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Date: January 2002

To: D. A. Isom

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Title: HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

Revision Release No.: Revision 31

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Name: DA Isom

Date: 1/16/02

Environment & Regulation
N1-24

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
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HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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DISCLAIMER

This information has been formatted to be Internet viewable and is a facsimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

2.1 PERMITTING STATUS FOR DANGEROUS WASTE TREATMENT, STORAGE, AND/OR DISPOSAL UNITS

Shaded lines indicate closed TSD units.

Unit	Co-op [1]	Area [2]	Unit Type T=treatment S=storage D=disposal	Waste Type M=mixed D=dangerous	Unit classification [3]	Document type [4]
100 Area						
1324-N Surface Impoundment	BHI	100	T	D	7	3, 4
1706-DR Large Sodium Fire Facility	BHI	100	TS	D	1, 13, 17	
1706-KE Waste Treatment System	FH	100	TS	M	3, 13	2
183-H Solar Evaporation Basins	BHI	100	TS	M	3, 4	
1301-N Liquid Waste Disposal Facility	BHI	100	D	M	11	2, 3
1325-N Liquid Waste Disposal Facility	BHI	100	D	D	11	2, 3
1324-NA Percolation Pond	BHI	100	TD	D	8, 13	2, 3
[illegible]	BHI	100	TD	D	8, 13	2, 3
200 Areas						
[illegible]	FH	200W	T	D	13	3
[illegible] Demolition Site	Other	200W	T	D	13, 15	2
[illegible] Demolition Site	Other	200E	T	D	13, 15	2
242-A Evaporator	FH	200E	TS	M	3, 4	1
Grout Treatment Facility	CHG	200E	TSD	M	3, 4, 7, 11	12
Grout Treatment Facility	CHG	200E	TSD	M	3, 4, 7, 11	12
T Plant Complex	FH	200W	TS	M	1, 2, 3, 4, 10, 13	1
241-Z Treatment and Storage Tanks	FH	200W	TS	M	3, 4	7
B Plant Complex	BHI	200E	TS	M	1, 3, 4, 10	6, 7
222-S Laboratory Complex	FH	200W	TS	M	1, 2, 3, 4	1
204-AR Waste Unloading Station	CHG	200E	T	M	4	1
204-AR Waste Unloading Station	CHG	200E	T	M	4	1
PUREX Plant	BHI	200E	TS	M	3, 4, 10	7
Hanford Waste Vitrification Plant	DOE	200E	TS	M	1, 3, 4, 12, 13	13
Hanford Waste Vitrification Plant	DOE	200E	TS	M	1, 3, 4, 12, 13	13
200 Area Effluent Treatment Facility	FH	200E	TS	M	1, 3, 4	1
Waste Receiving and Processing Facility	FH	200W	TS	M	1, 2	1
Waste Receiving and Processing Facility	FH	200W	TS	M	1, 2	1
Plutonium Finishing Plant Treatment Unit	FH	200W	T	M	1, 2	
Plutonium Finishing Plant Treatment and Storage Unit	FH	200W	TS	M	1, 2	
2727-S Storage Facility	Other	200W	S	D	1, 15	2
Double-Shell Tank System	CHG	200EW	TS	M	3, 4	
Double-Shell Tank System	CHG	200EW	TS	M	3, 4	

Hexone Storage and Treatment Facility	BHI	200W	TS	M	1, 3, 4	2
2727-WA SRE Sodium Storage Building	FH	200W	S	M	1	8
PUREX Storage Tunnels	FH	200E		M	12	2
224-T Transuranic Waste Storage and Assay Facility	FH	200W	S	M	1	2, 7
Central Waste Complex	FH	200W	TS	M	1, 2	1
Central Waste Complex	FH	200W	TS	M	1, 2	1
Single-Shell Tank System	CHG	200EW	TS	M	3, 4, 5	11
Single-Shell Tank System	CHG	200EW	TS	M	3, 4, 5	11
207-A South Retention Basin	FH	200E	S	M	6	6
Liquid Effluent Retention Facility	FH	200E	TS	M	6, 7	1
241-CX Tank System	BHI	200E	S	M	3	6
Waste Encapsulation and Storage Facility	FH	200E	S	M	12	6
IHLW Interim Storage Unit	FH	200E	S	M	1	12
Low-Level Burial Grounds	FH	200EW	SD	M	1, 11	1
Low-Level Burial Grounds	FH	200EW	SD	M	1, 11	1
216-S-10 Pond and Ditch	BHI	200W	D	M	8	2, 3
[illegible] Pond	Other	200E	D	D	8, 15	2
216-A-29 Ditch	BHI	200E	TD	M	8, 13	2, 3
216-B-3 Main Pond	BHI	200E	TD	M	7, 8	2, 3
216-B-63 Trench	BHI	200E	TD	M	7, 8	2, 3
216-A-10 Crib	BHI	200E	D	M	11	2, 3
216-U-12 Crib	BHI	200W	D	M	11	2, 3
216-A-36B Crib	BHI	200W	D	M	11	2, 3
216-A-37-1 Crib	BHI	200E	D	M	11	2, 3
[illegible] Evaporation Ponds	Other	200E	TD	M	7, 8, 15	2
300 Area						
[illegible] Metal Treatment and [illegible]	FH	300	TS	M	1, 4, 13	2
[illegible]	PNNL	300	T	M	9, 16	8
[illegible] Facility	Other	300	TS	M	1, 2, 15	2
[illegible] Solvent Evaporator	Other	300	TS	M	1, 4, 15	2
300 Area Waste Acid Treatment System	FH	300	TS	M	3, 4, 13	2
303-M Oxide Facility	FH	300	T	M	9	2
325 Hazardous Waste Treatment Units	PNNL	300	TS	M	1, 2, 3, 4	1
[illegible] Treatment Test Facilities	PNNL	300	T	M	13, 16	8
Physical and Chemical Treatment Test Facilities	PNNL	300	TS	M	1, 13, 16	8
Thermal Treatment Test Facilities	PNNL	300	T	M	13, 16	8
311 Tanks	FH	300	TS	M	3, 4, 13	2
303-K Storage Facility	FH	300	S	M	1	2
305-B Storage Facility	PNNL	300	S	M	1	1
332 Storage Facility	PNNL	300	S	M	1, 16	8

300 Area Process Trenches	BHI	300	D	M	8	4
400 Area						
437 Maintenance and Storage Facility	FH	400	T	M	4	8
4843 Alkali Metal Storage Facility	FH	400	S	M	1, 15	2
Sodium Storage Facility and Sodium Reaction Facility	FH	400	TS	M	3, 4	9
600 Area						
Hanford Patrol Academy Demolition Site	Other	600	T	D	13, 15	2
618-4 Nonradioactive Dangerous Waste Storage Facility	FH	600	S	D	1	1
600 Area Purgewater Storage and Treatment Facility	BHI	600	TS	M	12, 13	10
Nonradioactive Dangerous Waste Landfill	BHI	600	D	D	11	2, 3
3000 Area						
Simulated High-Level Waste Slurry Treatment /Storage	PNNL	3000	TS	M	1, 2, 15	2

Unit	Part A Initial	Part A Latest	Part A Rev.	Submitted Document Type	Date	Doc #	Rev	RCRA Permit Location	Date closed
100 Area									
1324-N Surface Impoundment	08/01/86	6/30/94	3	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 18	
1324-N/NA Sodium Burning Pits	11/01/85	5/10/98	4	Closure Plan	03/01/95	DOE/RL-90-25	2	Part 5, Chapter 10	[illegible]
1706-KE Waste Treatment System	08/01/86	9/26/96	3	Closure Plan	07/08/99	99-EAP-362	0		
183-H Solar Evaporation Basins	11/01/85	6/30/94	4	Postclosure Plan	06/30/97	DOE/RL-97-48	0	Part 6, Chapter 2	
1301-N Liquid Waste Disposal Facility	08/01/86	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 17	
1325-N Liquid Waste Disposal Facility	02/01/87	2/25/97	7	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 16	
1324-NA Percolation Pond	08/01/86	6/30/94	3	Closure Plan	05/01/96	DOE/RL-96-39	0	Part 5, Chapter 19	
100-D Ponds	08/01/86	6/30/94	4	Closure Plan	03/31/98	DOE/RL-92-71	2	Part 5, Chapter 15	08/09/99
200 Areas									
241-T Tank Facility	11/1/85	9/26/96	3						[illegible]
216-B-3 Main Ash Pit Demolition Site	11/01/85	11/4/94	4	Closure Plan	10/06/94	DOE/RL-92-54	1	Part 5, Chapter 6	[illegible]
216-B-8 Borrow Pit Demolition Site	11/01/85	11/4/94	4	Closure Plan	10/21/94	DOE/RL-92-53	1	Part 5, Chapter 5	10/26/95
242-A Evaporator	9/1/87	9/26/96	7	Part B	07/01/97	DOE/RL-90-42	1	Part 3, Chapter 5	
Grout Treatment Facility	9/1/87	9/30/99	6	Part B	07/24/92	DOE/RL-88-27	2		

Grout Treatment Facility	9/1/87	12/21/99	7	Part B	07/24/92	DOE/RL-88-27	2		
T Plant Complex	12/01/87	2/5/01	8	Part B	12/19/95	DOE/RL-95-36	0		
241-Z Treatment and Storage Tanks	12/1/87	5/5/00	6	Closure Plan	12/31/96	DOE/RL-96-82	0		
B Plant Complex	12/1/87	11/22/99	8	Preclosure Work Plan	02/27/98	DOE/RL-98-12	0		
222-S Laboratory Complex	11/25/87	3/8/01	9	Part B	12/21/91	DOE/RL-91-27	0		
204-AR Waste Unloading Station	12/1/87	9/30/99	5						
204-AR Waste Unloading Station	12/1/87	12/21/99	6						
PUREX Plant	12/1/87	8/4/99	9	Preclosure Work Plan	06/30/95	DOE/RL-95-78	0		
Hanford Waste Vitrification Plant	5/1/88	9/26/96	5	Part B	10/31/91	DOE/RL-89-02	2		
Hanford Waste Vitrification Plant	5/1/88	9/30/99	6	Part B	10/31/91	DOE/RL-89-02	2		
200 Area Effluent Treatment Facility	06/26/91	5/22/98	3	Part B	07/01/97	DOE/RL-97-03	0	Part 3, Chapter 4	
Waste Receiving and Processing Facility	1/25/95	6/28/99	3	Part B	05/22/98	DOE/RL-91-16	1		
Waste Receiving and Processing Facility	1/25/95	9/26/96	1	Part B	05/22/98	DOE/RL-91-16	1		
Plutonium Finishing Plant Treatment Unit	12/23/98	4/10/00	1						
Plutonium Finishing Plant Treatment and Storage Unit	12/23/98	7/5/00	2						
[illegible] Storage Facility	11/1/85	11/16/87	2	Closure Plan	10/07/92	DOE/RL-88-37	3A	Part 3, Chapter 3	[illegible]
Double-Shell Tank System	9/1/87	9/30/99	9	Part B	08/28/91	DOE/RL-90-39	0		
Double-Shell Tank System	9/1/87	12/21/99	10	Part B	08/28/91	DOE/RL-90-39	0		
Hexone Storage and Treatment Facility	12/1/87	6/30/94	3	Closure Plan	11/24/92	DOE/RL-92-40	0		
[illegible] Sodium Storage Building	12/1/87	9/26/96	1						02/22/99
PUREX Storage Tunnels	12/1/87	9/26/00	5A	Part B	04/14/97	DOE/RL-90-24	4	Part 3, Chapter 3	
224-T Transuranic Waste Storage and Assay Facility	12/1/87	9/26/96	6	Part B	06/30/92	DOE/RL-91-51	0		
Central Waste Complex	5/1/88	6/28/99	6	Part B	05/22/98	DOE/RL-91-17	1		
Central Waste Complex	5/1/88	9/26/96	4	Part B	05/22/98	DOE/RL-91-17	1		
Single-Shell Tank System	2/1/88	12/21/99	6	Closure Work Plan	06/30/95	DOE/RL-89-16	0		
Single-Shell Tank System	2/1/88	10/29/01	7	Closure Work Plan	06/30/95	DOE/RL-89-16	0		

207-A South Retention Basin	2/26/90	9/26/96	2						
Liquid Effluent Retention Facility	2/26/90	5/22/98	6	Part B	07/01/97	DOE/RL-97-03	0	Part 3, Chapter 4	
241-CX Tank System	07/10/90	6/30/94	3						
Waste Encapsulation and Storage Facility	12/19/97	10/3/01	2						
IHLW Interim Storage Unit	06/28/99	6/28/99	0						
Low-Level Burial Grounds	11/1/85	12/23/98	11	Part B	07/31/97	DOE/RL-88-20	1		
Low-Level Burial Grounds	11/1/85	3/4/97	9	Part B	07/31/97	DOE/RL-88-20	1		
216-S-10 Pond and Ditch	02/01/87	6/30/94	3						
[illegible]	08/01/86	11/16/87	2	Closure Plan	07/01/94	DOE/RL-88-41	2A	Part 5, Chapter 7	[illegible]
216-A-29 Ditch	08/01/86	6/30/94	3						
216-B-3 Main Pond	08/01/86	3/30/00	6						
216-B-63 Trench	08/01/86	11/22/99	5						
216-A-10 Crib	08/01/87	6/30/94	3						
216-U-12 Crib	08/01/87	6/30/94	3						
216-A-36B Crib	02/01/88	6/30/94	1						
216-A-37-1 Crib	02/26/90	6/30/94	2						
[illegible]	[illegible]	[illegible]	0	[illegible]	10/31/94	[illegible]	2	[illegible]	
300 Area									
[illegible]	[illegible]	9/26/96	4	Closure Plan	11/20/95	DOE/RL-91-35	2	[illegible]	
[illegible]	[illegible]	5/19/88	3						
[illegible]	[illegible]	6/21/90	4	Closure Plan	11/30/93	DOE/RL-90-03	2	Part 5, Chapter 11	[illegible]
[illegible]	[illegible]	3/27/90	4	Closure Plan	09/24/92	DOE/RL-88-08	3B	Part 5, Chapter 2	06/27/95
300 Area Waste Acid Treatment System	09/01/87	9/26/96	5	Closure Plan	03/31/96	DOE/RL-90-11	1		
303-M Oxide Facility	05/01/88	9/26/96	1						
325 Hazardous Waste Treatment Units	05/19/88	6/29/00	4A	Part B	06/30/97	DOE/RL-92-35	1	Part 3, Chapter 6	
[illegible]	5/19/88	5/19/88	0						[illegible]
[illegible]	05/19/88	8/13/91	1						[illegible]
Thermal Treatment Test Facilities	05/19/88	5/19/88	0						5/13/96
311 Tanks		11/16/87	1	Closure Plan	03/31/96	DOE/RL-90-11	1		
303-K Storage Facility	08/01/87	9/26/96	5	Closure Plan	12/17/93	DOE/RL-90-04	2	Part 5, Chapter 14	

305-B Storage Facility	05/19/88	12/20/90	1	Part B	04/30/92		2	Part 3, Chapter 2	
332 Storage Facility	05/19/88	5/19/88	0						4/21/97
300 Area Process Trenches	11/01/85	5/25/95	4	Closure Plan	5/25/95		4	Part 6, Chapter 1	
400 Area									
437 Maintenance and Storage Facility	11/1/85	9/26/96	3						
[illegible] Metal Storage Facility	09/01/87	9/26/96	3	Closure Plan	09/30/95	DOE/RL-90-43	1	Part 5, Chapter 12	04/14/97
Sodium Storage Facility and Sodium Reaction Facility	05/01/95	9/26/96	1						
600 Area									
[illegible] Academy	11/01/85	12/15/94	4	Closure Plan	12/15/94	DOE/RL-93-39	1	Part 5, Chapter 9	[illegible]
[illegible] ctive [illegible]	11/01/85	3/4/97	7	Part B	10/31/91	DOE/RL-89-03	2	Part 3, Chapter 1	09/05/01
600 Area Purgewater Storage and Treatment Facility	02/20/90	9/11/98	3						
Nonradioactive Dangerous Waste Landfill	11/1/85	6/30/94	4	Closure Plan	09/30/90	DOE/RL-90-17	0		
3000 Area									
[illegible] Level [illegible] Storage	05/19/88	8/12/94	2	Closure Plan	11/07/94	DOE/RL-88-08	6A	Part 5, Chapter 4	[illegible]

[1] Co-op

BHI	-- Bechtel Hanford, Inc.
CHG	-- CH2M HILL Hanford Group, Inc.
FH	-- Fluor Hanford, Inc.
PNNL	-- Pacific Northwest National Laboratory.
RL	-- U. S. Department of Energy, Richland Operations Office
Other	-- Closed by a previous co-operator.

[2] Area

100	-- 100 Area
200E	-- 200 East Area
200W	-- 200 West Area
200EW	-- Parts of a TSD unit are located in both the 200 East and the 200 West Areas
300	-- 300 Area
400	-- 400 Area
500	-- Unused designation
600	-- 600 Area
3000	-- 3000 Area

[3] Unit classification

1	-- Container - Storage
2	-- Container - Treatment
3	-- Tank - Storage
4	-- Tank - Treatment
5	-- Waste pile
6	-- Surface impoundment - Storage
7	-- Surface impoundment - Treatment
8	-- Surface impoundment - Disposal
9	-- Incinerator
10	-- Containment Building
11	-- Landfill
12	-- Miscellaneous - Storage
13	-- Miscellaneous - Treatment
14	-- Land treatment
15	-- Certified clean closure; regulatory acceptance letter received.
16	-- Certified procedural closure; regulatory acceptance letter received.
17	-- Certified partial clean closure, regulatory acceptance letter received.

[4] Document type

1	-- Part B
2	-- Closure plan
3	-- Partial closure
4	-- Postclosure plan
5	-- Closure work plan
6	-- Undetermined
7	-- TSD unit being closed, or anticipated to be closed, under Section 8.0 of the Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement)
8	-- Procedural closure in accordance with Section 6.3.3 of the Tri-Party Agreement or in response to withdrawal requests submitted in fulfillment of Tri-Party Agreement Milestone M-20-45
9	-- To be designated as a TSD unit if the Fast Flux Test Facility sodium is determined to have no beneficial use
10	-- Interim status TSD unit to be closed in accordance with the Purgewater Management Plan [Attachment 5 of the HF RCRA Permit (DW Portion)]

11 -- TSD unit subject to the closure work plan/closure plan process in accordance with Tri-Party Agreement Milestone M-45-06

12 -- Interim status TSD unit in a standby mode

13 -- Interim status TSD unit is to be superseded by a high-level waste immobilization facility.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: Jan 8 2002 9:24AM
Return to the Hanford home page.

