the trench.

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216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-26 Crib	216-TY-1 Cavern or Crib	Deactivated	N 42445 W 75330	30 x 30	H-2-2733 H-2-2735 H-2-2913

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
8/55	12/55	Received the first cycle scavenged TBP supernatant waste from the 221-T Bldg. via the 101, 103 and 104-TY tanks in the 241-TY Tank Farm.	Active	-----	-----
12/55	----	"	Deactivated	Discontinued the discharge of waste to the crib.	Blanked the pipeline to the crib between the east perimeter fence of the 241-TY Tank Farm and the roadway.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-27 Crib	216-TY-2 Cavern or Crib	Deactivated	N 42360 W 75330	30 x 30	H-2-2733 H-2-2735

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/65	11/65	Received 300 Area laboratory waste from the 340 Facility.	Active	-----	-----
11/65	----	"	Deactivated	Reached the prescribed radionuclide disposal guide limit of the crib.	Blanked the pipeline to the 216-T-26/28 Cribs and blanked the riser to the crib for disposal of the 300 Area waste.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-28 Crib	216-TY-3 Cavern or Crib	Deactivated	N 42275 W 75330	30 x 30	H-2-2733 H-2-2735

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/60	2/63	Received the steam condensate, decontamination waste and miscellaneous waste from the 221-T Bldg. via the 112-T tank in the 241-T Tank Farm.	Active	-----	-----
2/63	9/63	Received the above bldg. effluent and the decontamination waste from the 2706-T Bldg.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-T-28 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
9/63	7/64	Received the above bldg. effluents and 300 Area laboratory waste from the 340 Facility.	Active	-----	-----
7/64	5/66	Received the steam condensate, decontamination waste and miscellaneous waste from the 221-T Bldg. via the 112-T tank in the 241-T Tank Farm and 300 Area laboratory waste from the 340 Facility. Rerouted the decontamination waste from the 2706-T Bldg. to the 216-T-4 Ditch.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-T-28 Crib (Continued)

Service DatesFrom      ToFunctionStatusRemoved from ServiceReasonMethod

5/66      12/66

Received the steam condensate, decontamination waste and miscellaneous waste from the 221-T Bldg. via the 112-T tank in the 241-T Tank Farm. Rerouted the 300 Area laboratory waste from the 340 Facility to the 216-T-34 Crib.

Active

-----

-----

12/66      ----

"

Deactivated

Reached the prescribed radionuclide disposal guide limit of the crib.

Blanked the pipeline to the 216-T-26/28 Crib and the riser to the crib for disposal of the 300 Area waste. Rerouted the bldg. effluent to the 216-T-36 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-29 French Drains*	291-T Sand Filter Sewer	Inactive	N 44064 W 72850, N 44154 W 72789, N 44182 W 72825 and N 44091 W 72891	110 x 48	H-2-1345 H-2-1348 H-2-1351

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
3/49	3/64	Received the condensate runoff from the 291-T sand filter.	Active	-----	-----
3/64	----	"	Inactive	Installed air filters in each cell in the 221-T Bldg.	Removed the sand filter bypass water seal allowing the 221-T Bldg. exhaust air to flow directly to the 291-T-1 Stack.

\* Sixty vitrified soil pipes six inches in diameter.

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216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-30 Crib	Ground Contamination 241-TX-154 Diversion Box	Deactivated	N 43854 W 73215	Total Ground Area Involved: 160 x 90	HW-73577 #1

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/53	7/53	A jumper leak in the 241-TX-154 Diversion Box resulted in overflowing the 241-TX-302C Catch Tank spreading contaminated liquid over a large area behind the 221-T Bldg.	Active	-----	-----
7/53	----	"	Deactivated	Fix the contamination and provide shielding from radiation exposure.	Covered the contamination with earth and posted the area as a radiation zone.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-31 French Drain*	French Drain Near Tank Farm	Deactivated	N 41662 W 75527	Diameter: 36 inches	H-2-802 H-2-849 H-2-1495 W-70445

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
10/54	2/62	Received contaminated steam condensate from a blowout through the steam line during efforts to unplug a waste line in October, 1954.	Active	-----	-----
2/62	----	"	Deactivated	Replaced the contaminated French drain during installation of new steam line.	Removed the contaminated culvert, rock and soil and replaced the old French drain with a new one.

\* This is no longer a radiation zone.

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## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-32 Crib	241-T #1 & 2 Crib 216-T-6	Deactivated	N 43397 W 76058 to N 43447 W 76000	68 x 14	H-2-558 H-2-578 HW-72182 #1

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/46	5/52	Received waste from the 224-T Bldg. via the 201-T tank in the 241-T Tank Farm.	Active	-----	-----
5/52	----	"	Deactivated	Buildup of sludge in the 201/204-T tanks resulted in the termination of liquid waste disposal to the crib.	Blanked the pipeline to the crib east of the 241-T-151 and 152 Diversion Boxes. Rerouted the bldg. effluent to the 216-T-7 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-33 Crib	216-T-33 Crib	Deactivated	N 44080 W 73615	30 x 5	H-2-32096 H-2-32097

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/63	2/63	Received the decontamination waste from the 2706-T Bldg.	Active	-----	-----
2/63	----	"	Deactivated	Plugged the perforations in the tile line at the discharge point to the crib.	Removed sections of the tile line and rerouted the bldg. effluent to the 216-T-28 Crib via the 112-T tank in the 241-T Tank Farm.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-34 Crib	216-T-34 Crib	Deactivated	N 44680 W 74298 to N 44819 W 74165	200 x 30	H-2-32649 H-2-32650

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/66	3/67	Received 300 Area laboratory waste from the 340 Facility.	Active	-----	-----
3/67	----	"	Deactivated	Reached the prescribed radionuclide disposal guide limit of the crib.	Capped the pipelines north-east of the crib. Rerouted the discharge lines to the 216-T-35 Crib.