2.2 "Active" Process Capacity Report

An asterisk (*) denotes TSD units not in HF RCRA Permit

D81 - *Disposal - Landfill*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
1301-N Liquid Waste Disposal Facility	7	4,320,000.00 gallons per day	16,352,980.16 liters per day
1325-N Liquid Waste Disposal Facility	7	4,320,000.00 gallons per day	16,352,980.16 liters per day
216-A-10 Crib*	3	72,000.00 gallons per day	272,549.67 liters per day
216-A-36B Crib*	1	116,000.00 gallons per day	439,107.80 liters per day
216-A-37-1 Crib*	2	86,400.00 gallons per day	327,059.60 liters per day
216-U-12 Crib*	3	50,000.00 gallons per day	189,270.60 liters per day
Grout Treatment Facility*	6	184.84 acre-feet	22.80 hectare-meters
Low-Level Burial Grounds*	9	1,410.63 acre-feet	174.00 hectare-meters
Nonradioactive Dangerous Waste Landfill*	4	5.00 acre-feet	0.62 hectare-meters
9 unit(s) total		8,964,400.00 gallons per day 1,600.47 acre-feet	33,933,947.99 liters per day 197.42 hectare-meters
0 "closed" unit(s)		0.00 gallons per day 0.00 acre-feet	0.00 liters per day 0.00 hectare-meters
9 "Active" unit(s)		8,964,400.00 gallons per day 1,600.47 acre-feet	33,933,947.99 liters per day 197.42 hectare-meters

D84 - *Disposal - Surface Impoundment*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
[redacted]	[redacted]	[redacted]	[redacted]
1324-NA Percolation Pond	3	1,000,000.00 gallons	3,785,412.07 liters
[redacted]	[redacted]	[redacted]	[redacted]
216-A-29 Ditch*	3	6,000,000.00 gallons	22,712,472.44 liters
[redacted]	[redacted]	[redacted]	[redacted]
216-B-3 Main Pond*	6	840,000.00 gallons	3,179,746.14 liters
216-B-63 Trench*	5	199,999.33 gallons	757,080.00 liters
216-S-10 Pond and Ditch*	3	150,000.00 gallons	567,811.81 liters
300 Area Process Trenches	4	2,999,989.93 gallons per day	11,356,200.00 liters per day
9 unit(s) total		55,768,749.33 gallons 2,999,989.93 gallons per day	211,107,697.14 liters 11,356,200.00 liters per day
3 "closed" unit(s)		47,578,750.00 gallons 0.00 gallons per day	180,105,174.67 liters 0.00 liters per day
6 "Active" unit(s)		8,189,999.33 gallons 2,999,989.93 gallons per day	31,002,522.46 liters 11,356,200.00 liters per day

S01 - *Storage - Container*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
[redacted]	[redacted]	[redacted]	[redacted]
200 Area Effluent Treatment Facility	3	38,999.71 gallons	147,630.00 liters
222-S Laboratory Complex*	9	7,520.98 gallons	28,470.00 liters
224-T Transuranic Waste Storage and Assay Facility*	6	109,999.89 gallons	416,395.00 liters
[redacted]	[redacted]	[redacted]	[redacted]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible] Evaporator	[illegible]	[illegible]	[illegible]
303-K Storage Facility	5	11,000.12 gallons	41,640.00 liters
[illegible] Facility	[illegible]	[illegible]	[illegible]
305-B Storage Facility	1	30,000.00 gallons	113,562.36 liters
325 Hazardous Waste Treatment Units	4A	2,641.72 gallons	10,000.00 liters
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
B Plant Complex*	8	13,474.88 gallons	51,008.00 liters
Central Waste Complex*	4	5,999,345.84 gallons	22,710,000.00 liters
Hexone Storage and Treatment Facility*	3	40,000.00 gallons	151,416.48 liters
IHLW Interim Storage Unit*	0	404,183.14 gallons	1,530,000.00 liters
Low-Level Burial Grounds*	9	2,641,719.88 gallons	10,000,000.00 liters
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
T Plant Complex*	8	249,999.69 gallons	946,352.00 liters
Waste Receiving and Processing Facility*	1	19,416.64 gallons	73,500.00 liters
24 unit(s) total		9,709,979.07 gallons	36,756,278.09 liters
11 "closed" unit(s)		141,676.57 gallons	536,304.25 liters
13 "Active" unit(s)		9,568,302.50 gallons	36,219,973.85 liters

S02 - *Storage - Tank*	Rev	Process Design Capacity	
		English Units	SI Units
1706-KE Waste Treatment System*	3	650.13 gallons	2,461.00 liters
183-H Solar Evaporation Basins	4	2,167,000.00 gallons	8,202,987.96 liters
200 Area Effluent Treatment Facility	3	2,009,993.25 gallons	7,608,654.00 liters
222-S Laboratory Complex*	9	9,827.20 gallons	37,200.00 liters
241-CX Tank System*	3	33,340.00 gallons	126,205.64 liters
241-Z Treatment and Storage Tanks*	6	18,307.12 gallons	69,300.00 liters
242-A Evaporator	7	45,066.95 gallons	170,597.00 liters
300 Area Waste Acid Treatment System*	5	4,360.16 gallons	16,505.00 liters
300 Area Waste Acid Treatment System*	5	9,000.08 gallons	34,069.00 liters
325 Hazardous Waste Treatment Units	4A	3,321.70 gallons	12,574.00 liters
B Plant Complex*	8	214,317.45 gallons	811,280.00 liters
Double-Shell Tank System*	9	32,930,227.05 gallons	124,654,500.00 liters
Grout Treatment Facility*	6	799.91 gallons	3,028.00 liters
Hanford Waste Vitrification Plant*	6	109,988.01 gallons	416,350.00 liters
Hanford Waste Vitrification Plant*	6	113,987.57 gallons	431,490.00 liters
Hanford Waste Vitrification Plant*	6	183,979.94 gallons	696,440.00 liters
Hexone Storage and Treatment Facility*	3	48,000.00 gallons	181,699.78 liters
PUREX Plant*	9	333,710.77 gallons	1,263,233.00 liters
Single-Shell Tank System*	7	92,034,921.09 gallons	348,390,160.00 liters
Sodium Storage Facility and Sodium Reaction Facility*	1	291,999.07 gallons	1,105,337.00 liters

T Plant Complex*	8	77,399.75 gallons	292,990.00 liters
21 unit(s) total		130,640,197.19 gallons	494,527,061.38 liters
0 "closed" unit(s)		0.00 gallons	0.00 liters
21 "Active" unit(s)		130,640,197.19 gallons	494,527,061.38 liters

S03 - *Storage - Waste Pile*	Rev	Process Design Capacity English Units	SI Units
Single-Shell Tank System*	7	0.14 cubic yards	0.11 cubic meters
1 unit(s) total		0.14 cubic yards	0.11 cubic meters
0 "closed" unit(s)		0.00 cubic yards	0.00 cubic meters
1 "Active" unit(s)		0.14 cubic yards	0.11 cubic meters

S04 - *Storage - Surface Impoundment*	Rev	Process Design Capacity English Units	SI Units
207-A South Retention Basin*	2	210,000.09 gallons	794,937.00 liters
Liquid Effluent Retention Facility	6	23,379,220.92 gallons	88,500,000.00 liters
2 unit(s) total		23,589,221.01 gallons	89,294,937.00 liters
0 "closed" unit(s)		0.00 gallons	0.00 liters
2 "Active" unit(s)		23,589,221.01 gallons	89,294,937.00 liters

S06 - *Storage - Containment Building*	Rev	Process Design Capacity English Units	SI Units
B Plant Complex*	8	46,000.62 cubic yards	35,170.00 cubic meters
PUREX Plant*	9	562.42 cubic yards	430.00 cubic meters
T Plant Complex*	8	46,000.62 cubic yards	35,170.00 cubic meters
3 unit(s) total		92,563.66 cubic yards	70,770.00 cubic meters
0 "closed" unit(s)		0.00 cubic yards	0.00 cubic meters
3 "Active" unit(s)		92,563.66 cubic yards	70,770.00 cubic meters

S99 - *Storage - Miscellaneous Unit*	Rev	Process Design Capacity English Units	SI Units
600 Area Purgewater Storage and Treatment Facility*	3	999,996.64 gallons	3,785,400.00 liters
Hanford Waste Vitrification Plant*	6	599.93 gallons	2,271.00 liters
Waste Encapsulation and Storage Facility*	2	1,199.34 gallons	4,540.00 liters
3 unit(s) total		1,001,795.92 gallons	3,792,211.00 liters
0 "closed" unit(s)		0.00 gallons	0.00 liters
3 "Active" unit(s)		1,001,795.92 gallons	3,792,211.00 liters

T01 - *Treatment - Tank*	Rev	Process Design Capacity English Units	SI Units
183-H Solar Evaporation Basins	4	700.00 gallons per day	2,649.79 liters per day

200 Area Effluent Treatment Facility	3	215,999.17 gallons per day	817,646.00 liters per day
222-S Laboratory Complex*	9	206.05 gallons per day	780.00 liters per day
241-Z Treatment and Storage Tanks*	6	4,299.93 gallons per day	16,277.00 liters per day
[redacted]	4	[redacted]	[redacted]
300 Area Waste Acid Treatment System*	5	3,699.99 gallons per day	14,006.00 liters per day
300 Area Waste Acid Treatment System*	5	4,999.98 gallons per day	18,927.00 liters per day
[redacted]	3	[redacted]	[redacted]
325 Hazardous Waste Treatment Units	4A	3,321.70 gallons per day	12,574.00 liters per day
[redacted]	4	[redacted]	[redacted]
437 Maintenance and Storage Facility	3	5.28 gallons per day	20.00 liters per day
B Plant Complex*	8	28,299.69 gallons per day	107,126.00 liters per day
Double-Shell Tank System*	9	32,930,227.05 gallons per day	124,654,500.00 liters per day
Grout Treatment Facility*	6	1,315.05 gallons per day	4,978.00 liters per day
Hanford Waste Vitrification Plant*	6	8,727.71 gallons per day	33,038.00 liters per day
Hanford Waste Vitrification Plant*	6	110.16 gallons per day	417.00 liters per day
Hanford Waste Vitrification Plant*	6	17,598.08 gallons per day	66,616.00 liters per day
PUREX Plant*	9	103,555.42 gallons per day	392,000.00 liters per day
Single-Shell Tank System*	7	599,997.99 gallons per day	2,271,240.00 liters per day
Sodium Storage Facility and Sodium Reaction Facility*	1	713.26 gallons per day	2,700.00 liters per day
T Plant Complex*	8	53,999.92 gallons per day	204,412.00 liters per day
21 unit(s) total		33,978,008.33 gallons per day	128,620,784.58 liters per day
3 "closed" unit(s)		231.89 gallons per day	877.79 liters per day
18 "Active" unit(s)		33,977,776.44 gallons per day	128,619,906.79 liters per day

T02 - *Treatment - Surface Impoundment*	Rev	Process Design Capacity English Units	 SI Units
1324-N Surface Impoundment	3	400,000.00 gallons per day	1,514,164.83 liters per day
[redacted]	0	[redacted]	[redacted]
216-B-3 Main Pond*	6	840,000.00 gallons per day	3,179,746.14 liters per day
216-B-63 Trench*	5	199,999.33 gallons per day	757,080.00 liters per day
Grout Treatment Facility*	6	100,999.56 gallons per day	382,325.00 liters per day
Liquid Effluent Retention Facility	6	23,379,220.92 gallons per day	88,500,000.00 liters per day
6 unit(s) total		52,880,219.80 gallons per day	200,173,437.54 liters per day
1 "closed" unit(s)		27,960,000.00 gallons per day	105,840,121.56 liters per day
5 "Active" unit(s)		24,920,219.80 gallons per day	94,333,315.97 liters per day

T03 - *Treatment - Incinerator*	Rev	Process Design Capacity English Units	 SI Units
303-M Oxide Facility*	1	0.10 tons per hour	0.09 metric tons per hour
1 unit(s) total		0.10 tons per hour	0.09 metric tons per hour
0 "closed" unit(s)		0.00 tons per hour	0.00 metric tons per hour
1 "Active" unit(s)		0.10 tons per hour	0.09 metric tons per hour

T04 - *Treatment - Other*	Rev	Process Design Capacity English Units	SI Units
[redacted]	4	[redacted]	[redacted]
[redacted]	4	[redacted]	[redacted]
1324-NA Percolation Pond	3	1,000,000.00 gallons per day	3,785,412.07 liters per day
1706-KE Waste Treatment System*	3	1,499.97 gallons per day	5,678.00 liters per day
200 Area Effluent Treatment Facility	3	4,999.98 gallons per day	18,927.00 liters per day
[redacted]	4	[redacted]	[redacted]
204-AR Waste Unloading Station*	5	49,999.83 gallons per day	189,270.00 liters per day
216-A-29 Ditch*	3	6,000,000.00 gallons per day	22,712,472.44 liters per day
[redacted]	4	[redacted]	[redacted]
[redacted]	3	[redacted]	[redacted]
242-A Evaporator	7	229,999.23 gallons per day	870,642.00 liters per day
300 Area Waste Acid Treatment System*	5	4,199.81 gallons per day	15,898.00 liters per day
[redacted]	4	[redacted]	[redacted]
325 Hazardous Waste Treatment Units	4A	399.96 gallons per day	1,514.00 liters per day
[redacted]	4	[redacted]	[redacted]
600 Area Purgewater Storage and Treatment Facility*	3	2,332.64 gallons per day	8,830.00 liters per day
[redacted]	0	[redacted]	[redacted]
Central Waste Complex*	4	11,998.69 gallons per day	45,420.00 liters per day
Grout Treatment Facility*	6	100,999.56 gallons per day	382,325.00 liters per day
[redacted]	4	[redacted]	[redacted]
Hanford Waste Vitrification Plant*	6	1,585.03 gallons per day	6,000.00 liters per day
Hexone Storage and Treatment Facility*	3	3,000.00 gallons per day	11,356.24 liters per day
[redacted]	1	[redacted]	[redacted]
Plutonium Finishing Plant Treatment Unit*	1	26.42 gallons per day	100.00 liters per day
[redacted]	2	[redacted]	[redacted]
[redacted]	0	[redacted]	[redacted]
Waste Receiving and Processing Facility*	1	3,407.82 gallons per day	12,900.00 liters per day
27 unit(s) total		7,518,578.23 gallons per day	28,460,917.06 liters per day
12 "closed" unit(s)		104,129.30 gallons per day	394,172.31 liters per day
15 "Active" unit(s)		7,414,448.93 gallons per day	28,066,744.75 liters per day

An asterisk (*) denotes TSD units not in HF RCRA Permit
Shaded lines indicate closed TSD units
Information derived from the Part A Manual (DOE/RL 88-21), Section 2.1 and HF RCRA Permit (WA 7890008967), Contents, and subsequent written communications from Ecology.

Last Updated: Jan 8 2002 9:24AM

2.4.1 - Hanford Facility Treatment, Storage, and/or Disposal Units - Unit Classification Report *

	Part A, Form 3	Rev	Co-op [1] /MSC	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Submitted Document Dated	Submitted Document Rev	Location in HF RCRA Permit	Date Closed
	Final Status									
1	[redacted] Dangerous Waste Storage Facility	7	FH	600	S	Part B	10/31/91	2	Part 3, Chapter 1	09/05/01
2	305-B Storage Facility	1	PNNL	300	S	Part B	04/30/92	2	Part 3, Chapter 2	
3	PUREX Storage Tunnels	5A	FH	200E		Part B	04/14/97	4	Part 3, Chapter 3	
4	200 Area Effluent Treatment Facility	3	FH	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4	
5	Liquid Effluent Retention Facility	6	FH	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4	
6	242-A Evaporator	7	FH	200E	TS	Part B	07/01/97	1	Part 3, Chapter 5	
7	325 Hazardous Waste Treatment Units	4A	PNNL	300	TS	Part B	06/30/97	1	Part 3, Chapter 6	
	Clean Closed									
1	[redacted]	4	Other	300	TS	Closure Plan	09/24/92	3B	Part 5, Chapter 2	[redacted]
2	[redacted]	2	Other	200W	S	Closure Plan	10/07/92	3A	Part 5, Chapter 2	[redacted]
3	[redacted] Waste Slurry Treatment /Storage	2	PNNL	3000	TS	Closure Plan	11/07/94	0A	Part 5, Chapter 2	[redacted]
4	[redacted]	4	Other	200E	T	Closure Plan	10/21/93	1	Part 5, Chapter 2	[redacted]
5	[redacted]	4	Other	200W	T	Closure Plan	10/20/93	1	Part 5, Chapter 2	[redacted]
6	[redacted]	2	Other	200E	D	Closure Plan	07/01/94	2A	Part 5, Chapter 2	[redacted]
7	[redacted]	0	Other	200E	TD	Closure Plan	09/31/94	2	Part 5, Chapter 2	[redacted]
8	[redacted] Contamination Sites	4	Other	600	T	Closure Plan	12/15/94	1	Part 5, Chapter 2	[redacted]
9	[redacted] Facility	4	BHI	100	TS	Closure Plan	03/01/95	2	Part 5, Chapter 2	[redacted]
10	[redacted]	4	Other	300	TS	Closure Plan	11/30/95	2	Part 5, Chapter 2	[redacted]
11	[redacted] Storage Facility	3	FH	400	S	Closure Plan	06/20/96	1	Part 5, Chapter 2	[redacted]
12	[redacted] Treatment and Storage Area	4	FH	300	TS	Closure Plan	11/20/95	2	Part 5, Chapter 2	[redacted]
13	[redacted]	4	BHI	100	TD	Closure Plan	03/31/96	2	Part 5, Chapter 2	[redacted]
	Undergoing Closure (Following Closure Plan)									
1	303-K Storage Facility	5	FH	300	S	Closure Plan	12/17/93	2	Part 5, Chapter 14	
2	1325-N Liquid Waste Disposal Facility	7	BHI	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 16	
3	1301-N Liquid Waste Disposal Facility	7	BHI	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 17	
4	1324-N Surface Impoundment	3	BHI	100	T	Closure Plan	05/01/96	0	Part 5, Chapter 18	
5	1324-NA Percolation Pond	3	BHI	100	TD	Closure Plan	05/01/96	0	Part 5, Chapter 19	
	Postclosure									
1	300 Area Process Trenches	4	BHI	300	D	Closure Plan	05/25/95	4	Part 6, Chapter 1	
2	183-H Solar Evaporation Basins	4	BHI	100	TS	Postclosure Plan	06/30/97	0	Part 6, Chapter 2	
	Planned Final Status									
1	204-AR Waste Unloading Station	5	CHG	200E	T					
2	222-S Laboratory Complex	9	FH	200W	TS	Part B	12/21/91	0		
3	Central Waste Complex	4	FH	200W	TS	Part B	05/22/98	1		
4	Double-Shell Tank System	9	CHG	200EW	TS	Part B	08/28/91	0		
5	Hanford Waste Vitrification Plant	6	DOE	200E	TS	Part B	10/31/91	2		
6	HLW Interim Storage Unit	0	FH	200E	S					
7	Low-Level Burial Grounds	9	FH	200EW	SD	Part B	07/31/97	1		
8	Single-Shell Tank System	7	CHG	200EW	TS	Closure Work Plan	06/30/95	0		
9	T Plant Complex	8	FH	200W	TS	Part B	12/19/95	0		
10	Waste Receiving and Processing Facility	1	FH	200W	TS	Part B	05/22/98	1		
	To Be Closed									
1	1706-KE Waste Treatment System	3	FH	100	TS	Closure Plan	07/08/99	0		
2	216-A-10 Crib	3	BHI	200E	D					
3	216-A-29 Ditch	3	BHI	200E	TD					
4	216-A-36B Crib	1	BHI	200W	D					
5	216-A-37-1 Crib	2	BHI	200E	D					
6	216-B-3 Main Pond	6	BHI	200E	TD					
7	216-B-63 Trench	5	BHI	200E	TD					
8	216-S-10 Pond and Ditch	3	BHI	200W	D					
9	216-U-12 Crib	3	BHI	200W	D					
10	300 Area Waste Acid Treatment System	5	FH	300	TS	Closure Plan	03/31/96	1		
11	303-M Oxide Facility	1	FH	300	T					
12	Grout Treatment Facility	6	CHG	200E	TSD	Part B	07/24/92	2		
13	Hexone Storage and Treatment Facility	3	BHI	200W	TS	Closure Plan	11/24/92	0		
14	Nonradioactive Dangerous Waste Landfill	4	BHI	600	D	Closure Plan	09/30/90	0		
	Closing Under Key Facility Provisions (TPA Section 8.0)									
1	224-T Transuranic Waste Storage and Assay Facility	6	FH	200W	S	Part B	06/30/92	0		
2	241-Z Treatment and Storage Tanks	6	FH	200W	TS	Closure Plan	12/31/96	0		
3	B Plant Complex	8	BHI	200E	TS	Preclosure Work Plan	02/27/96	0		
4	PUREX Plant	9	BHI	200E	TS	Preclosure Work Plan	06/30/95	0		
	Procedural Closure									
1	[redacted]	3	FH	200W	T					[redacted]
2	[redacted] Storage Building	1	FH	200W	S					[redacted]
3	[redacted]	3	PNNL	300	T					[redacted]
4	[redacted]	0	PNNL	300	S					4/21/97
5	437 Maintenance and Storage Facility	3	FH	400	T					
6	[redacted] Treatment Test Facilities	0	PNNL	300	T					[redacted]
7	[redacted] Treatment Test Facilities	1	PNNL	300	TS					[redacted]
8	[redacted] Treatment Test Facilities	0	PNNL	300	T					[redacted]
	Other									
1	207-A South Retention Basin	2	FH	200E	S					
2	241-CX Tank System	3	BHI	200E	S					
3	300 Area Purgewater Storage and Treatment Facility	3	BHI	600	TS					
4	Plutonium Finishing Plant Treatment Unit	1	FH	200W	T					
5	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400	TS					
6	Waste Encapsulation and Storage Facility	2	FH	200E	S					

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

Rev. date: Jan 8 2002 9:24AM

2.4.2 - Hanford Facility Treatment, Storage, and/or Disposal Units - Document Type Report *

	Part A, Form 3	Rev	Co-op [1] /MSC	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Dated	Submitted Document Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	Closure Plan									
1	[redacted]	4	Other	300	TS	09/24/92	3B	[redacted]	[redacted]	CC
2	[redacted]	2	Other	200W	T	10/07/92	1A	[redacted]	[redacted]	CC
3	[redacted]	2	PNNL	3000	TS	11/07/94	4A	[redacted]	[redacted]	CC
4	[redacted]	4	Other	200E	T	10/21/94	1	[redacted]	[redacted]	CC
5	[redacted]	4	Other	200W	T	10/05/94	1	[redacted]	[redacted]	CC
6	[redacted]	2	Other	200E	S	07/01/94	2A	[redacted]	[redacted]	CC
7	[redacted]	0	Other	200E	TD	10/31/94	2	[redacted]	[redacted]	CC
8	[redacted]	4	Other	600	T	12/15/94	1	[redacted]	[redacted]	CC
9	[redacted]	4	BHI	100	TS	03/01/95	2	[redacted]	[redacted]	CC
10	[redacted]	4	Other	300	TS	11/30/93	2	Part 5, Chapter 11	01/14/99	CC
11	[redacted] Facility	3	FH	400	S	09/30/95	1	Part 5, Chapter 12	04/14/97	CC
12	[redacted] and Storage Area	4	FH	300	TS	11/20/95	2	Part 5, Chapter 13	08/04/99	CC
13	303-K Storage Facility	5	FH	300	S	12/17/93	2	Part 5, Chapter 14		UC
14	[redacted]	4	BHI	100	TD	03/31/98	2	Part 5, Chapter 15	08/09/99	CC
15	1325-N Liquid Waste Disposal Facility	7	BHI	100	D	05/01/96	0	Part 5, Chapter 16		UC
16	1301-N Liquid Waste Disposal Facility	7	BHI	100	D	05/01/96	0	Part 5, Chapter 17		UC
17	1324-N Surface Impoundment	3	BHI	100	T	05/01/96	0	Part 5, Chapter 18		UC
18	1324-NA Percolation Pond	3	BHI	100	TD	05/01/96	0	Part 5, Chapter 19		UC
19	300 Area Process Trenches	4	BHI	300	D	05/25/95	4	Part 6, Chapter 1		PC
20	1706-KE Waste Treatment System	3	FH	100	TS	07/08/99	0			TBC
21	241-Z Treatment and Storage Tanks	6	FH	200W	TS	12/31/96	0			TPA/8
22	300 Area Waste Acid Treatment System	5	FH	300	TS	03/31/96	1			TBC
23	Hexone Storage and Treatment Facility	3	BHI	200W	TS	11/24/92	0			TBC
24	Nonradioactive Dangerous Waste Landfill	4	BHI	600	D	09/30/90	0			TBC
	Closure Work Plan									
1	Single-Shell Tank System	7	CHG	200EW	TS	06/30/95	0			Pln FS
	Part B									
1	[redacted] Waste Storage Facility	7	FH	600	S	10/31/91	2	Part 3, Chapter 1	09/05/01	FS
2	305-B Storage Facility	1	PNNL	300	S	04/30/92	2	Part 3, Chapter 2		FS
3	PUREX Storage Tunnels	5A	FH	200E		04/14/97	4	Part 3, Chapter 3		FS
4	200 Area Effluent Treatment Facility	3	FH	200E	TS	07/01/97	0	Part 3, Chapter 4		FS
5	Liquid Effluent Retention Facility	6	FH	200E	TS	07/01/97	0	Part 3, Chapter 4		FS
6	242-A Evaporator	7	FH	200E	TS	07/01/97	1	Part 3, Chapter 5		FS
7	325 Hazardous Waste Treatment Units	4A	PNNL	300	TS	06/30/97	1	Part 3, Chapter 6		FS
8	222-S Laboratory Complex	9	FH	200W	TS	12/21/91	0			Pln FS
9	224-T Transuranic Waste Storage and Assay Facility	6	FH	200W	S	06/30/92	0			TPA/8
10	Central Waste Complex	4	FH	200W	TS	05/22/98	1			Pln FS
11	Double-Shell Tank System	9	CHG	200EW	TS	06/28/91	0			Pln FS
12	Grout Treatment Facility	6	CHG	200E	TSD	07/24/92	2			TBC
13	Hanford Waste Vitrification Plant	6	DOE	200E	TS	10/31/91	2			Pln FS
14	Low-Level Burial Grounds	9	FH	200EW	SD	07/31/97	1			Pln FS
15	T Plant Complex	8	FH	200W	TS	12/19/95	0			Pln FS
16	Waste Receiving and Processing Facility	1	FH	200W	TS	05/22/98	1			Pln FS
	Postclosure Plan									
1	183-H Solar Evaporation Basins	4	BHI	100	TS	06/30/97	0	Part 6, Chapter 2		PC
	Preclosure Work Plan									
1	B Plant Complex	8	BHI	200E	TS	02/27/98	0			TPA/8
2	PUREX Plant	9	BHI	200E	TS	06/30/95	0			TPA/8
	None To Date									
1	204-AR Waste Unloading Station	5	CHG	200E	T					Pln FS
2	207-A South Retention Basin	2	FH	200E	S					Other
3	216-A-10 Crib	3	BHI	200E	D					TBC
4	216-A-29 Ditch	3	BHI	200E	TD					TBC
5	216-A-36B Crib	1	BHI	200W	D					TBC
6	216-A-37-1 Crib	2	BHI	200E	D					TBC
7	216-B-3 Main Pond	6	BHI	200E	TD					TBC
8	216-B-63 Trench	5	BHI	200E	TD					TBC
9	216-S-10 Pond and Ditch	3	BHI	200W	D					TBC
10	216-U-12 Crib	3	BHI	200W	D					TBC
11	[redacted]	3	FH	200W	T				[redacted]	[redacted]
12	241-CX Tank System	3	BHI	200E	S					Other
13	[redacted]	1	FH	200W	S				[redacted]	[redacted]
14	303-M Oxide Facility	1	FH	300	T					TBC
15	[redacted]	3	PNNL	300	T				[redacted]	[redacted]
16	[redacted]	0	PNNL	300	S				[redacted]	[redacted]
17	437 Maintenance and Storage Facility	3	FH	400	T					ProcC
18	600 Area Purgewater Storage and Treatment Facility	3	BHI	600	TS					Other
19	[redacted]	0	PNNL	300	T				12/10/99	ProcC
20	HLW Interim Storage Unit	0	FH	200E	S					Pln FS
21	[redacted]	1	PNNL	300	TS				6/13/99	ProcC
22	Plutonium Finishing Plant Treatment Unit	1	FH	200W	T					Other
23	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400	TS					Other
24	Thermal Treatment Test Facilities	0	PNNL	300	T				5/13/99	ProcC
25	Waste Encapsulation and Storage Facility	2	FH	200E	S					Other

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

Rev. date: Jan 8 2002 9:24AM

2.4.3 - Hanford Facility Treatment, Storage, and/or Disposal Units - Unit Type Report *

	Part A, Form 3	Rev	Co-op [1] /MSC	Area [2]	Submitted Document Type	Submitted Document Dated	Submitted Document Rev	Location in HF RCRA Permit	Date Closed	One Page Location
1	PUREX Storage Tunnels	5A	FH	200E	Part B	04/14/97	4	Part 3, Chapter 3		FS
	Disposal (D)									
1	[redacted]	2	Other	200E	Closure Plan	07/01/94	2A	Part 5, Chapter 7	10/26/95	CC
2	1325-N Liquid Waste Disposal Facility	7	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 16		UC
3	1301-N Liquid Waste Disposal Facility	7	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 17		UC
4	300 Area Process Trenches	4	BHI	300	Closure Plan	05/25/95	4	Part 6, Chapter 1		PC
5	216-A-10 Crib	3	BHI	200E						TBC
6	216-A-36B Crib	1	BHI	200W						TBC
7	216-A-37-1 Crib	2	BHI	200E						TBC
8	216-S-10 Pond and Ditch	3	BHI	200W						TBC
9	216-U-12 Crib	3	BHI	200W						TBC
10	Nonradioactive Dangerous Waste Landfill	4	BHI	600	Closure Plan	09/30/90	0			TBC
	Storage (S)									
1	[redacted] Dangerous Waste Storage Facility	7	FH	600	Part B	10/31/91	2	Part 3, Chapter 1	09/05/01	FS
2	305-B Storage Facility	1	PNNL	300	Part B	04/30/92	2	Part 3, Chapter 2		FS
3	[redacted]	2	Other	200W	Closure Plan	10/07/92	3A	Part 5, Chapter 3	09/27/96	CC
4	[redacted] Storage Facility	3	FH	400	Closure Plan	09/30/95	1	Part 5, Chapter 12	04/14/97	CC
5	303-K Storage Facility	5	FH	300	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
6	207-A South Retention Basin	2	FH	200E						Other
7	224-T Transuranic Waste Storage and Assay Facility	6	FH	200W	Part B	06/30/92	0			TPA/6
8	241-CX Tank System	3	BHI	200E						Other
9	[redacted] Storage Building	1	FH	200W					02/22/00	Other
10	[redacted]	0	PNNL	300					4/21/97	Other
11	HLW Interim Storage Unit	0	FH	200E						Pln FS
12	Waste Encapsulation and Storage Facility	2	FH	200E						Other
	Storage and Disposal (SD)									
1	Low-Level Burial Grounds	9	FH	200EW	Part B	07/31/97	1			Pln FS
	Treatment (T)									
1	[redacted]	4	Other	200E	Closure Plan	10/21/94	1	Part 5, Chapter 6	10/26/95	CC
2	[redacted]	4	Other	200W	Closure Plan	10/06/94	1	Part 5, Chapter 8	11/08/95	CC
3	[redacted]	4	Other	600	Closure Plan	12/15/94	1	Part 5, Chapter 9	09/26/96	CC
4	1324-N Surface Impoundment	3	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 18		UC
5	204-AR Waste Unloading Station	5	CHG	200E						Pln FS
6	[redacted]	3	FH	200W					02/22/00	Other
7	303-M Oxide Facility	1	FH	300						TBC
8	[redacted]	3	PNNL	300					09/26/97	Other
9	437 Maintenance and Storage Facility	3	FH	400						ProcC
10	[redacted] Test Facilities	0	PNNL	300					12/10/99	Other
11	Plutonium Finishing Plant Treatment Unit	1	FH	200W						Other
12	[redacted] Test Facilities	0	PNNL	300					5/13/98	Other
	Treatment and Disposal (TD)									
1	[redacted] Ponds	0	Other	200E	Closure Plan	10/31/94	2	Part 5, Chapter 5	09/27/96	CC
2	[redacted]	4	BHI	100	Closure Plan	03/31/96	2	Part 5, Chapter 15	09/26/96	CC
3	1324-NA Percolation Pond	3	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 19		UC
4	216-A-29 Ditch	3	BHI	200E						TBC
5	216-B-3 Main Pond	6	BHI	200E						TBC
6	216-B-63 Trench	5	BHI	200E						TBC
	Treatment and Storage (TS)									
1	200 Area Effluent Treatment Facility	3	FH	200E	Part B	07/01/97	0	Part 3, Chapter 4		FS
2	Liquid Effluent Retention Facility	6	FH	200E	Part B	07/01/97	0	Part 3, Chapter 4		FS
3	242-A Evaporator	7	FH	200E	Part B	07/01/97	1	Part 3, Chapter 5		FS
4	325 Hazardous Waste Treatment Units	4A	PNNL	300	Part B	06/30/97	1	Part 3, Chapter 6		FS
5	[redacted]	4	Other	300	Closure Plan	09/27/96	2B	Part 5, Chapter 4	10/26/95	CC
6	[redacted] Treatment Storage	2	PNNL	3000	Closure Plan	11/07/94	1A	Part 5, Chapter 7	09/26/96	CC
7	[redacted]	4	BHI	100	Closure Plan	03/01/96	2	Part 5, Chapter 10	09/27/96	CC
8	[redacted]	4	Other	300	Closure Plan	11/30/95	2	Part 5, Chapter 11	10/26/95	CC
9	[redacted] Waste Service Area	4	FH	300	Closure Plan	11/20/95	2	Part 5, Chapter 13	09/26/96	CC
10	183-H Solar Evaporation Basins	4	BHI	100	Postclosure Plan	06/30/97	0	Part 6, Chapter 2		PC
11	1706-KE Waste Treatment System	3	FH	100	Closure Plan	07/08/99	0			TBC
12	222-S Laboratory Complex	9	FH	200W	Part B	12/21/91	0			Pln FS
13	241-Z Treatment and Storage Tanks	6	FH	200W	Closure Plan	12/31/96	0			TPA/6
14	300 Area Waste Acid Treatment System	5	FH	300	Closure Plan	03/31/96	1			TBC
15	600 Area Purgewater Storage and Treatment Facility	3	BHI	600						Other
16	B Plant Complex	8	BHI	200E	Preclosure Work Plan	02/27/98	0			TPA/6
17	Central Waste Complex	4	FH	200W	Part B	05/22/98	1			Pln FS
18	Double-Shell Tank System	9	CHG	200EW	Part B	08/28/91	0			Pln FS
19	Hanford Waste Vitrification Plant	6	DOE	200E	Part B	10/31/91	2			Pln FS
20	Hexone Storage and Treatment Facility	3	BHI	200W	Closure Plan	11/24/92	0			TBC
21	[redacted] and Chemical Treatment Test Facilities	1	PNNL	300					5/13/98	Other
22	PUREX Plant	9	BHI	200E	Preclosure Work Plan	06/30/95	0			TPA/6
23	Single-Shell Tank System	7	CHG	200EW	Closure Work Plan	06/30/95	0			Pln FS
24	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400						Other
25	T Plant Complex	8	FH	200W	Part B	12/19/95	0			Pln FS
26	Waste Receiving and Processing Facility	1	FH	200W	Part B	05/22/98	1			Pln FS
	Treatment, Storage, and Disposal (TSD)									
1	Grout Treatment Facility	6	CHG	200E	Part B	07/24/92	2			TBC

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

Rev. date: Jan 8 2002 9:24AM

2.4.4 - Hanford Facility Treatment, Storage, and/or Disposal Units - Co-Op Report *