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-35 Crib	216-T-35 Crib	Active	N 44558 W 74575 to N 45005 W 74520	450 x 10	H-2-33446 H-2-33447

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/67	----	Receives intermittent 300 Area laboratory waste from the 340 Facility.	Active	-----	-----

## 216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-T-36 Crib	216-T-36 Crib	Active	N 43093 W 76000 to N 43093 W 76160	160 x 10	H-2-33472

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/67	11/70	Received the steam condensate, decontamination waste and miscellaneous waste from the 221-T and 221-U Bldg's.	Active	-----	-----
11/70		Receives the above bldg. effluents and the decontamination waste from the 2706-T Bldg.	Active	-----	-----

216-T LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

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## APPENDIX C

Appendix C contains the compilation of information on the function(s) and status of each 216-U liquid waste disposal facility as of August 31, 1971.

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## 216-U LIQUID WASTE DISPOSAL FACILITIES

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-1 & 2 Cribs*	216-U-1 & 2 (361-WR) 216-U-3 216-UR #1 & 2 Cribs	Deactivated	N 37860 W 74247 to N 37860 W 74322	Each Crib: 14 x 14	H-2-32527 H-2-50061

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	6/57	Received cell drainage from tank 5-6 in the 221-U Bldg. and waste from the 224-U Bldg. via the overflow from the 241-U-361 Settling Tank.	Active	-----	-----
6/57	7/57	Received waste from the 224-U Bldg. via the overflow from the 241-U-361 Settling Tank and contaminated solvent from	Active	-----	-----

\* Two cribs in series.

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## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-U-1 &amp; 2 Cribs (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
"	"	the 276-U Solvent Storage Area. Discontinued the discharge of 221-U waste during shutdown of production operations.	"	"	"
7/57	5/67	Received waste from the 224-U Bldg. and equipment decontamination and reclamation wastes from CPD Services operations in the 221-U Bldg. canyon.	Active	-----	-----
5/67	----	"	Deactivated	Reached the prescribed radionuclide disposal guide limit of the cribs.	Rerouted the jumper in the 241-UX-154 Diversion Box for disposal of the 221-U Bldg. waste and removed the piping from the C-2 tank in the 224-U Bldg. to the cribs. Rerouted the 221-U Bldg. effluent to the 216-T-36 Crib or underground storage tanks and the 224-U Bldg. effluent to the 216-U-12 Crib.

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216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-3 Crib	216-U-3 French Drain 216-U-11	Inactive	N 37620 W 75630	Diameter: 72 inches	H-2-32527 H-2-44004

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/54	8/55	Received condensed vapors from the condenser on the 110-U tank in the 241-U Tank Farm.	Active	-----	-----
8/55	----		Inactive	Tank contents no longer boiling.	Valved out the condenser piping to the crib.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-4 Reverse Well	222-U-110 Dry Well, Reverse Well or French Drain 216-U-2 222-U Dry Well 216-U-4 Dry Well	Inactive	N 38209 W 73218	Diameter: 6 inches	H-2-32527 H-2-50183

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
3/47	7/55	Received decontamination waste from hood sinks in the 222-U Bldg.	Active	-----	-----
7/55	----	"	Inactive	The reverse well plugged.	Installed an overflow line from the reverse well to the new 216-U-4A French Drain.

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216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-4A French Drain	216-U-4 Dry Well	Inactive	N 38214 W 73215	Diameter: 36 inches	H-2-50183 SK-2-3733

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/55	1/65	Received decontamination waste from hood sinks in the 222-U Bldg. via the overflow line from the 216-U-4 Reverse Well.	Active	-----	-----
1/65	7/70	Received PNL operations decontamination waste from a hood sink in the 222-U Bldg. via the overflow line from the 216-U-4 Reverse Well.	Active	-----	-----
7/70	----	"	Inactive	Shutdown PNL operations in the 222-U Bldg.	222-U Bldg. on standby.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-4B French Drain	216-U-4B Dry Well	Inactive	N 38248 W 73100	Diameter: 36 inches	H-2-34762

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
1/60	1/65	Received waste from a hot cell and hood in the 222-U Bldg.	Active	-----	-----
1/65	7/70	Received PNL operations waste from a hot cell and hood in the 222-U Bldg.	Active	-----	-----
7/70	----	"	Inactive	Shutdown PNL operations in the 222-U Bldg.	222-U Bldg. on standby.