	Part A, Form 3	Rev	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Submitted Document Dated	Submitted Document Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	BHI									
1	[redacted]	4	100	TS	Closure Plan	03/01/95	2	Part 5, Chapter 10	Partial	CC
2	[redacted]	4	100	TD	Closure Plan	03/31/95	2	Part 5, Chapter 15	06/09/99	CC
3	1325-N Liquid Waste Disposal Facility	7	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 16		UC
4	1301-N Liquid Waste Disposal Facility	7	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 17		UC
5	1324-N Surface Impoundment	3	100	T	Closure Plan	05/01/96	0	Part 5, Chapter 18		UC
6	1324-NA Percolation Pond	3	100	TD	Closure Plan	05/01/96	0	Part 5, Chapter 19		UC
7	300 Area Process Trenches	4	300	D	Closure Plan	05/25/95	4	Part 6, Chapter 1		PC
8	183-H Solar Evaporation Basins	4	100	TS	Postclosure Plan	06/30/97	0	Part 6, Chapter 2		PC
9	216-A-10 Crib	3	200E	D						TBC
10	216-A-29 Ditch	3	200E	TD						TBC
11	216-A-36B Crib	1	200W	D						TBC
12	216-A-37-1 Crib	2	200E	D						TBC
13	216-B-3 Main Pond	6	200E	TD						TBC
14	216-B-63 Trench	5	200E	TD						TBC
15	216-S-10 Pond and Ditch	3	200W	D						TBC
16	216-U-12 Crib	3	200W	D						TBC
17	241-CX Tank System	3	200E	S						Other
18	600 Area Purgewater Storage and Treatment Facility	3	600	TS						Other
19	B Plant Complex	8	200E	TS	Preclosure Work Plan	02/27/98	0			TPA/8
20	Hexone Storage and Treatment Facility	3	200W	TS	Closure Plan	11/24/92	0			TBC
21	Nonradioactive Dangerous Waste Landfill	4	600	D	Closure Plan	09/30/90	0			TBC
22	PUREX Plant	9	200E	TS	Preclosure Work Plan	06/30/95	0			TPA/8
	CHG									
1	204-AR Waste Unloading Station	5	200E	T						Pln FS
2	Double-Shell Tank System	9	200EW	TS	Part B	06/28/91	0			Pln FS
3	Grout Treatment Facility	6	200E	TSD	Part B	07/24/92	2			TBC
4	Single-Shell Tank System	7	200EW	TS	Closure Work Plan	06/30/95	0			Pln FS
	DOE									
1	Hanford Waste Vitrification Plant	5	200E	TS	Part B	10/31/91	2			Pln FS
	FH									
1	[redacted]	7	600	S	Part B	10/31/91	2	Part 3, Chapter 3	09/2001	FS
2	PUREX Storage Tunnels	5A	200E		Part B	04/14/97	4	Part 3, Chapter 3		FS
3	200 Area Effluent Treatment Facility	3	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
4	Liquid Effluent Retention Facility	6	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
5	242-A Evaporator	7	200E	TS	Part B	07/01/97	1	Part 3, Chapter 5		FS
6	[redacted]	3	400	S	Closure Plan	09/30/95	1	Part 5, Chapter 12	6/14/99	CC
7	[redacted]	4	300	TS	Closure Plan	11/20/95	2	Part 5, Chapter 13	09/2001	CC
8	303-K Storage Facility	5	300	S	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
9	1706-KE Waste Treatment System	3	100	TS	Closure Plan	07/08/99	0			TBC
10	207-A South Retention Basin	2	200E	S						Other
11	[redacted]	3	200W	T					09/2001	Other
12	222-S Laboratory Complex	9	200W	TS	Part B	12/21/91	0			Pln FS
13	224-T Transuranic Waste Storage and Assay Facility	6	200W	S	Part B	06/30/92	0			TPA/8
14	241-Z Treatment and Storage Tanks	6	200W	TS	Closure Plan	12/31/96	0			TPA/8
15	[redacted]	1	200W	S					09/2001	Other
16	300 Area Waste Acid Treatment System	5	300	TS	Closure Plan	03/31/96	1			TBC
17	303-M Oxide Facility	1	300	T						TBC
18	437 Maintenance and Storage Facility	3	400	T						ProcC
19	Central Waste Complex	4	200W	TS	Part B	05/22/98	1			Pln FS
20	HLW Interim Storage Unit	0	200E	S						Pln FS
21	Low-Level Burial Grounds	9	200EW	SD	Part B	07/31/97	1			Pln FS
22	Plutonium Finishing Plant Treatment Unit	1	200W	T						Other
23	Sodium Storage Facility and Sodium Reaction Facility	1	400	TS						Other
24	T Plant Complex	8	200W	TS	Part B	12/19/95	0			Pln FS
25	Waste Encapsulation and Storage Facility	2	200E	S						Other
26	Waste Receiving and Processing Facility	1	200W	TS	Part B	05/22/98	1			Pln FS
	PNNL									
1	305-B Storage Facility	1	300	S	Part B	04/30/92	2	Part 3, Chapter 2		FS
2	325 Hazardous Waste Treatment Units	4A	300	TS	Part B	06/30/97	1	Part 3, Chapter 6		FS
3	[redacted]	2	3000	TS	Closure Plan	11/07/94	6A	Part 5, Chapter 4		CC
4	[redacted]	3	300	T						CC
5	[redacted]	0	300	S						CC
6	[redacted]	0	300	T						CC
7	[redacted]	1	300	TS						CC
8	[redacted]	0	300	T						CC
	Other									
1	[redacted]	4	300	TS	Closure Plan	09/24/92	3B	Part 5, Chapter 5		CC
2	[redacted]	2	200W	S	Closure Plan	10/07/92	3A	Part 5, Chapter 7		CC
3	[redacted]	4	200E	T	Closure Plan	10/21/94	1	Part 5, Chapter 8		CC
4	[redacted]	4	200W	T	Closure Plan	10/05/94	1	Part 5, Chapter 9		CC
5	[redacted]	2	200E	D	Closure Plan	07/01/94	2A	Part 5, Chapter 20		CC
6	[redacted]	0	200E	TD	Closure Plan	10/31/94	2	Part 5, Chapter 21		CC
7	[redacted]	4	600	T	Closure Plan	12/15/94	1	Part 5, Chapter 6	10/2000	CC
8	304 Concretion Facility	4	300	TS	Closure Plan	11/30/93	2	Part 5, Chapter 11	01/2000	CC

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

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2.4.5 - Hanford Facility Treatment, Storage, and/or Disposal Units - Area Report *

	Part A, Form 3	Rev	Co-op [1] /MSC	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Dated	Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	100									
1	[redacted] Sodium Fire Facility	4	BHI	TS	Closure Plan	03/01/95	2	Part 5, Chapter 10	Partial	CC
2	[redacted]	4	BHI	TD	Closure Plan	03/31/95	2	Part 5, Chapter 15	06/09/99	CC
3	1325-N Liquid Waste Disposal Facility	7	BHI	D	Closure Plan	05/01/96	0	Part 5, Chapter 16		UC
4	1301-N Liquid Waste Disposal Facility	7	BHI	D	Closure Plan	05/01/96	0	Part 5, Chapter 17		UC
5	1324-N Surface Impoundment	3	BHI	T	Closure Plan	05/01/96	0	Part 5, Chapter 18		UC
6	1324-NA Percolation Pond	3	BHI	TD	Closure Plan	05/01/96	0	Part 5, Chapter 19		UC
7	183-H Solar Evaporation Basins	4	BHI	TS	Postclosure Plan	06/30/97	0	Part 6, Chapter 2		PC
8	1706-KE Waste Treatment System	3	FH	TS	Closure Plan	07/08/99	0			TBC
	200E									
1	PUREX Storage Tunnels	5A	FH		Part B	04/14/97	4	Part 3, Chapter 3		FS
2	200 Area Effluent Treatment Facility	3	FH	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
3	Liquid Effluent Retention Facility	6	FH	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
4	242-A Evaporator	7	FH	TS	Part B	07/01/97	1	Part 3, Chapter 5		FS
5	[redacted] Demolition Site	4	Other	T	Closure Plan	10/21/94	1	Part 5, Chapter 5	10/28/96	CC
6	[redacted]	2	Other	D	Closure Plan	07/01/94	2A	Part 5, Chapter 7	10/28/96	CC
7	[redacted] Ponds	0	Other	TD	Closure Plan	10/31/94	2	Part 5, Chapter 8	06/27/99	CC
8	204-AR Waste Unloading Station	5	CHG	T						Pln FS
9	207-A South Retention Basin	2	FH	S						Other
10	216-A-10 Crib	3	BHI	D						TBC
11	216-A-29 Ditch	3	BHI	TD						TBC
12	216-A-37-1 Crib	2	BHI	D						TBC
13	216-B-3 Main Pond	6	BHI	TD						TBC
14	216-B-63 Trench	5	BHI	TD						TBC
15	241-CX Tank System	3	BHI	S						Other
16	B Plant Complex	8	BHI	TS	Preclosure Work Plan	02/27/96	0			TPA/8
17	Grout Treatment Facility	6	CHG	TSD	Part B	07/24/92	2			TBC
18	Hanford Waste Vitrification Plant	6	DOE	TS	Part B	10/31/91	2			Pln FS
19	HLW Interim Storage Unit	0	FH	S						Pln FS
20	PUREX Plant	9	BHI	TS	Preclosure Work Plan	06/30/95	0			TPA/8
21	Waste Encapsulation and Storage Facility	2	FH	S						Other
	200EW									
1	Double-Shell Tank System	9	CHG	TS	Part B	08/28/91	0			Pln FS
2	Low-Level Burial Grounds	9	FH	SD	Part B	07/31/97	1			Pln FS
3	Single-Shell Tank System	7	CHG	TS	Closure Work Plan	06/30/95	0			Pln FS
	200W									
1	[redacted]	2	Other	S	Closure Plan	10/07/92	3A	Part 5, Chapter 3	09/27/96	CC
2	[redacted] Pit Demolition Site	4	Other	T	Closure Plan	10/06/94	1	Part 5, Chapter 6	10/28/96	CC
3	216-A-36B Crib	1	BHI	D						TBC
4	216-S-10 Pond and Ditch	3	BHI	D						TBC
5	216-U-12 Crib	3	BHI	D						TBC
6	[redacted]	3	FH	T					09/27/96	CC
7	222-S Laboratory Complex	9	FH	TS	Part B	12/21/91	0			Pln FS
8	224-T Transuranic Waste Storage and Assay Facility	6	FH	S	Part B	06/30/92	0			TPA/8
9	241-Z Treatment and Storage Tanks	6	FH	TS	Closure Plan	12/31/96	0			TPA/8
10	[redacted] Storage Building	1	FH	S					07/27/96	CC
11	Central Waste Complex	4	FH	TS	Part B	06/22/96	1			Pln FS
12	Hexone Storage and Treatment Facility	3	BHI	TS	Closure Plan	11/24/92	0			TBC
13	Plutonium Finishing Plant Treatment Unit	1	FH	T						Other
14	T Plant Complex	8	FH	TS	Part B	12/19/95	0			Pln FS
15	Waste Receiving and Processing Facility	1	FH	TS	Part B	05/22/96	1			Pln FS
	300									
1	305-B Storage Facility	1	PNNL	S	Part B	04/30/92	2	Part 3, Chapter 2		FS
2	325 Hazardous Waste Treatment Units	4A	PNNL	TS	Part B	06/30/97	1	Part 3, Chapter 6		FS
3	[redacted]	4	Other	TS	Closure Plan	09/24/92	3A	Part 5, Chapter 1	09/27/96	CC
4	[redacted]	4	Other	TS	Closure Plan	11/30/95	2	Part 5, Chapter 2	09/27/96	CC
5	[redacted] and Burning Area	4	FH	TS	Closure Plan	11/30/95	2	Part 5, Chapter 11	09/27/96	CC
6	303-K Storage Facility	5	FH	S	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
7	300 Area Process Trenches	4	BHI	D	Closure Plan	05/25/95	4	Part 6, Chapter 1		PC
8	300 Area Waste Acid Treatment System	5	FH	TS	Closure Plan	03/31/96	1			TBC
9	303-M Oxide Facility	1	FH	T						TBC
10	[redacted]	3	PNNL	T						CC
11	[redacted]	0	PNNL	S						CC
12	[redacted]	0	PNNL	T						CC
13	[redacted] Cell / Caisson	1	PNNL	TS						CC
14	[redacted]	0	PNNL	T						CC
	400									
1	[redacted] Storage Facility	3	FH	S	Closure Plan	09/30/95	1	Part 5, Chapter 12	04/04/97	CC
2	437 Maintenance and Storage Facility	3	FH	T						ProcC
3	Sodium Storage Facility and Sodium Reaction Facility	1	FH	TS						Other
	600									
1	[redacted] Dangerous Waste Storage Facility	7	FH	S	Part B	10/31/91	2	Part 3, Chapter 1	09/26/91	S
2	[redacted]	4	Other	T	Closure Plan	12/15/94	1	Part 5, Chapter 9	07/29/96	CC
3	600 Area Purgewater Storage and Treatment Facility	3	BHI	TS						Other
4	Nonradioactive Dangerous Waste Landfill	4	BHI	D	Closure Plan	09/30/90	0			TBC
	3000									
1	Simulated High-Level Waste Slurry Treatment /Storage	2	PNNL	TS	Closure Plan	11/07/94	6A	Part 5, Chapter 4	09/06/95	CC

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

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2.4.6 - Hanford Facility Treatment, Storage, and/or Disposal Units - HF RCRA Permit Location Report *

	Part A, Form 3	Rev	Co-op [1] /M&C	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Submitted Document Dated	Submitted Document Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	PART 3										
1	[redacted] Dangerous Waste Storage Facility	7	FH	600	S	Part B	10/31/91	2	Part 3, Chapter 1	09/05/01	FS
2	305-B Storage Facility	1	PNNL	300	S	Part B	04/30/92	2	Part 3, Chapter 2		FS
3	PUREX Storage Tunnels	5A	FH	200E		Part B	04/14/97	4	Part 3, Chapter 3		FS
4	200 Area Effluent Treatment Facility	3	FH	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
5	Liquid Effluent Retention Facility	6	FH	200E	TS	Part B	07/01/97	0	Part 3, Chapter 4		FS
6	242-A Evaporator	7	FH	200E	TS	Part B	07/01/97	1	Part 3, Chapter 5		FS
7	325 Hazardous Waste Treatment Units	4A	PNNL	300	TS	Part B	06/30/97	1	Part 3, Chapter 6		FS
	PART 5										
1	[redacted] Evaporator	4	Other	300	TS	Closure Plan	09/24/92	0	[redacted]	[redacted]	CC
2	[redacted]	2	Other	200W	S	Closure Plan	10/07/93	3A	[redacted]	[redacted]	CC
3	[redacted] Slurry Treatment /Storage	2	PNNL	3000	TS	Closure Plan	11/07/94	4A	[redacted]	[redacted]	CC
4	[redacted]	4	Other	200E	T	Closure Plan	10/21/94	1	[redacted]	[redacted]	CC
5	[redacted] Demolition Site	4	Other	200W	T	Closure Plan	10/06/94	1	[redacted]	[redacted]	CC
6	[redacted]	2	Other	200E	D	Closure Plan	07/01/94	0	[redacted]	[redacted]	CC
7	[redacted] Ponds	9	Other	200E	TD	Closure Plan	10/31/94	1	[redacted]	[redacted]	CC
8	[redacted] Demolition Sites	4	Other	600	T	Closure Plan	12/15/94	1	[redacted]	[redacted]	CC
9	[redacted] Test Facility	4	BHI	100	TS	Closure Plan	03/01/95	1	[redacted]	[redacted]	CC
10	[redacted]	4	Other	300	TS	Closure Plan	11/30/95	2	[redacted]	[redacted]	CC
11	[redacted] Storage Facility	3	FH	400	S	Closure Plan	09/22/95	1	[redacted]	[redacted]	CC
12	[redacted] Treatment and Storage Area	4	FH	300	TS	Closure Plan	11/20/96	2	[redacted]	[redacted]	CC
13	303-K Storage Facility	5	FH	300	S	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
14	[redacted]	4	BHI	100	TD	Closure Plan	03/31/98	2	Part 5, Chapter 15	06/09/99	CC
15	1325-N Liquid Waste Disposal Facility	7	BHI	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 16		UC
16	1301-N Liquid Waste Disposal Facility	7	BHI	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 17		UC
17	1324-N Surface Impoundment	3	BHI	100	T	Closure Plan	05/01/96	0	Part 5, Chapter 18		UC
18	1324-NA Percolation Pond	3	BHI	100	TD	Closure Plan	05/01/96	0	Part 5, Chapter 19		UC
	PART 6										
1	300 Area Process Trenches	4	BHI	300	D	Closure Plan	05/25/95	4	Part 6, Chapter 1		PC
2	183-H Solar Evaporation Basins	4	BHI	100	TS	Postclosure Plan	06/30/97	0	Part 6, Chapter 2		PC
	Not In HF RCRA Permit										
1	1706-KE Waste Treatment System	3	FH	100	TS	Closure Plan	07/08/99	0			TBC
2	204-AR Waste Unloading Station	5	CHG	200E	T						Pln FS
3	207-A South Retention Basin	2	FH	200E	S						Other
4	216-A-10 Crib	3	BHI	200E	D						TBC
5	216-A-29 Ditch	3	BHI	200E	TD						TBC
6	216-A-36B Crib	1	BHI	200W	D						TBC
7	216-A-37-1 Crib	2	BHI	200E	D						TBC
8	216-B-3 Main Pond	6	BHI	200E	TD						TBC
9	216-B-63 Trench	5	BHI	200E	TD						TBC
10	216-S-10 Pond and Ditch	3	BHI	200W	D						TBC
11	216-U-12 Crib	3	BHI	200W	D						TBC
12	[redacted]	3	FH	200W	T					[redacted]	[redacted]
13	222-S Laboratory Complex	9	FH	200W	TS	Part B	12/21/91	0			Pln FS
14	224-T Transuranic Waste Storage and Assay Facility	6	FH	200W	S	Part B	06/30/92	0			TPA/8
15	241-CX Tank System	3	BHI	200E	S						Other
16	241-Z Treatment and Storage Tanks	6	FH	200W	TS	Closure Plan	12/31/96	0			TPA/8
17	[redacted] Storage Building	1	FH	200W	S					[redacted]	[redacted]
18	300 Area Waste Acid Treatment System	5	FH	300	TS	Closure Plan	03/31/96	1			TBC
19	303-M Oxide Facility	1	FH	300	T						TBC
20	[redacted]	3	PNNL	300	T					09/05/97	[redacted]
21	[redacted]	0	PNNL	300	S					4/21/97	[redacted]
22	437 Maintenance and Storage Facility	3	FH	400	T						ProcC
23	600 Area Purgewater Storage and Treatment Facility	3	BHI	600	TS						Other
24	9 Plant Complex	6	BHI	200E	TS	Preclosure Work Plan	02/27/96	0			TPA/8
25	[redacted] Treatment Test Facilities	0	PNNL	300	T					12/10/96	[redacted]
26	Central Waste Complex	4	FH	200W	TS	Part B	05/22/98	1			Pln FS
27	Double-Shell Tank System	9	CHG	200EW	TS	Part B	08/28/91	0			Pln FS
28	Grout Treatment Facility	6	CHG	200E	TSD	Part B	07/24/92	2			TBC
29	Hanford Waste Vitrification Plant	6	DOE	200E	TS	Part B	10/31/91	2			Pln FS
30	Hexone Storage and Treatment Facility	3	BHI	200W	TS	Closure Plan	11/24/92	0			TBC
31	HLW Interim Storage Unit	0	FH	200E	S						Pln FS
32	Low-Level Burial Grounds	9	FH	200EW	SD	Part B	07/31/97	1			Pln FS
33	Nonradioactive Dangerous Waste Landfill	4	BHI	600	D	Closure Plan	09/30/90	0			TBC
34	[redacted] Treatment Test Facilities	1	PNNL	300	TS					6/13/96	[redacted]
35	Plutonium Finishing Plant Treatment Unit	1	FH	200W	T						Other
36	PUREX Plant	9	BHI	200E	TS	Preclosure Work Plan	06/30/95	0			TPA/8
37	Single-Shell Tank System	7	CHG	200EW	TS	Closure Work Plan	06/30/95	0			Pln FS
38	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400	TS						Other
39	T Plant Complex	8	FH	200W	TS	Part B	12/19/95	0			Pln FS
40	[redacted] Treatment Test Facilities	0	PNNL	300	T					6/13/96	[redacted]
41	Waste Encapsulation and Storage Facility	2	FH	200E	S						Other
42	Waste Receiving and Processing Facility	1	FH	200W	TS	Part B	05/22/98	1			Pln FS

* Information derived from the Part A Manual (DOE/RL 88-21), Revision 24, Section 2.0 and HF RCRA Permit (WA 7890008967), Revision 5, Contents, and subsequent written communications from Ecology.

Rev. date: Jan 8 2002 9:24AM

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

DISCLAIMER

This information has been formatted to be Internet viewable and is a facsimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

DOE/RL-88-21
Single-Shell Tank System
Rev. 7, 10/29/01

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/STATE I.D. NUMBER
		WA7890008967

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS
		Denied 12/07/01

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

*"FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED *(use the boxes to the left)*
"The date construction of the Hanford Facility commenced.

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT ☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES

[redacted]

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
[redacted]					
		LITERS PER DAY	V		
		TONS PER HOUR	D		
		METRIC TONS PER HOUR	W		
CUBIC METERS	C	GALLONS PER HOUR	E		
GALLONS PER DAY	U	LITERS PER HOUR	H	HECTARES	Q

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY			
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*				
1	S02	348,390,160	L				
2	T01	2,271,240	V				
3	S03	0.11	C				
4							
5							
6							
7							
8							
9							
10							

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

For Facility Drawings, refer to the attached site plan drawings
S02, T01

The Single-Shell Tank (SST) System consists of 149 tanks that were built between the years 1943 and 1964 to store mixed waste (S02) generated on the Hanford Site. There are two types of tanks in the SST System, the 100 series and the 200 series. The 133 100-series SSTs are 23 meters (75 feet) in diameter with operating capacities of 1,892,700 to 3,785,400 liters (500,000 to 1,000,000 gallons). The sixteen 200-series SSTs are smaller and of a similar design with a 6 meter (20 foot) diameter and a capacity of 208,197 liters (55,000 gallons). The SST System also includes five waste transfer vault systems; 244-AR, 244-BXR, 244-CR, 244-TXR, and 244-UR Vaults. Each vault system contains four tanks of varying capacities.

Attachment 1 contains 10 tables; Table 1 lists tank numbers, year of construction, year removed from service, and operating capacity. Table 2 lists Waste Transfer Vaults, year of construction, year removed from service, and operating capacity. Table 3 lists Inactive Miscellaneous Underground Storage Tanks, year of construction, year removed from service, and operating capacity. Table 4 lists SST Diversion Boxes, and the year of construction. Table 5 lists the SST Valve Pits. Table 6 lists the SST Flush Pits. Table 7 lists the active 200 East and 200 West Area Transfer Lines. Table 8 lists the 200 East and 200 West Inactive Waste Transfer Lines. Table 9 lists the SST/DST interface points. Table 10 is a listing of SST System Facilities.

The maximum process design capacity for tank storage at the SST System is 348,390,160 liters (92,035,230 gallons).

Treatment of the mixed waste in the SST System occurs when: a) Solids and interstitial liquids are separated and/or cooling liquids are added (T01). These treatment processes involve, but are not limited to, mechanical retrieval, sluicing, and Saltwell pumping of the mixed waste; saltwell pumping may use hose-in-hose overground transfer lines instead of direct buried lines; or b) Ecology approves the introduction of retrieval liquids. These liquids may include the addition of double-shell tank waste for the purpose of dissolution and to facilitate SST retrieval operations. The SST System has a process design limit of 2,271,240 liters (600,000 gallons) per day based on the simultaneous pumping of two SSTs in a 24-hour period. Ancillary equipment used for the transfer of liquid mixed waste consists of: (1) centrifugal pumps capable of pumping liquid mixed waste at 1,514 liters (400 gallons) per minute, (2) induction pumps capable of pumping liquid waste from the salt well at 38 liters (10 gallons) per minute, and (3) associated valves and piping to the DST System. Mechanical equipment, sluicing equipment, and similar treatment/processes are not limited to the processes described previously.

The maximum process design capacity for tank treatment at the SST System is 2,271,240 liters (600,000 gallons) per day.

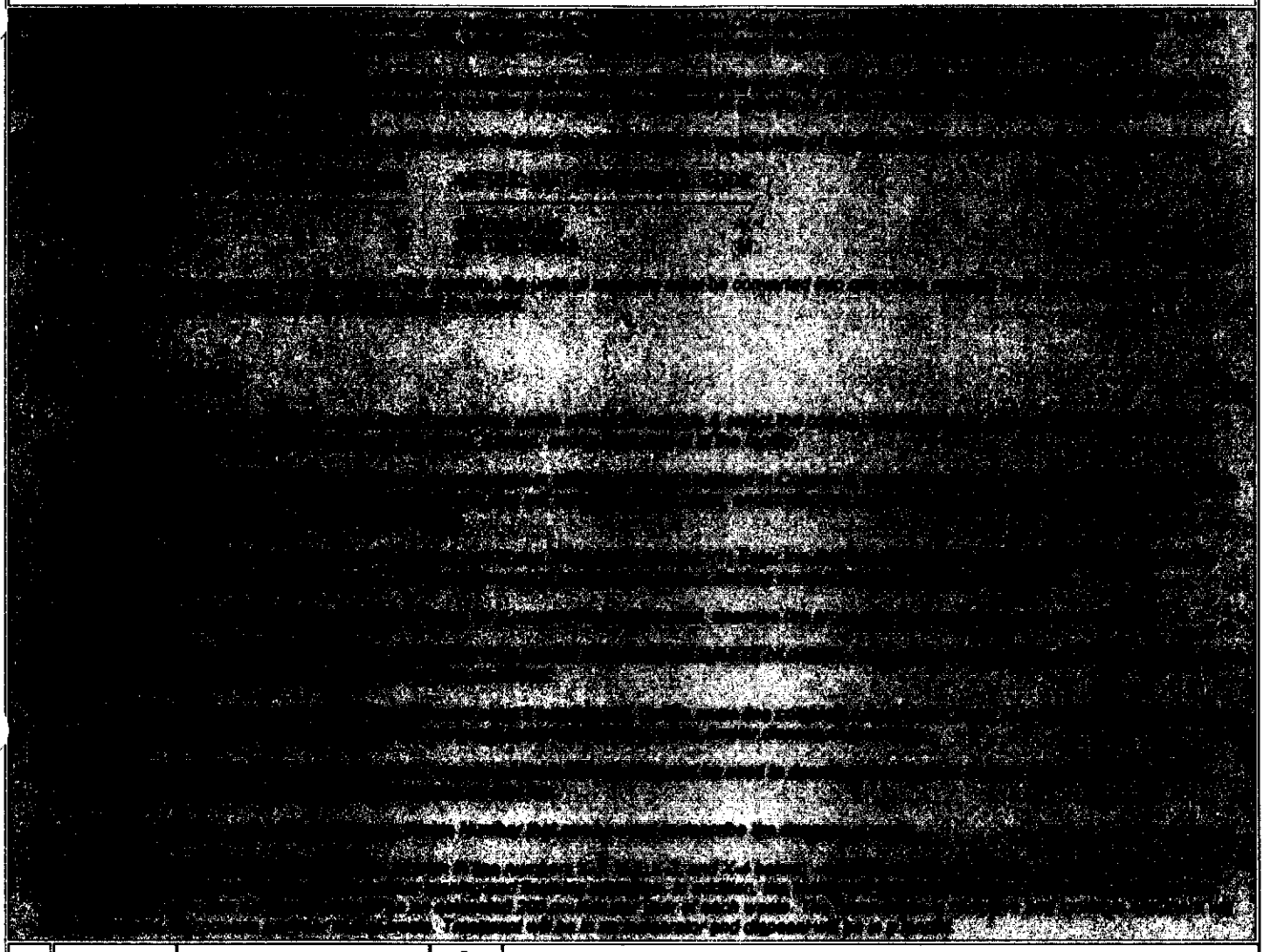
S03

Associated with the SST System are 54 inactive diversion boxes designated as waste piles (S03). A summary of the SST System and corresponding diversion boxes is provided in Table 4. All diversion boxes used within the SST System are inactive and presently are isolated (weather covered). "Isolated" as used here means exterior water intrusion has been restricted.

The maximum process design capacity for waste pile storage at the SST System is approximately 23 kilograms (50 pounds) of waste lead stored in each diversion box (worst-case scenario) accounting for a total of 1,202 kilograms (2,650 pounds) or 0.11 cubic meter (0.14 cubic yard) of waste lead in storage.

See Attachment 1 for detailed listing of tank systems.

IV. DESCRIPTION OF DANGEROUS WASTES



LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
[illegible]								
[illegible]								
[illegible]								
[illegible]								
1	D001	204,116,566	K	S02	T01			Storage-Tank/Treatment-Tank
2	D002		↓	↓	↓			↓
3	D003		↓	↓	↓			↓
4	D004		↓	↓	↓			↓
5	D005		↓	↓	↓			↓
6	D006		↓	↓	↓			↓
7	D007		↓	↓	↓			↓
8	D008		↓	↓	↓			↓
9	D009		↓	↓	↓			↓
10	D010		↓	↓	↓			↓
11	D011		↓	↓	↓			↓

13	D019		↓	↓	↓			↓
14	D022		↓	↓	↓			↓
15	D028		↓	↓	↓			↓
16	D029		↓	↓	↓			↓
17	D030		↓	↓	↓			↓
18	D033		↓	↓	↓			↓
19	D034		↓	↓	↓			↓
20	D035		↓	↓	↓			↓
21	D036		↓	↓	↓			↓
22	D038		↓	↓	↓			↓
23	D039		↓	↓	↓			↓
24	D040		↓	↓	↓			↓
25	D041		↓	↓	↓			↓
26	D043		↓	↓	↓			↓
27	WP01		↓	↓	↓			↓
28	WP02		↓	↓	↓			↓
29	WT01		↓	↓	↓			↓
30	WT02		↓	↓	↓			↓
31	F001		↓	↓	↓			↓
32	F002		↓	↓	↓			↓
33	F003		↓	↓	↓			↓
34	F004		↓	↓	↓			↓
35	F005		↓	↓	↓			Included With Above
36	D008	1,202	K	S03				Storage - Waste Pile
37								
38								
39								
40								

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

The mixed waste stored in the SST System was generated by four major chemical reprocessing operations: the bismuth phosphate (BiPo) process, the reduction-oxidation (REDOX) process, the plutonium-uranium extraction (PUREX) process, and the tributyl phosphate (TBP) process.

The dangerous waste numbers listed under the description of dangerous waste are based on a computer model and past process knowledge rather than on chemical analysis of waste. The Estimated Annual Quantity of Dangerous Waste (section IV.B.) listed is 204,116,556 kilograms (450,000,000 pounds)and is based on an average density of the waste calculated from the densities of 26 core samples taken of waste stored in the various SSTs. The average density (1.4 kilograms/liter [12 pounds/gallon]) was multiplied by 139,440,000 liters (36,836,000 gallons) and rounded-up to 204,116,556 kilograms (450,000,000 pounds). The figure 139,440,000 liters (36,836,000 gallons) represents the estimated volume of liquid mixed waste remaining in the SST System.

The quantity of waste lead stored in the diversion boxes is based on previous research of historical records. Because of the radiological hazards associated with individual inspection of the diversion boxes, a quantity of 23 kilograms (50 pounds) of waste lead was estimated for each box. This represents a conservative estimate, as 23 kilograms (50 pounds) is the maximum quantity of waste lead known to be in any one diversion box.

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U. S. Department of Energy Harry L. Boston, Manager U. S. Department of Energy		10/29/2001

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

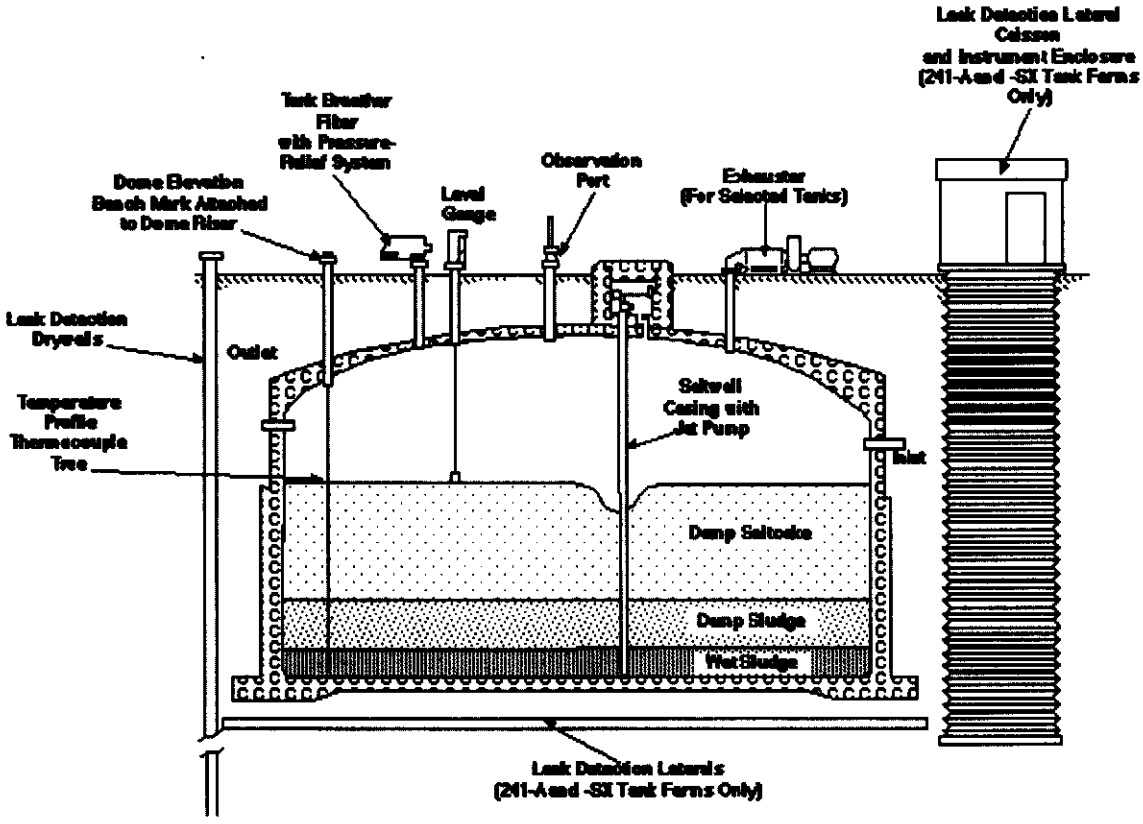
Keith A. Klein 10/29/01
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Date

Harry L. Boston 10/29/01
Owner/Operator
Harry L. Boston, Manager
U.S. Department of Energy
Date

Edward S. Aromi for 10/19/01
Co-Operator
M. P. DeLozier
President and RPP General Manager
CH2M HILL Hanford Group, Inc.*
Date

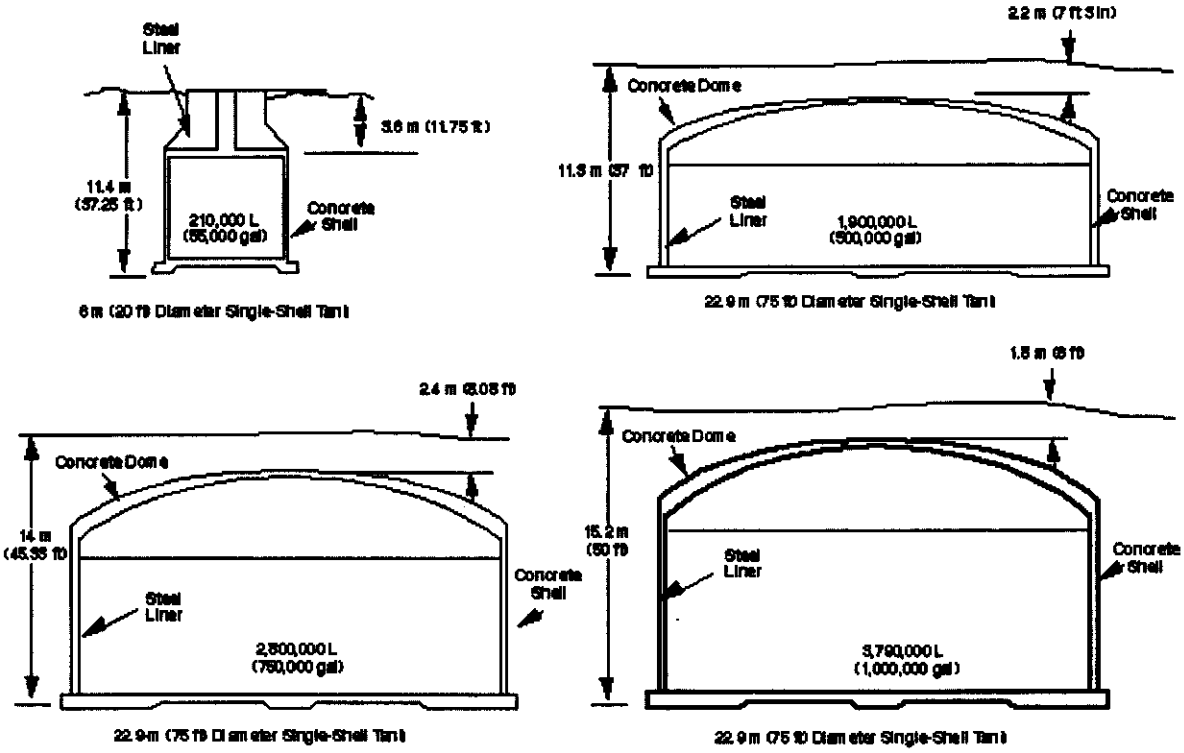
*Co-operator under Department of Energy Office of River Protection Contract #DE-AC27-99RL14047.