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216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-5 Crib	221-U Cold U Trench #2 or Grave #2 216-U-4 "U" Facility Unirradiated Uranium Waste Trench	Deactivated	N 39027 W 72922	40 x 10	H-2-32527

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	3/52	Received the unirradiated uranium waste from the cold start-up run at U Plant.	Active	-----	-----
3/52	----	"	Deactivated	Completed the discharge of waste to the trench.	Removed the aboveground piping and backfilled the trench.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-6 Crib	221-U Cold U Trench #1 or Grave #1 216-U-5 "U" Facility Unirradiated Uranium Waste Trench	Deactivated	N 39042 W 73038 to N 39079 W 73103	75 x 10	H-2-32527

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	3/52	Received the unirradiated uranium waste from the cold start-up run at U Plant.	Active	-----	-----
3/52	----	"	Deactivated	Completed the discharge of waste to the trench.	Removed the aboveground piping and backfilled the trench.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-7 French Drain	221-U Vessel Vent Blower Pit French Drain*	Deactivated	N 38519 W 73112	Diameter: 30 inches	H-2-32527 H-2-43039 H-2-43078

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	6/57	Received the counting box floor drainage.	Active	-----	-----
6/57	----	"	Deactivated	Shut down production operations in the 221-U Bldg.	Removed the cell jumpers in the 221-U Bldg.

\* Past designation of this French drain is a misnomer. French drain is for the counting box.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-8 Crib	216-WR-1, 2, & 3 Cribs 216-U-9	Deactivated	N 36780 W 73100 to N 36940 W 73100	160 x 50	H-2-31321 H-2-32527 H-2-43027 H-2-43028 H-2-43057

Service Dates

<u>From</u>	<u>To</u>
6/52	6/57

FunctionStatusRemoved from ServiceReasonMethod

6/52	6/57
------	------

Received the process condensate from the 221-U and 224-U Bldg's, and the 291-U-1 Stack drainage.

Active

-----

-----

7/57	4/60
------	------

Received the process condensate from the 224-U Bldg. and the 291-U-1 Stack drainage. Discontinued the discharge of waste from the 221-U Bldg. during shut-down of production operations.

Active

-----

-----

216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

216-U-8 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
4/60	----	"	Deactivated	Ground settling around the vent risers.	Blanked the pipeline directly north of the crib. Rerouted the effluents to the 216-U-12 Crib.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-9 Ditch	U Swamp - S Swamp Ditch 216-U-6	Deactivated	N 32590 W 78066 to N 35810 N 78010	3300 x 6	H-2-2430 H-2-32527

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	4/54	Received the overflow from the 216-U-10 Pond.	Active	-----	-----
4/54	----	"	Deactivated	Deactivated the 216-S-17 Pond.	Backfilled the bottom area of the ditch.

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216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-10 Pond	231 Swamp U-Swamp 216-U-1	Active	See drawing H-2-34762 on page	22 acres	H-2-1495 H-2-2430 H-2-5962 H-2-32527 H-2-39579

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
7/44	3/52	Received the waste from the 216-U-14 and 216-Z-11 Ditches.	Active	-----	-----
3/52	----	Receives the above effluents and the cooling water from the condensers in the 401-SX Condenser Facility in the 241-SX Tank Farm.	Active	-----	-----

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-11 Trench (Old Trench)	U-Swamp Extention Ditch 216-U-11 Ditch	Deactivated	N 36630 W 77890 to N 36630 W 79850	1960 x 5*	SK-2-1888 M-26000W #23 M-26000W #24

Service DatesFrom    ToFunctionStatusRemoved from ServiceReasonMethod

11/44    7/55

Received the overflow  
from the 216-U-10 Pond.

Active

-----

-----

7/55    ----

"

Deactivated

Relocated the overflow  
from the 216-U-10 Pond  
to a higher elevation.Backfilled the bottom area  
of the ditch.

\* 810 feet of ditch used as part of  
the new 216-U-11 Ditch.

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216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-11 Trench (New Trench)	U-Swamp Extention Ditch 216-U-12 "U" Swamp 216-U-11 Ditch	Active	N 37460 W 78350 to N 37755 W 78629	3440 x 5*	H-2-2430 H-2-32527 SK-2-1888

Service Dates

From    To  
7/55    ----

Function  
Receives the overflow  
from the 216-U-10 Pond.

Status  
Active

Removed from Service

Reason  
-----

Method  
-----

\* Includes 810 feet of the  
old 216-U-11 Ditch.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-12 Crib	216-U-12 Crib	Active	N 36250 W 73150 to N 36350 W 73150	100 x 10	H-2-31321 H-2-32527

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
4/60	5/67	Received the 291-U-1 Stack drainage and the process condensate via the C-5 tank in the 224-U Bldg.	Active	-----	-----
5/67	----	Receives the above effluents and occasional waste via the C-7 tank in the 224-U Bldg.	Active	-----	-----

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-13 Cribs*	241-UR Steam Cleaning Pit 216-U-13 Trenches	Deactivated	N 37980 W 76020, N 38180 W 76020 and N 37980 W 76070, N 38180 W 76070	Each crib: 200 x 20	H-2-32527

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	3/56	Received decontamination waste from the 241-UR Steam Cleaning Pit.	Active	-----	-----
3/56	----	"	Deactivated	Transferred decontamination operations to the 269-W Decontamination Pit (216-T-13).	Backfilled the trenches.

\* Two cribs in parallel.