Typical Single-Shell Tank



G01060088-4-72

Cross-Sectional Views of Single-Shell Tanks



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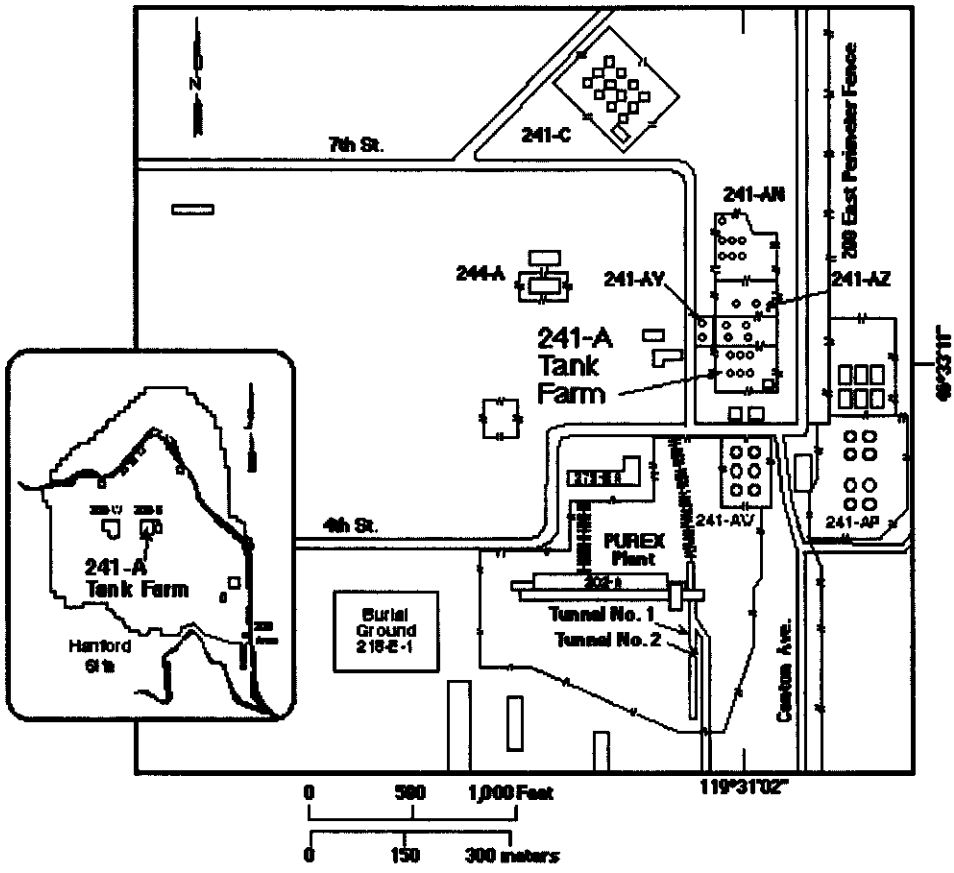
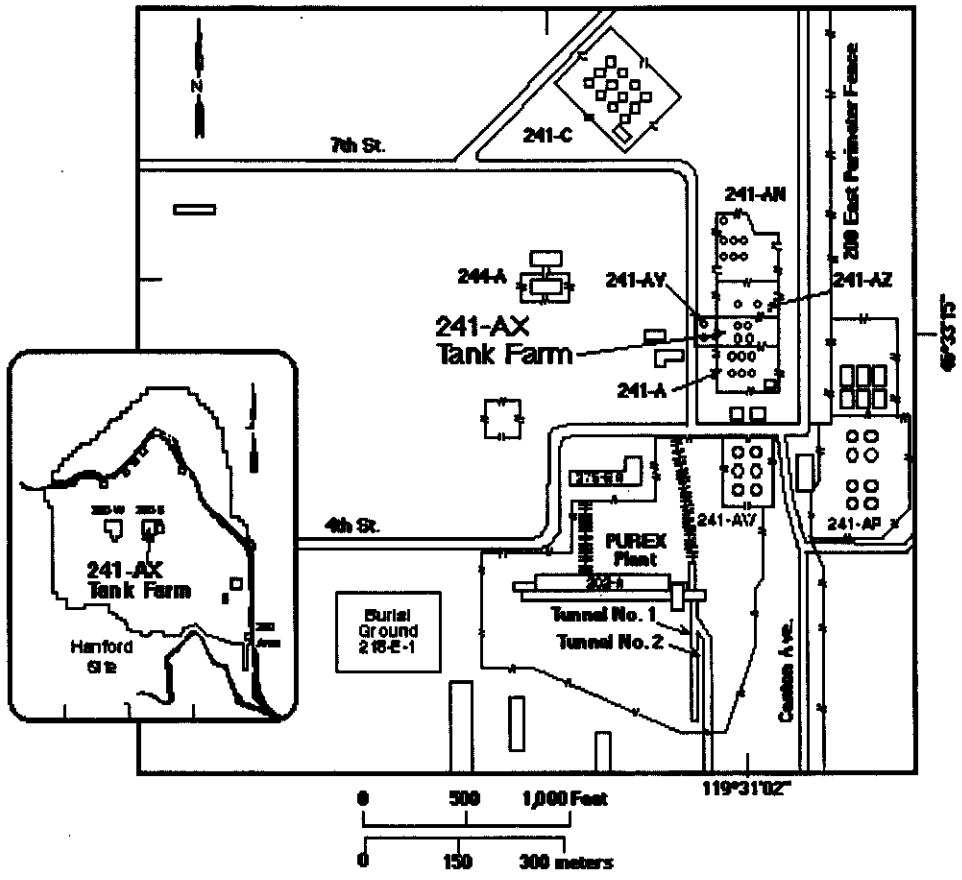
241-A Single-Shell Tank Farm Site Plan



G01060088-6-72

241-AX Single-Shell Tank Farm Site Plan



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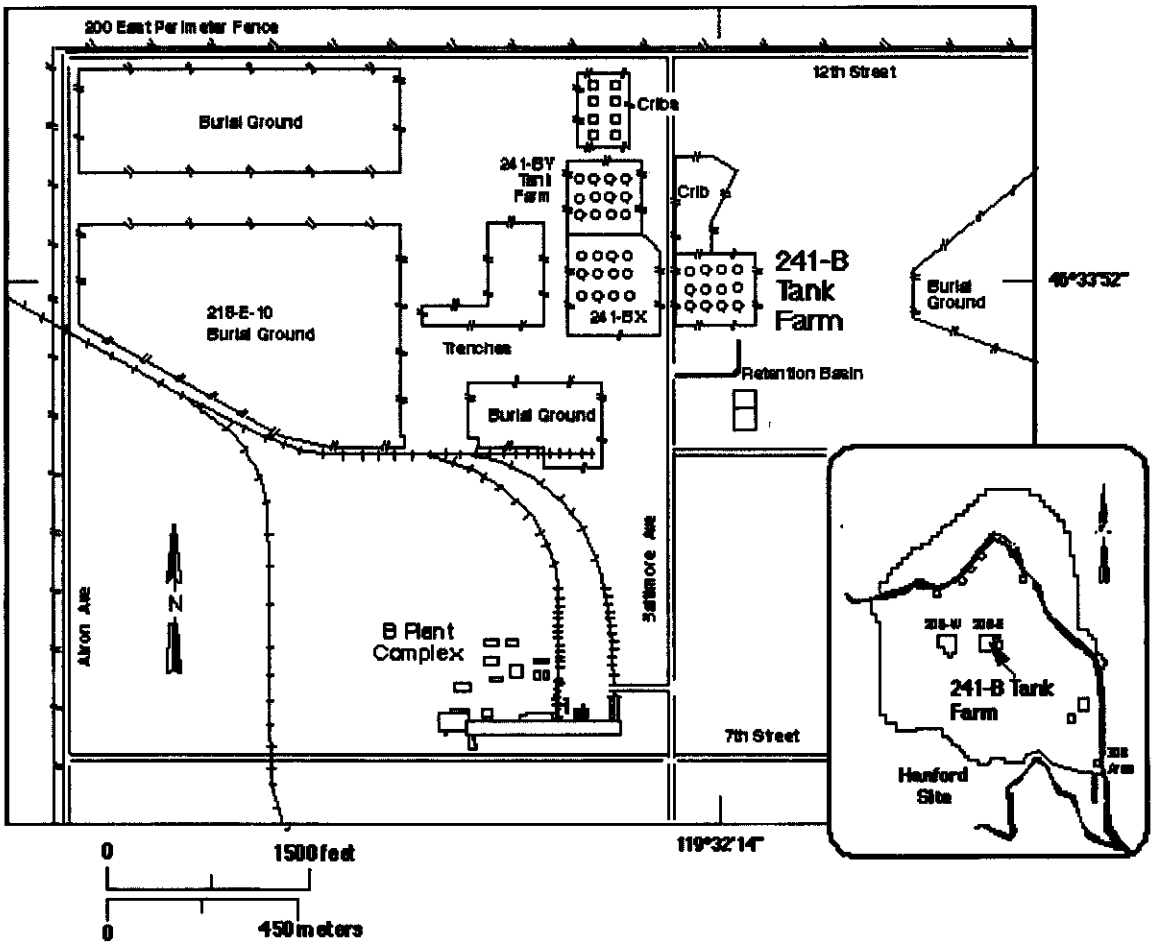
241-B Single-Shell Tank Farm Site Plan



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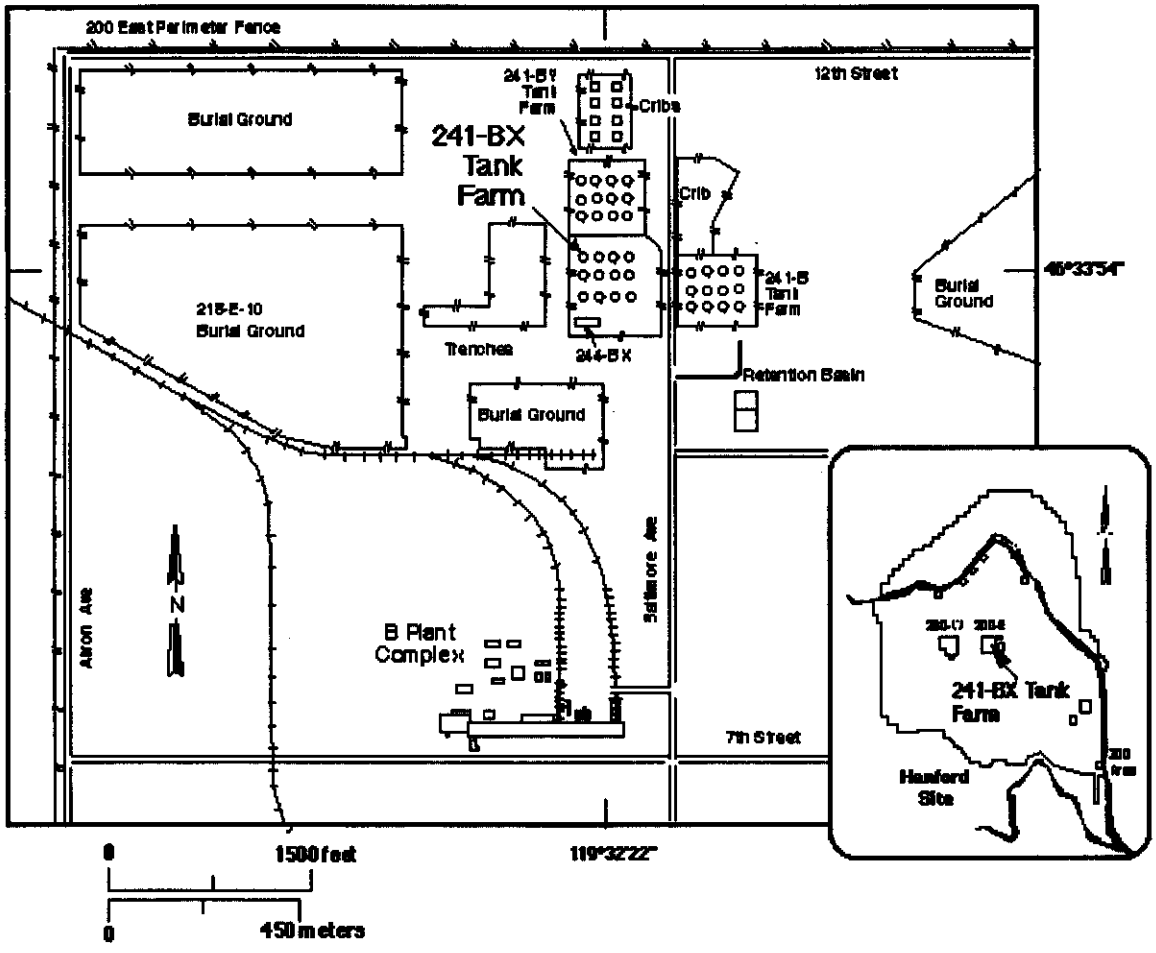
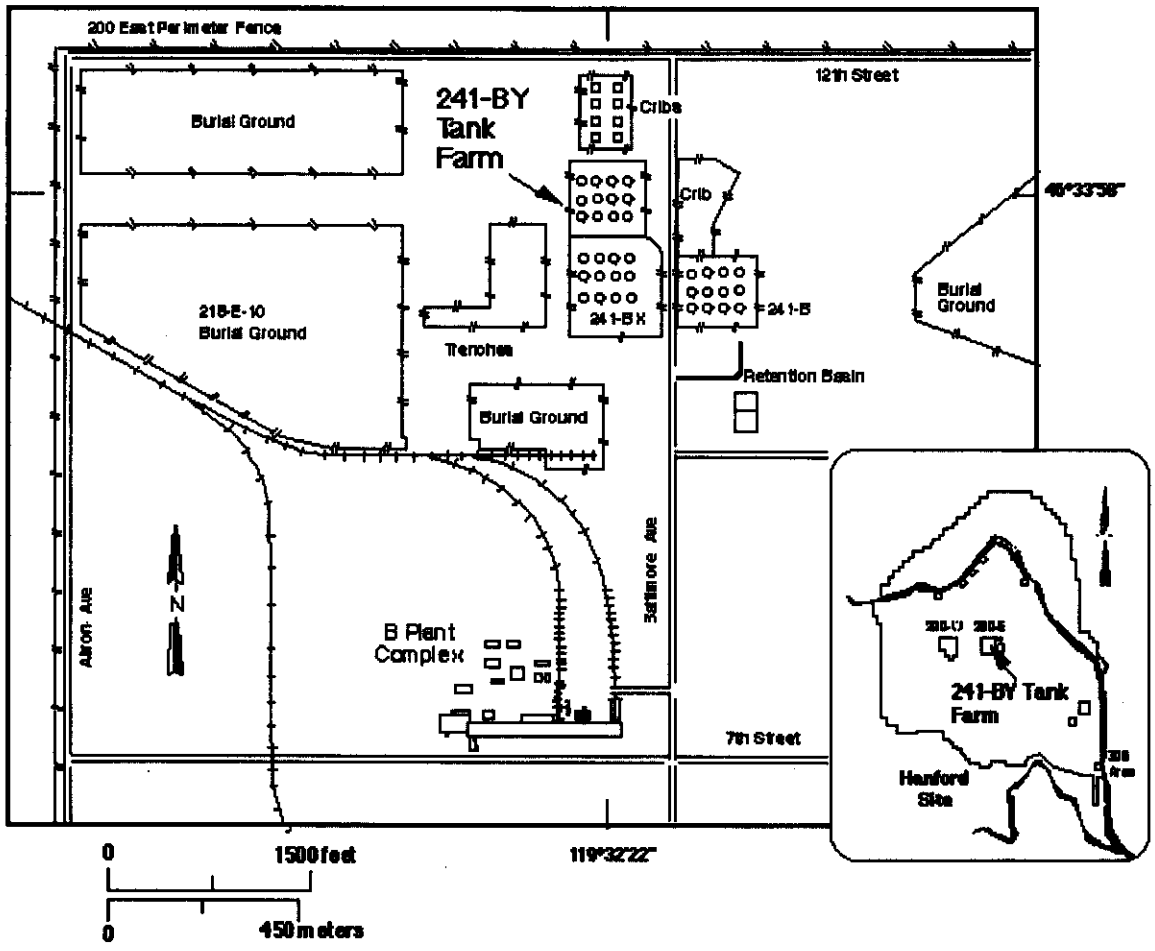
241-BX Single-Shell Tank Farm Site Plan



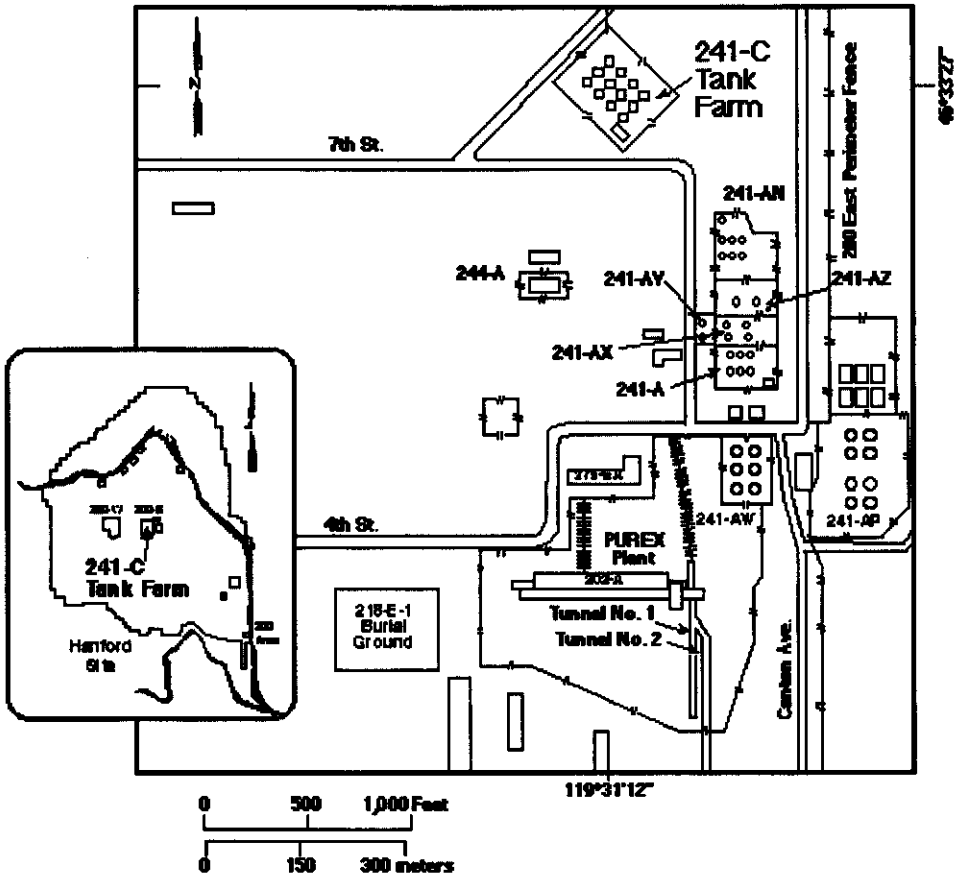
G01060088-19-72

241-BY Single-Shell Tank Farm Site Plan



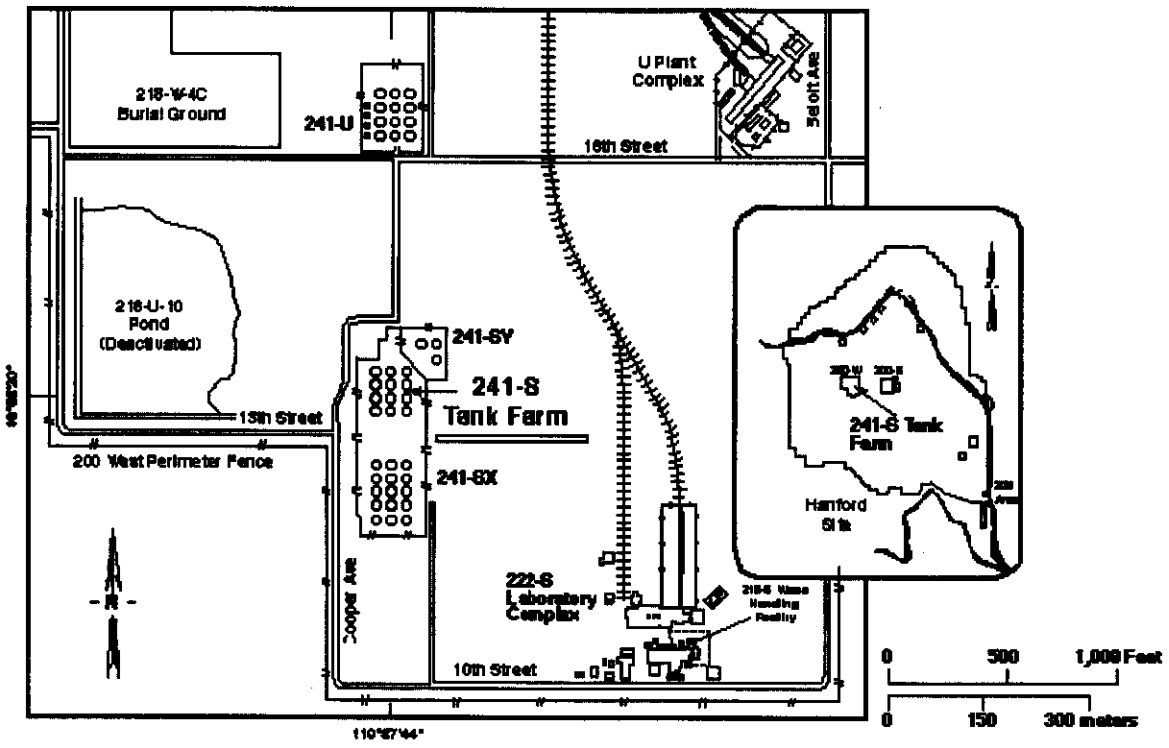
G01060088-17-72

241-C Single-Shell Tank Farm Site Plan



G01060088-8-72

241-S Single-Shell Tank Farm Site Plan



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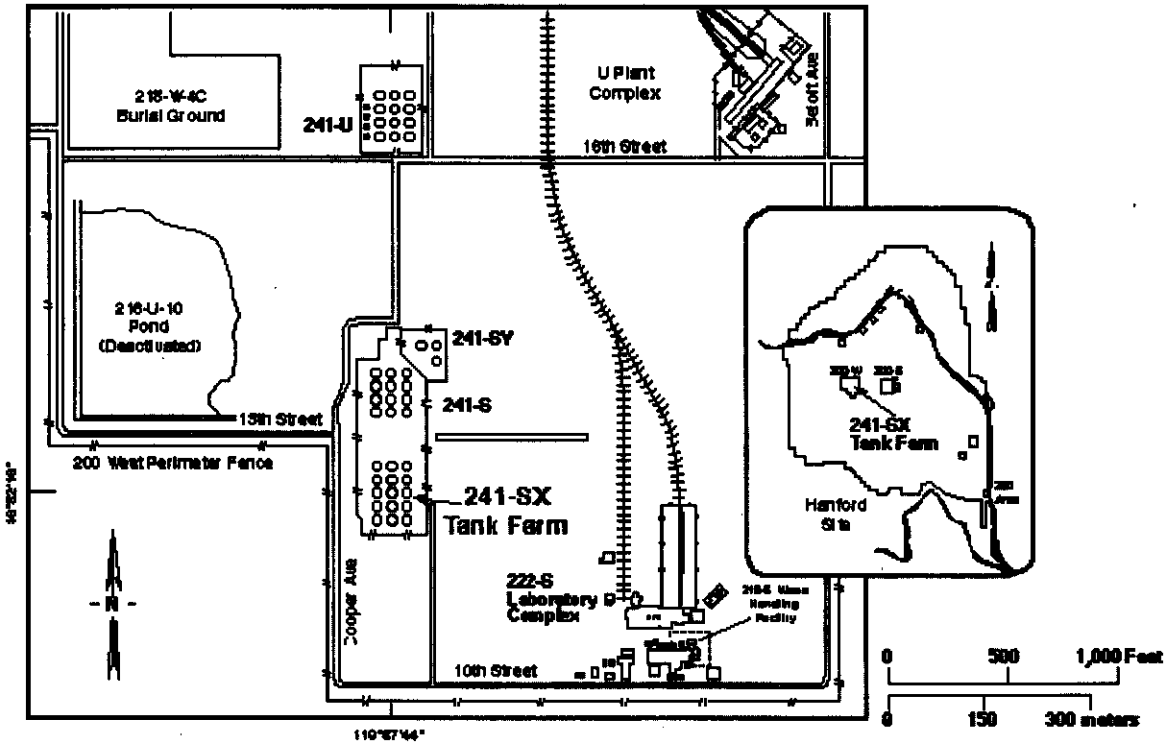
241-SX Single-Shell Tank Farm Site Plan