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-14 Ditch	216-U-14 Ditch	Active	N 36845 W 76910 to N 41270 W 74710	5680 x 8	H-2-576 H-2-1495 H-2-32527 M-2904W #14 M-2904W #18 M-2904W #19

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
7/44	9/44	Received waste water from the 284-W Power House.	Active	-----	-----
9/44	1/50	Received the above bldg. effluent and waste from the 2723-W Laundry Bldg.	Active	-----	-----
1/50	3/52	Received waste water from the 284-W Power House and waste from the new 2724-W Laundry Bldg.	Active	-----	-----

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-U-14 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/52	5/54	Received the above bldg. effluents, the chemical sewer waste from the 221-U Bldg. and the cooling water from the 224-U Bldg.	Active	-----	-----
5/54	8/55	Received the above bldg. effluents and the cooling water from the tank condenser on the 110-U tank in the 241-U Tank Farm.	Active	-----	-----
8/55	----	Receives waste water from the 284-W Power House, waste from the 2724-W Laundry Bldg., chemical sewer waste from the 221-U Bldg. and cooling water from the 224-U Bldg. Discontinued the discharge of cooling water from the condenser on the 110-U tank in the 241-U Tank Farm.	Active	-----	-----

## 216-U LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-U-15 Crib	388-U Tank Dumping	Deactivated	N 38270 W 73900	20 x 20	H-2-34762

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
5/57	5/57	Received miscellaneous waste from the 388-U tank in 276-U Solvent Storage Area.	Active	-----	-----
5/57	----	"	Deactivated	Completed the discharge of waste to the hole.	Removed the aboveground piping and backfilled the hole.

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## APPENDIX D

Appendix D contains the compilation of information on the function(s) and status of each 216-Z liquid waste disposal facility as of August 31, 1971.

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## 216-Z LIQUID WASTE DISPOSAL FACILITIES

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-1 Ditch	Drain Ditch to U Swamp	Deactivated	N 37050 W 76950 to N 40829 W 76505	4250 x 4*	H-2-576 H-2-10011 H-2-14035 M-2904W #15 M-2904W #18

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
12/44	7/49	Received process cooling water and steam condensate from the 231-Z Bldg.	Active	-----	-----
7/49	5/53	Received the above bldg. effluents and the process cooling water and steam condensate from the 234-5 Bldg. and the vacuum pump seal water from the 291-Z Bldg.	Active	Deactivated 1480 feet of ditch (7/49) as part of the construction of the 234-5 Bldg. (N 39331, W 76028 to N 40829, W 76505).	Backfilled the 1480 feet of ditch. Rerouted the 231-Z Bldg. effluent via an underground pipeline to the new head end of the ditch (N 39420, W 75991).

\* 665 feet (N 37050, W 76950 to N 37495, W 76460) of ditch used as part of the new 216-Z-11 Ditch.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-1 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/53	3/59	Received the process cooling water and steam condensate from the 234-5 Bldg., the vacuum pump seal water from the 291-Z Bldg. and the Hanford Laboratory waste from the 231-Z Bldg. Discontinued production operations in the 231-Z Bldg.	Active	-----	-----
3/59	----	"	Deactivated	Deactivated 2005 feet of ditch (3/59) after release of contamination to the ditch from the 231-Z Bldg. (N 37495, W 76460 to N 39420, W 75991).	Backfilled the 2005 feet of ditch with the berm from the excavation of the new 216-Z-11 Ditch. Used 665 feet of ditch south of 16th Street as part of the new ditch.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-1 Crib	234-5 #1 Crib 216-Z-7	Inactive	N 39379 W 76601	14 x 14	H-2-16459 H-2-24924 #2 H-2-32528

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/49	6/52	Received the process waste, analytical and development laboratory waste from the 234-5 Bldg. via the 241-Z Settling Tank.	Active	-----	-----
6/52	3/68	"	Inactive	Effluent flow rate exceeded the infiltration capacity of the crib and overflowed into the 216-Z-1A Tile Field.	Valved out the pipeline to the crib in diversion box #1 located north of the 216-Z-2 Crib. Plugged the pipeline from the crib to the 216-Z-1A Tile Field. Rerouted the bldg. effluent to the 216-Z-3 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-1 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/68	4/69	Received uranium waste from the 236-Z Bldg.	Active	-----	-----
4/69	----		Inactive	Discontinued the discharge of uranium waste from the 236-Z Bldg.	Blanked the pipeline directly west of the crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-1A Tile Field	234-5 Tile Field 216-Z-7	Deactivated	N 39334 W 76601 to N 39074 W 76601	260 x 100	H-2-16459 H-2-24923 H-2-32528

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/49	3/59	Received the process waste, analytical and development laboratory waste from the 234-5 Bldg. via the 241-Z Settling Tank.	Active	-----	-----
3/59	5/64	"	Inactive	Ground well samples indicated alpha contamination in the ground water.	Plugged the pipelines from the 216-Z-1 and 216-Z-3 Crib. Rerouted the bldg. effluent to the 216-Z-12 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-1A Tile Field (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/64	8/64	Received aqueous and organic waste from the 236-Z Bldg.	Active	-----	-----
8/64	3/68	Received the above bldg. effluent and waste from the 242-Z Bldg.	Active	-----	-----
3/68	4/69	Received the above bldg. effluents and uranium waste from the 236-Z Bldg.	Active	-----	-----
4/69	"	"	Deactivated	Reached the prescribed liquid waste volume for the specific retention tile field.	Blanked the pipelines to the tile field. Rerouted the bldg. effluents to the 216-Z-18 Cribs.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-2 Crib	234-5 #2 Crib 216-Z-7	Inactive	N 39411 W 76601	14 x 14	H-2-16459 H-2-24924 #2 H-2-32528

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
6/49	6/52	Received the process waste, analytical and development laboratory waste from the 234-5 Bldg. via the 241-Z Settling Tank.	Active	-----	-----
6/52	5/66	"	Inactive	Effluent flow rate exceeded the infiltration capacity of the crib and overflowed into the 216-Z-1A Tile Field.	Valved out the pipeline to the crib in diversion box #1 located north of the crib. Plugged the pipeline from the 216-Z-1 Crib. Rerouted the bldg. effluent to the 216-Z-3 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-2 Crib (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
5/66	6/66	Received waste from the 236-Z and 242-Z Bldgs.	Active	-----	-----
6/66	----	"	Inactive	Completed pipeline main- tenance work for rerouting bldg. effluents to the 216-Z-1A Tile Field.	Blanked the pipeline directly west of the crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-3 Crib	216-Z-3 Culvert 234-5 #3 and #4 Cribs 216-Z-8	Inactive	N 39353 W 76493 to N 39411 W 76540	70 x 5	H-2-12292 H-2-24923 H-2-32528

Service Dates

<u>From</u>	<u>To</u>
6/52	3/59

Received the process waste, analytical and development laboratory waste from the 234-5 Bldg. via the 241-Z Settling Tank.

3/59	----
------	------

"

Inactive

Ground well samples indicated alpha contamination in the ground water.

Removed from ServiceReason

-----

Method

-----

Valved out the pipeline to the crib in diversion box #1 located northwest of the crib. Plugged the pipeline from the crib to the 216-Z-1A Tile Field. Rerouted the bldg. effluent to the 216-Z-12 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-4 Crib	231-W-3 Pit, Sump or Crib 216-Z-3	Deactivated	N 40875 W 76475	10 x 10	H-2-32528

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/45	6/45	Received process waste from the 231-Z Bldg.	Active	-----	-----
6/45	----		Deactivated	Increased building effluent flow rate exceeded the infiltration capacity of the pit.	Capped the bldg. effluent pipeline to the pit west of the 231-W-151 Diversion Box and backfilled the pit. Rerouted the bldg. effluent to the 216-Z-6 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-5 Crib	231-W Sumps 231-W-1 & 2 Cribs	Deactivated	N 40912 W 76600 to N 40992 W 76600	80 x 14	H-2-346 H-2-32528 H-2-32682

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
6/45	2/47	Received process waste from the 231-Z Bldg.	Active	-----	-----
2/47	----	"	Deactivated	Process changes within the building affected the chemical makeup of the waste discharged to the crib.	Capped the pipeline to the crib west of the 231-W-151 Diversion Box. Rerouted the bldg. effluent to the 216-Z-7 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-6 Crib	231-W-4 Crib 216-Z-4	Deactivated	N 40712 W 76480 to N 40753 W 76508	50 x 6	H-2-508 H-2-32528 H-2-32682

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/45	6/45	Received process waste from the 231-Z- Bldg.	Active	-----	-----
6/45	----	"	Deactivated	Temporary crib during construction of the 216-Z-5 Crib.	Capped the pipeline to the crib west of the 231-W-151 Diversion Box. Rerouted the bldg. effluent to the 216-Z-5 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-7 Cribs*	231-W Trench or Crib 216-Z-6	Deactivated	N 40888 W 76055, N 40888 W 76195 and N 40912 W 76055, N 40912 W 76195	Each Crib: 140 x 5	H-2-511 H-2-32528 H-2-32682 H-2-33123

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Reason</u>	<u>Method</u>
2/47	5/53	Received process waste from the 231-Z Bldg.	Active	-----	-----
5/53	11/65	Received Hanford Laboratory waste from the 231-Z Bldg. Discontinued production operations in the 231-Z Bldg. (1955).	Active	-----	-----
11/65	2/67	Received waste from PNL operations in the 231-Z Bldg. and 300 Area laboratory waste from the 340 Facility.	Active	-----	-----

\* Two cribs in parallel.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-7 Cribs (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
"	"	Discontinued Hanford Laboratory operations in the 231-Z Bldg.	"	"	"
2/67	----	"	Deactivated	Reached the prescribed radionuclide disposal guide limit of the trenches.	Capped the pipeline to the trenches west of the 231-W-151 Diversion Box and backfilled the trenches. Rerouted the bldg. effluent to the 216-Z-17 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-8 French Drain	216-Z-8 Crib 234-5 Recuplex French Drain 216-Z-9	Deactivated	N 40000 W 76250	Diameter: 36 inches	H-2-16653 H-2-32528

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Reason</u>	<u>Method</u>
7/55	4/62	Received recuplex waste from the 234-5 Bldg. via the overflow from the silica slurry tank.	Active	-----	-----
4/62	----	"	Deactivated	Discontinued use of the crib during shutdown of the Recuplex operations in the 234-5 Bldg.	Disconnected the effluent piping in the bldg.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-9 Crib	216-Z-9 Cavern 234-5 Recuplex Cavern 216-Z-10	Deactivated	N 39830 W 75910 to N 39890 W 75910	60 x 30	H-2-15492 H-2-20986 H-2-32528