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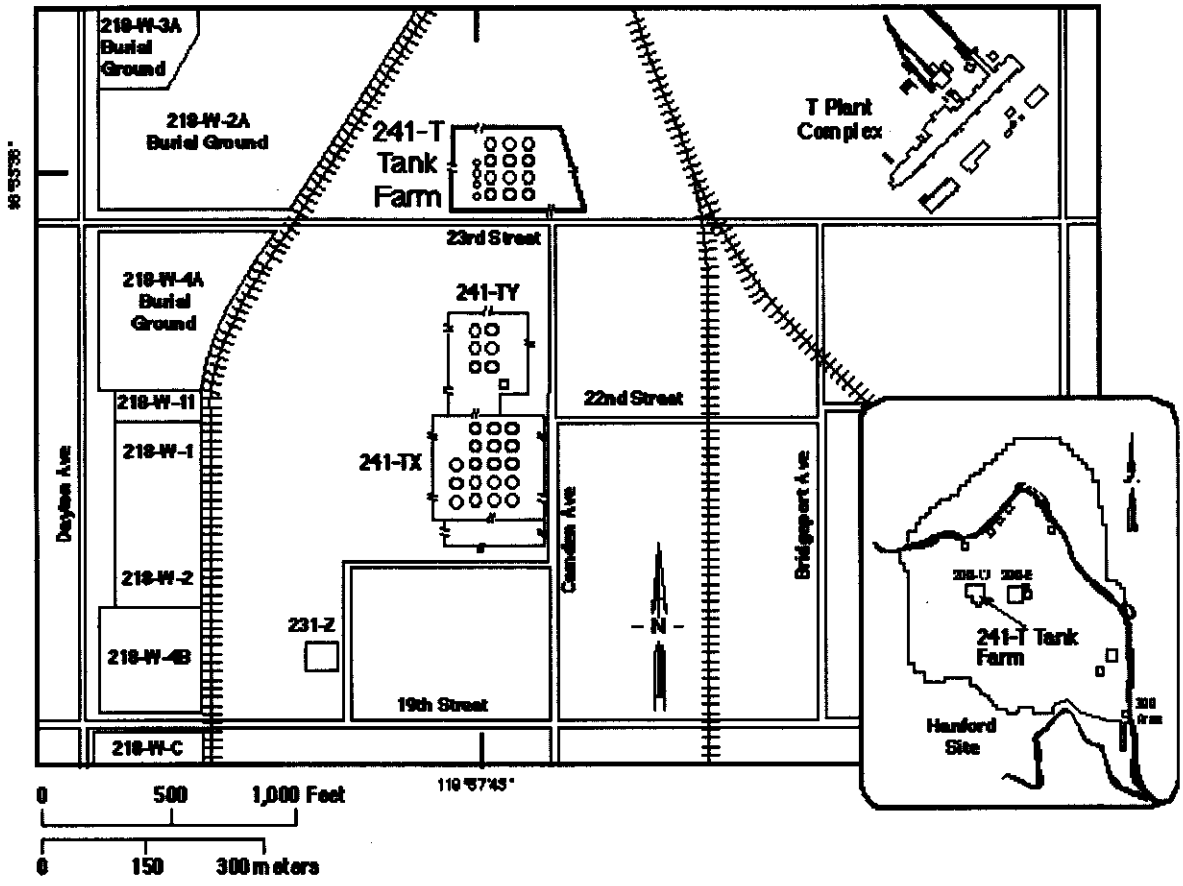
241-T Single-Shell Tank Farm Site Plan



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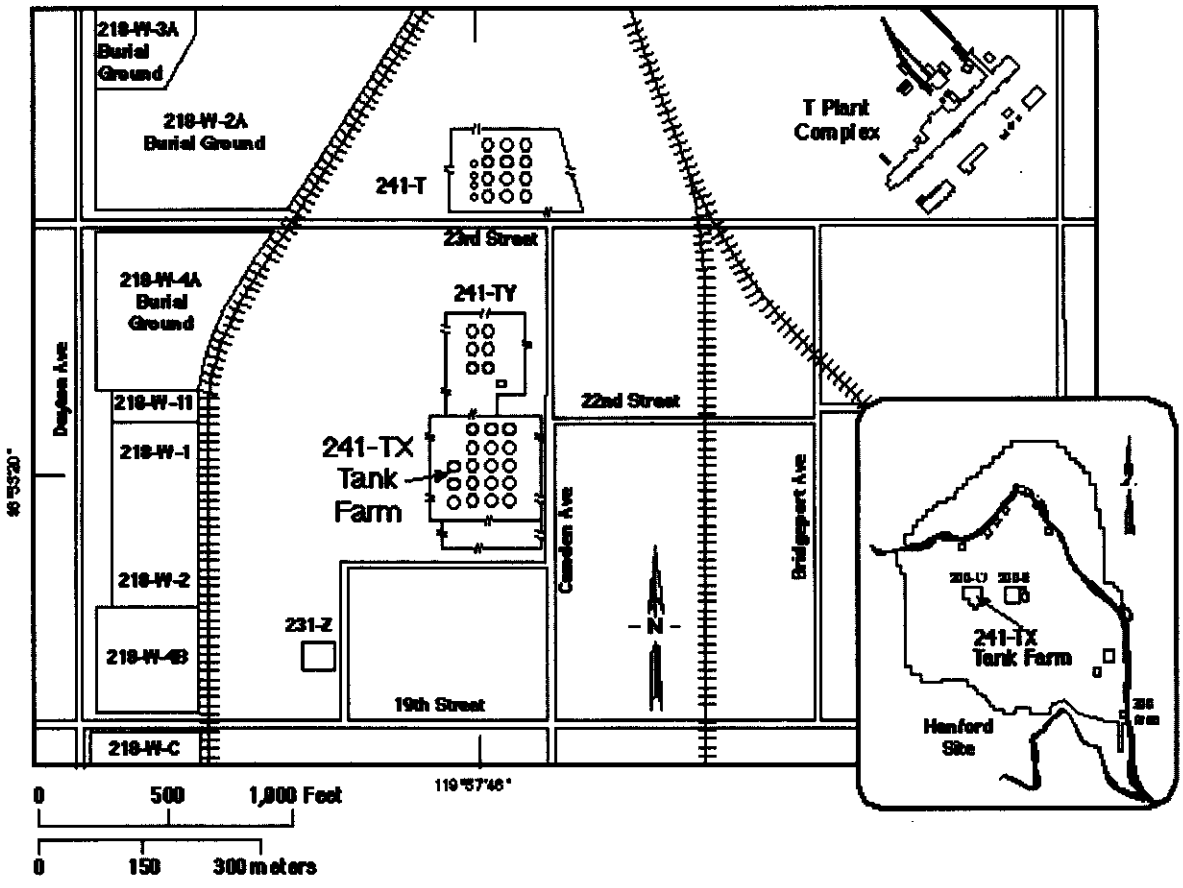
241-TX Single-Shell Tank Farm Site Plan



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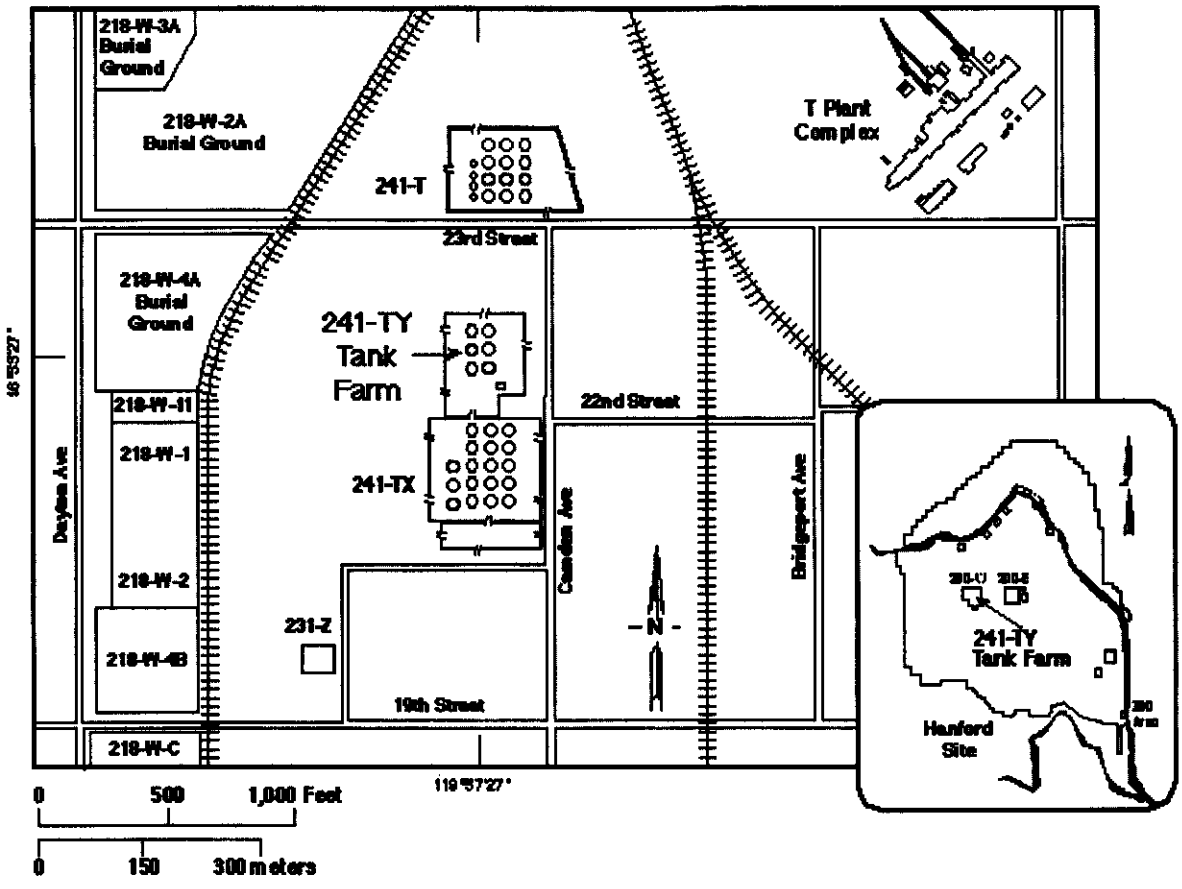
241-TY Single-Shell Tank Farm Site Plan



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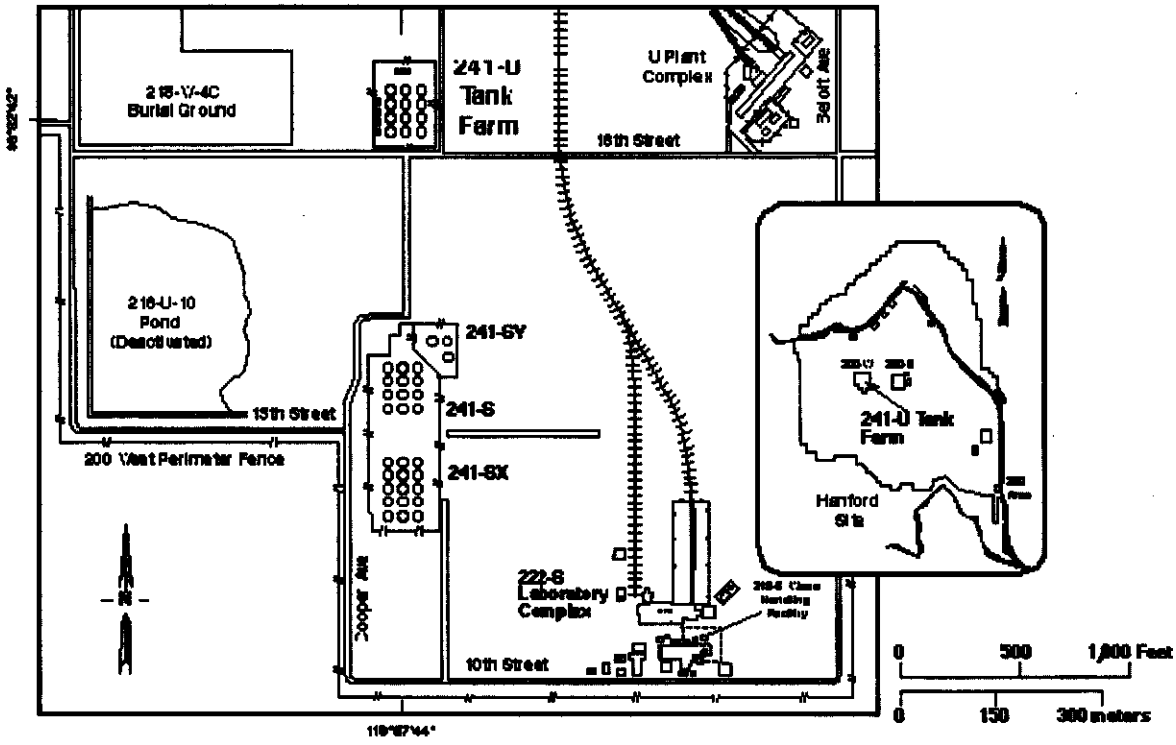
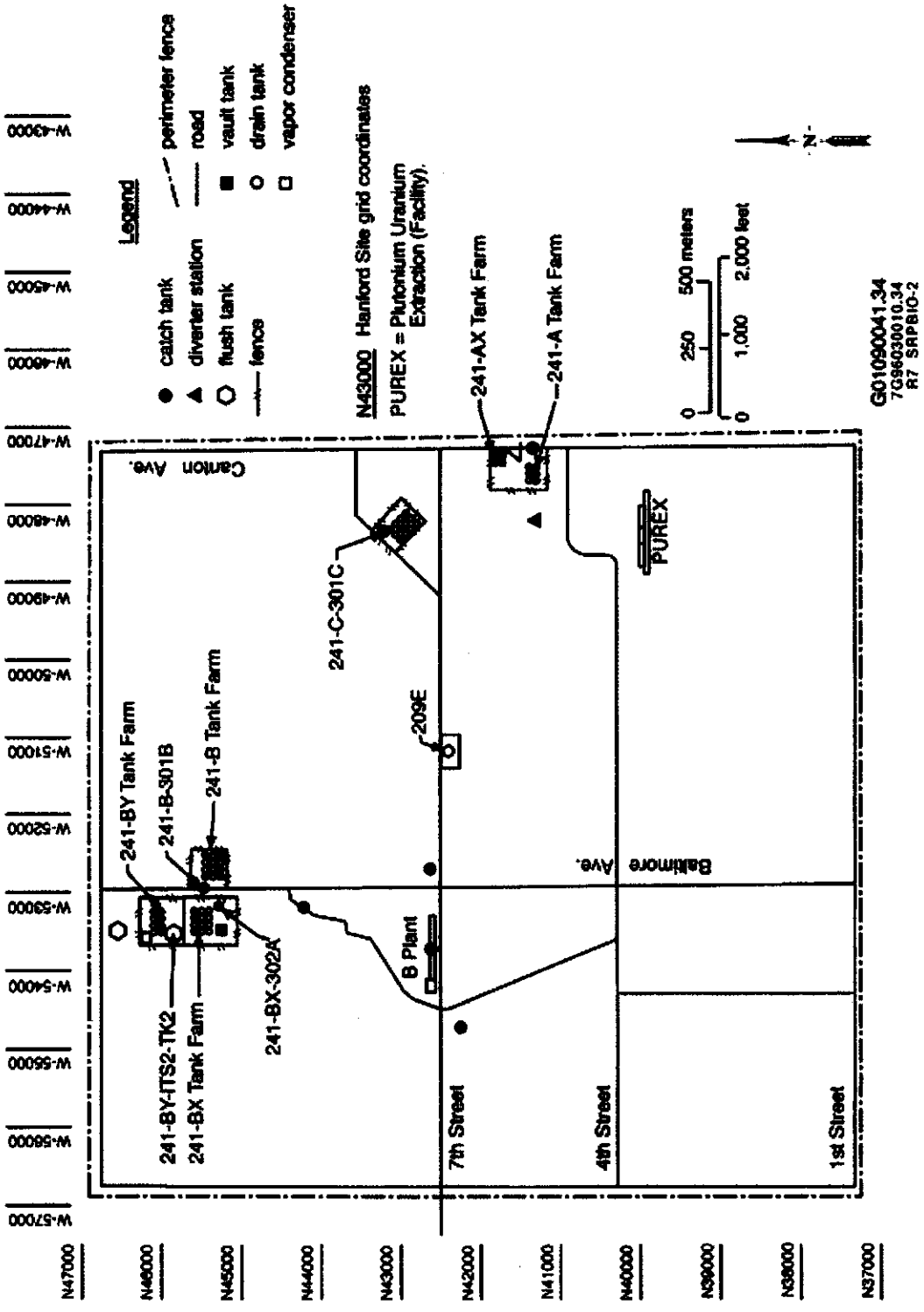
241-U Single-Shell Tank Farm Site Plan