Service Dates

<u>From</u>	<u>To</u>	<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
				<u>Reason</u>	<u>Method</u>
7/55	6/62	Received recuplex CAW and aqueous and organic waste from the 234-5 Bldg.	Active	-----	-----
6/62		"	Deactivated	Reached the plutonium content guide limit of the crib.	Disconnected the effluent piping in the bldg.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-10 Reverse Well	231-W* Reverse Well 231-W-150 Dry Well or Reverse Well 216-Z-2	Deactivated	N 40804 W 76535	Diameter: 6 inches	H-2-32528 H-2-32682

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/45	6/45	Received process and Laboratory wastes from the 231-Z Bldg.	Active	-----	-----
6/45	----	"	Deactivated	Plugged the reverse well with sludge.	Capped the pipeline to the reverse well west of the 231-W-151 Diversion Box. Rerouted the bldg. effluent to the 216-Z-5 Crib.

\* "231-W" is the previous designation for the 231-Z Bldg.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-11 Ditch	216-Z-1 Ditch	Deactivated	N 37050 W 76950 to N 39420 W 75991	2615 x 4*	H-2-576 H-2-10011 H-2-32528 M-2904W #18

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/59	11/65	Received the process cooling water and steam condensate from the 234-5 Bldg., the vacuum pump seal water from the 291-Z Bldg. and the Hanford Laboratory waste from the 231-Z Bldg.	Active	-----	-----

\* Includes 665 feet (N 37050, W 76950 to N 37495, W 76460) of the old 216-Z-1 Ditch.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

## 216-Z-11 Ditch (Continued)

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
11/65	5/71	Received the process cooling water and steam condensate from the 234-5 Bldg., the vacuum pump seal water from the 291-Z Bldg. and the cooling water from PNL operations in the 231-Z Bldg. Discontinued Hanford Laboratory operations in the 231-Z Bldg.	Active	-----	-----
5/71	----	"	Deactivated	Deactivated 1715 feet of ditch. Excessive growth of vegetation in the ditch restricted the flow of liquid waste to the 216-U-10 Pond and also allowed sediment buildup in the ditch.	Backfilled 1715 feet of ditch (N 37775, W 76400 to N 39420, W 75991) with berm from the excavation of the new 216-Z-19 Ditch.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-12 Crib	216-Z-12 Crib	Active	N 39100 W 77200 to N 39400 W 77200	300 x 20	H-2-20986 H-2-20987 H-2-20988 H-2-32528

Service DatesFrom    ToFunctionStatusRemoved from ServiceReasonMethod

3/59    ----

Receives the process waste, analytical and development laboratory waste from the 234-5 Bldg. via the 241-Z Settling Tank.

Active

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216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-13 French Drain	234-5 Dry Well #1 216-Z-13 Dry Well	Active	N 39769 W 76762	Diameter: 36 inches	H-2-16412 H-2-32528

Service Dates

From    To  
6/49    ----

Function

Receives the steam condensate from the turbine for the ET-8 exhaust fan and floor drainage from the 291-Z Bldg.

Status

Active

Removed from Service

Reason

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Method

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## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-14 French Drain	234-5 Dry Well #2 216-Z-14 Dry Well	Active	N 39774 W 76822	Diameter: 36 inches	H-2-16412 H-2-32528

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
6/49	----	Receives the steam condensate from the turbine for the ET-9 exhaust fan in the 291-Z Bldg.	Active	-----	-----

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-15 French Drain	234-5 Dry Well #3 216-Z-15 Dry Well	Active	N 39911 W 76810	Diameter: 36 inches	H-2-16412 H-2-32528

Service Dates

<u>From</u>	<u>To</u>
6/49	----

Function:

Receives the drainage from the S-12 evaporator cooler in the 291-Z Bldg.

Status

Active

Removed from ServiceReason

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Method

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## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-16 Crib	216-Z-16 Crib	Active	N 41113 W 76892 to N 41113 W 77072	180 x 10	H-2-21718 H-2-26074 H-2-26075

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
3/68	---	Receives waste from PNL operations in the 231-Z Bldg.	Active	-----	-----

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-17 Crib	216-Z-17 Ditch or Trench	Deactivated	N 40795 W 76435 to N 40595 W 76435	300 x 10	H-2-32528 H-2-32682 SK-2-21718

<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
2/67	2/68	Received waste from PNL operations in the 231-Z Bldg.	Active	-----	-----
2/68	----	"	Deactivated	Temporary trench during construction of the 216-Z-16 Crib.	Capped and valved out the pipeline at the trench and west of the 231-W-151 Diversion Box, respectively, and backfilled the trench. Rerouted the bldg, effluent to the new 216-Z-16 Crib.

## 216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-18 Cribs*	216-Z-18 Crib	Active	N 38696 W 76830, N 38903 W 76830, N 38903 W 76930 and N 38696 W 76930	Each Crib: 207 x 10	H-2-26093 H-2-26094 SK-2-21808
<u>Service Dates</u>		<u>Function</u>	<u>Status</u>	<u>Removed from Service</u>	
<u>From</u>	<u>To</u>			<u>Reason</u>	<u>Method</u>
4/69	----	Receives waste from the 236-Z and 242-Z Bldg's.	Active	-----	-----

\* Three cribs un parallel.

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216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

<u>Facility Designation</u>	<u>Previous Designations</u>	<u>Present Status</u>	<u>Coordinates</u>	<u>Bottom Area (feet)</u>	<u>Drawing Numbers</u>
216-Z-19 Ditch	216-Z-11 Ditch	Active	N 37050 W 76950 to N 39420 W 75991	2675 x 4*	H-2-34762

Service Dates

From    To

Function

Status

Removed from Service

Reason

Method

5/71    ---    Receives the process cooling water and steam condensate from the 234-5 Bldg., the vacuum pump seal water from the 291-Z Bldg. and the cooling water from PNL operations in the 231-Z Bldg.

Active

-----

-----

\* Includes 665 feet (N 37050, W 76950 to N 37495, W 76460) of the old 216-Z-1 ditch and 235 feet (N 37495, W 76460 to N 37720, W 76400) of the old 216-Z-11 Ditch.

216-Z LIQUID WASTE DISPOSAL FACILITIES (CONTINUED)

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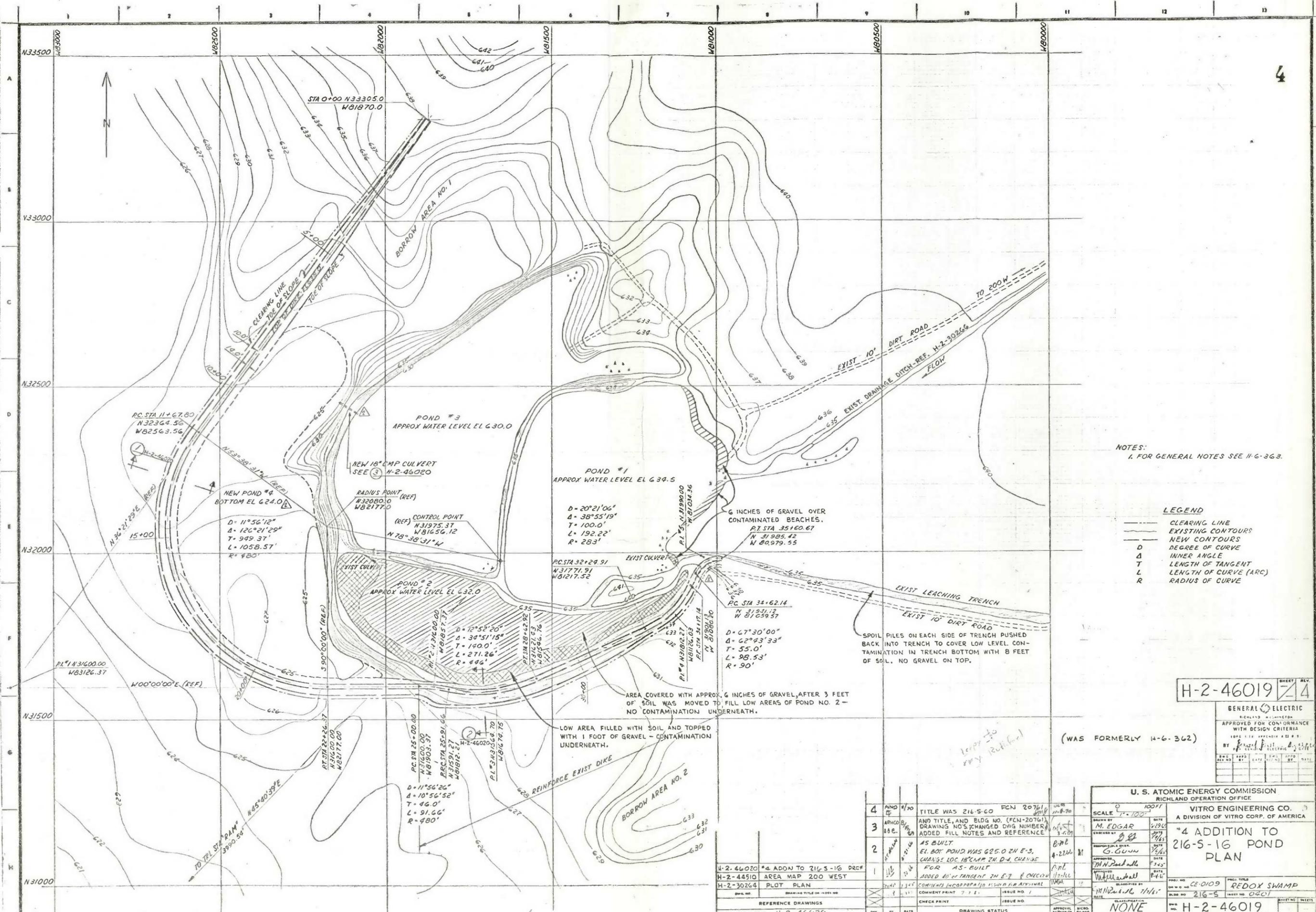
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## APPENDIX E

Appendix E contains the drawings of the 200 West Area and the 216-S-16 Pond.

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NOTES:  
1. FOR GENERAL NOTES SEE H-6-363.

- LEGEND**
- CLEARING LINE
  - EXISTING CONTOURS
  - NEW CONTOURS
  - ∠ DEGREE OF CURVE
  - Δ INNER ANGLE
  - T LENGTH OF TANGENT
  - L LENGTH OF CURVE (ARC)
  - R RADIUS OF CURVE

H-2-46019 SHEET 4

GENERAL ELECTRIC  
RICHLAND DIVISION  
APPROVED FOR CONFORMANCE  
WITH DESIGN CRITERIA  
BY: [Signature]

(WAS FORMERLY H-6-362)

U. S. ATOMIC ENERGY COMMISSION RICHLAND OPERATION OFFICE				VITRO ENGINEERING CO. A DIVISION OF VITRO CORP. OF AMERICA	
4	ADD	2/70	TITLE WAS 216-S-60 FCN 20761	SCALE	1"=100'
3	ARCHD	8/69	AND TITLE, AND BLDG NO. (FCN-20761)	DRAWN BY	M. EDGAR
2	AS BUILT	8-27-68	DRAWING NO'S CHANGED DIG NUMBER	CHECKED BY	G. GUNN
1	AS BUILT	11-11-67	ADDED FILL NOTES AND REFERENCE	APPROVED BY	[Signature]
H-2-46020 #4 ADDN TO 216-S-16 DRCF			COMMENTS INCORPORATED IN ISSUE NO. 1		
H-2-44510 AREA MAP 200 WEST			CHECK PRINT		
H-2-30264 PLOT PLAN			DRAWING STATUS		
REFERENCE DRAWINGS			APPROVAL AUTHORITY		
USED WITH DWG H-2-46020			CLASSIFICATION NONE		
			PROJECT TITLE REDDOX SWAMP		
			DRAWING NO. H-2-46019		
			SHEET NO. 4		

SPOIL PILES ON EACH SIDE OF TRENCH PUSHED BACK INTO TRENCH TO COVER LOW LEVEL CONTAMINATION IN TRENCH BOTTOM WITH 8 FEET OF SOL. NO GRAVEL ON TOP.

AREA COVERED WITH APPROX. 6 INCHES OF GRAVEL AFTER 3 FEET OF SOIL WAS MOVED TO FILL LOW AREAS OF POND NO. 2 - NO CONTAMINATION UNDERNEATH.

LOW AREA FILLED WITH SOIL AND TOPPED WITH 1 FOOT OF GRAVEL - CONTAMINATION UNDERNEATH.

6 INCHES OF GRAVEL OVER CONTAMINATED BEACHES.  
PT STA 35+60.67  
N 31985.42  
W 80979.55

POND #1  
APPROX WATER LEVEL EL 634.5  
D=20°21'06"  
A=38°55'19"  
T=100.0'  
L=192.22'  
R=283'

POND #3  
APPROX WATER LEVEL EL 630.0

NEW 16" CMP CULVERT  
SEE ③ H-2-46020

RADIUS POINT (REF)  
N32080.0  
W82177.0

CONTROL POINT (REF)  
N31975.37  
W81656.12  
N 78°38'31"W

POND #2  
APPROX WATER LEVEL EL 632.0

D=12°52'20"  
A=34°51'15"  
T=140.0'  
L=271.26'  
R=446'

NEW POND #4  
BOTTOM EL 624.0

D=11°56'12"  
A=126°21'29"  
T=949.37'  
L=1058.57'  
R=480'

PC STA 11+67.80  
N32364.56  
W82563.56

PL #1 N31600.00  
W83126.37

W00°00'00"E (REF)

TO TPL STA 39+50.56  
N85°40'59"E

PC STA 25+00.00  
N31600.00  
W81905.57

PC STA 23+91.66  
N3591.27  
W81818.21

D=11°56'26"  
A=10°56'52"  
T=46.0'  
L=91.66'  
R=480'

PL #2 N31600.00  
W83126.37

W00°00'00"E (REF)

- |     |                 |        |                           |
|-----|-----------------|--------|---------------------------|
| 1.  | M. D. Alford    | 23.    | L. M. Knights             |
| 2.  | G. E. Backman   | 24.    | L. L. Lundgren            |
| 3.  | O. F. Beaulieu  | 25.    | C. W. Malody              |
| 4.  | L. I. Brecke    | 26.    | B. J. McMurray            |
| 5.  | D. J. Brown     | 27.    | G. A. Nicholson           |
| 6.  | M. H. Campbell  | 28.    | G. C. Oberg               |
| 7.  | G. K. Carpenter | 29.    | R. E. Olson               |
| 8.  | D. T. Crawley   | 30.    | R. C. Roal                |
| 9.  | E. F. Curren    | 31.    | R. E. Roberts             |
| 10. | B. M. Dobbs     | 32.    | L. W. Roddy               |
| 11. | J. B. Fecht     | 33.    | W. C. Schmidt             |
| 12. | C. B. Foster    | 34.    | H. P. Shaw                |
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| 14. | G. L. Gurwell   | 36.    | P. W. Smith               |
| 15. | D. R. Gustavson | 37.    | R. E. Smith               |
| 16. | G. L. Hanson    | 38.    | R. M. Smithers            |
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