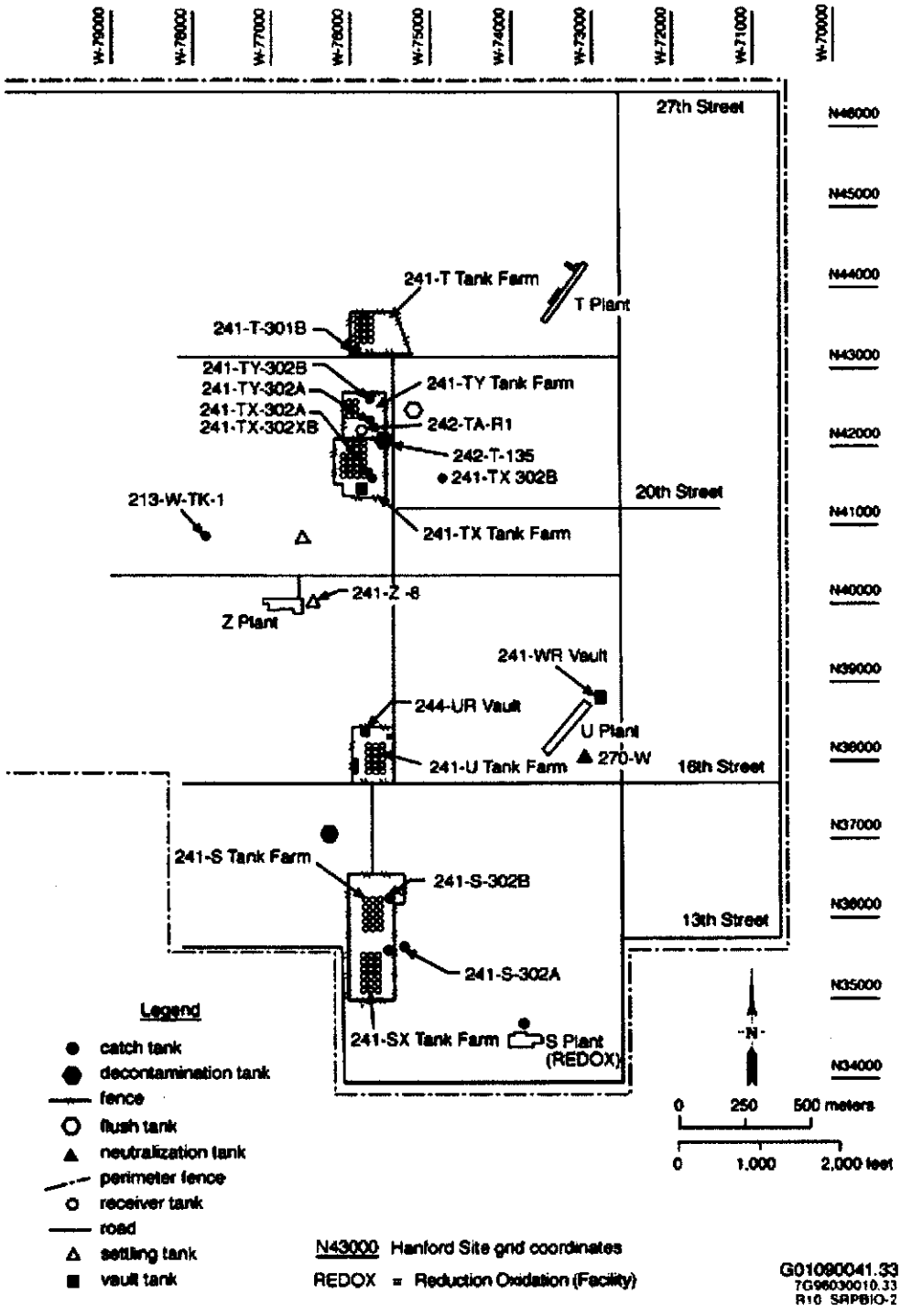
G01060088-13-72

200 East Miscellaneous Underground Storage Tanks Site Plan

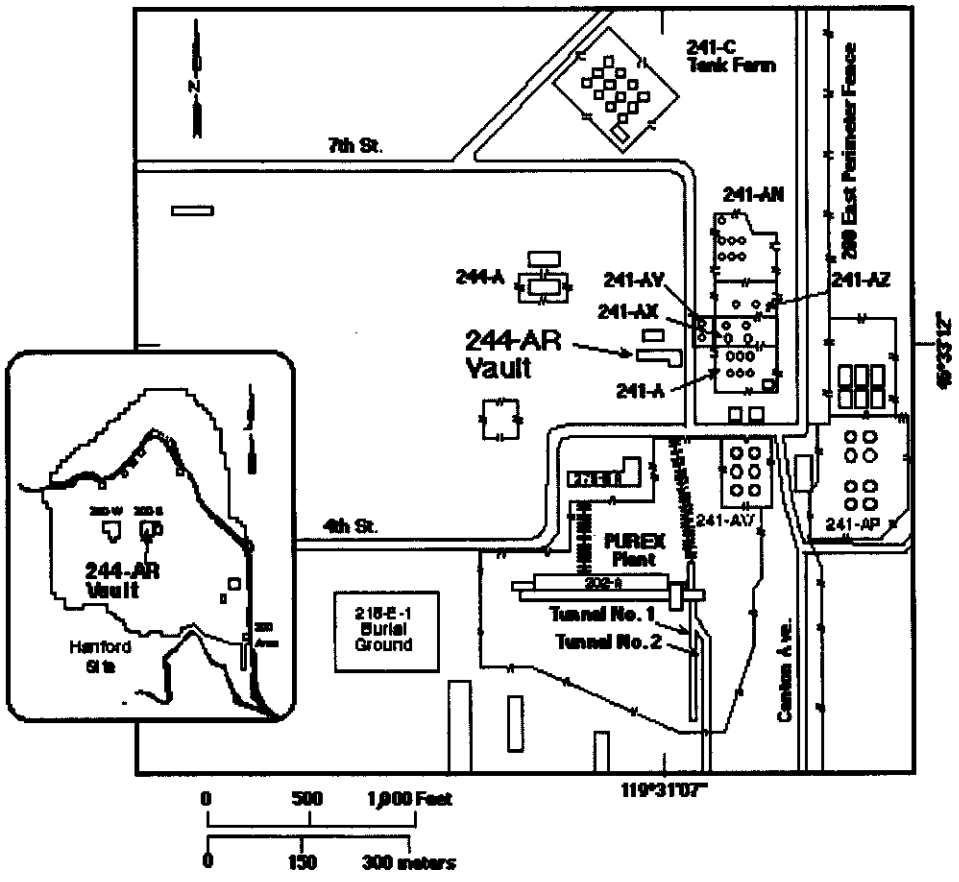


G01090041.34

200 West Miscellaneous Underground Storage Tanks Site Plan

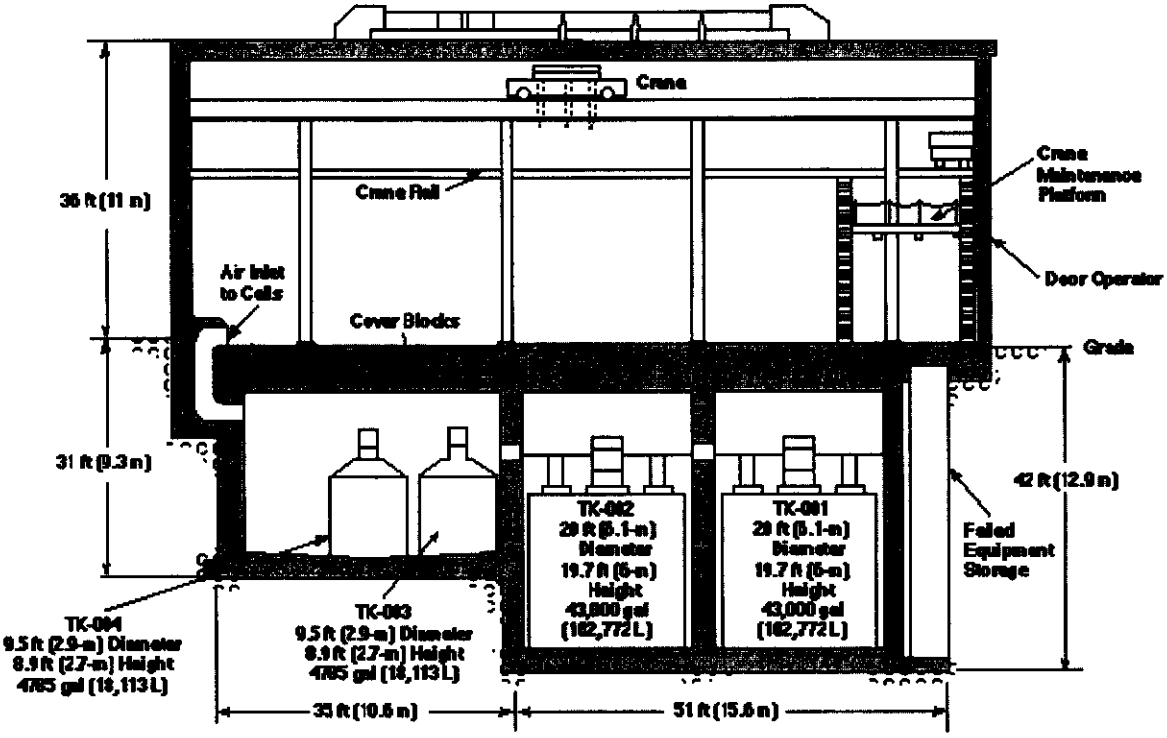


244-AR Vault Site Plan



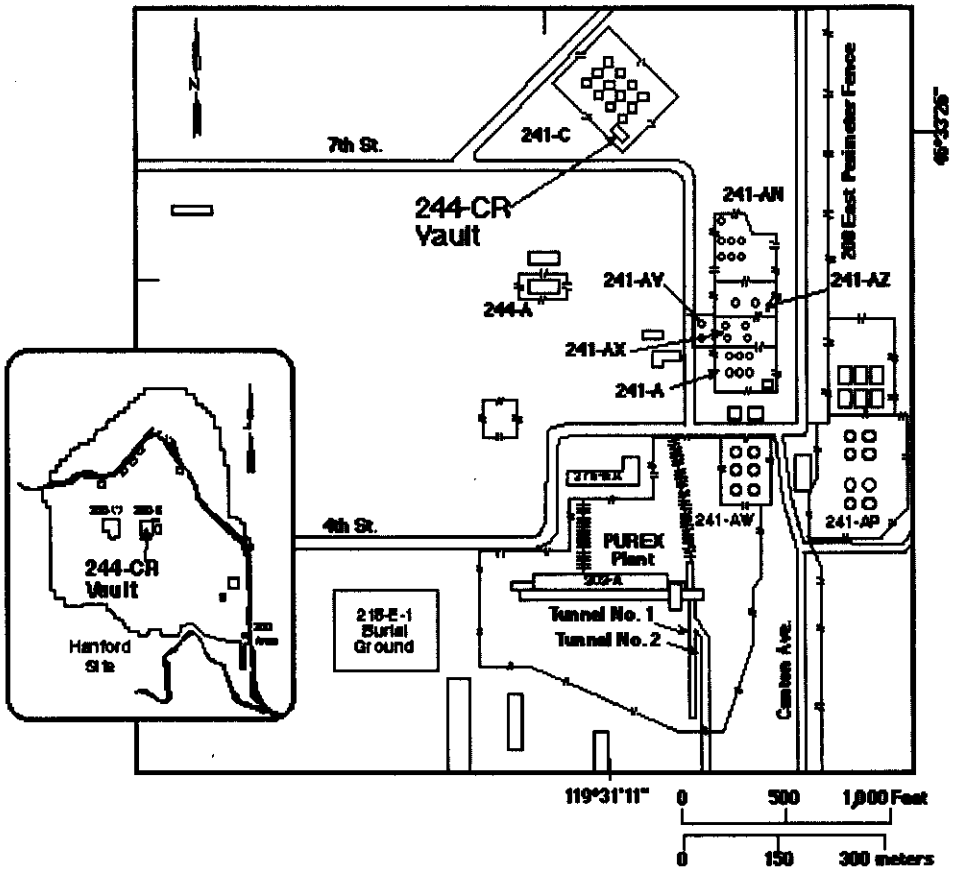
G01060088-9-72

244-AR Vault



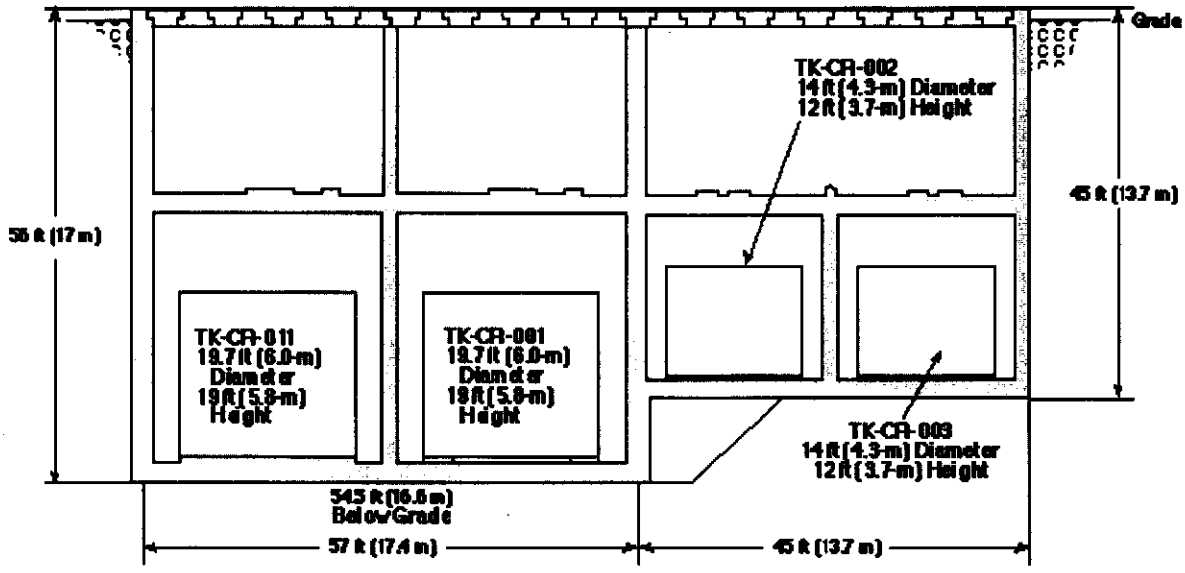
G01060088-3-72

244-CR Vault Site Plan



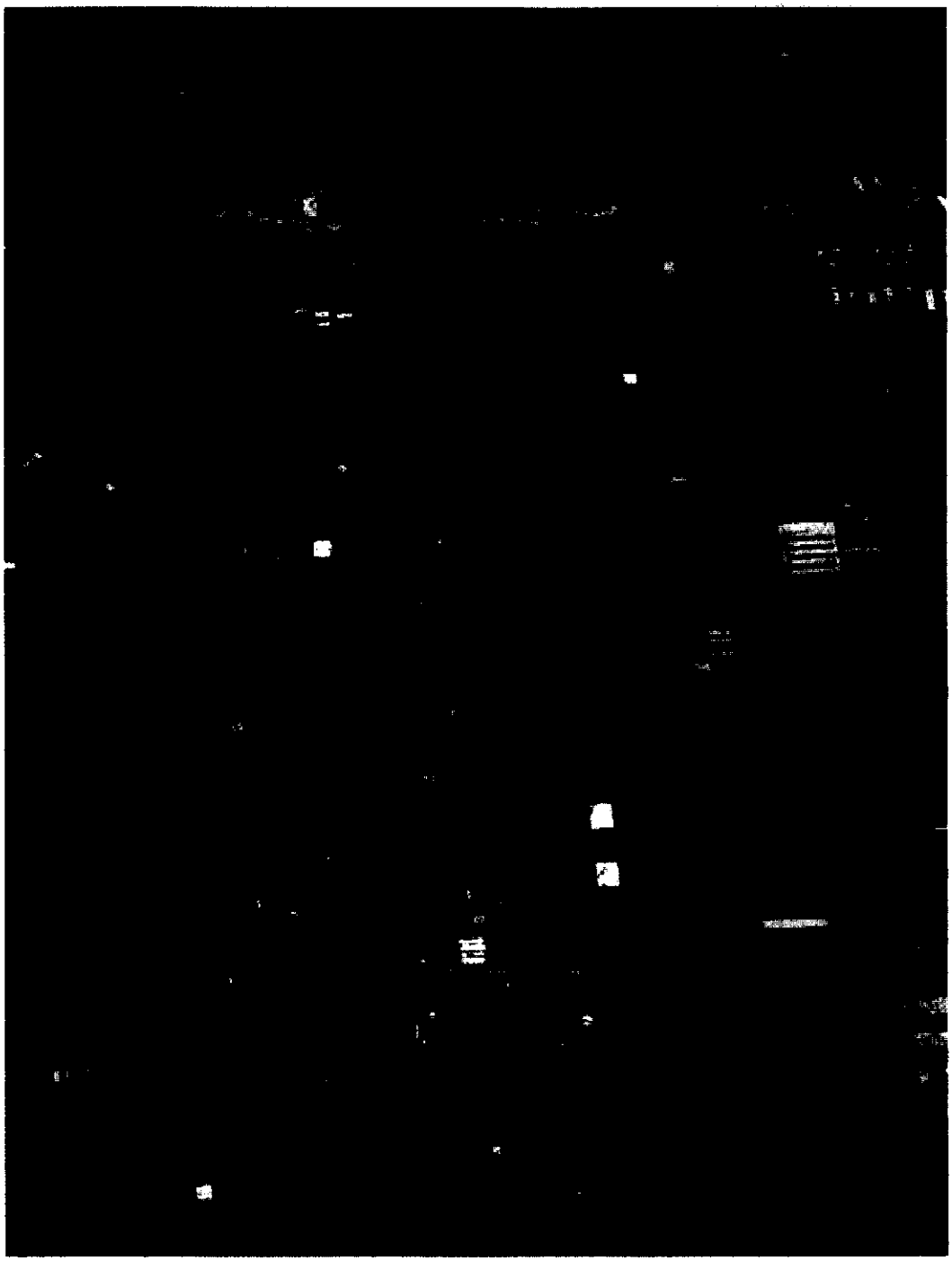
G01060088-10-72

244-CR Vault



G01060088-2-72

241-A SINGLE-SHELL TANK FARMS



46°33'11"
119°31'02"

00080128-19CN
(PHOTO TAKEN 2000)

241-AX SINGLE-SHELL TANK FARM

46°33'15"
119°31'02"

01050061-43CN
(PHOTO TAKEN 2000)

241-B SINGLE-SHELL TANK FARM

46°33'52"
119°32'14"

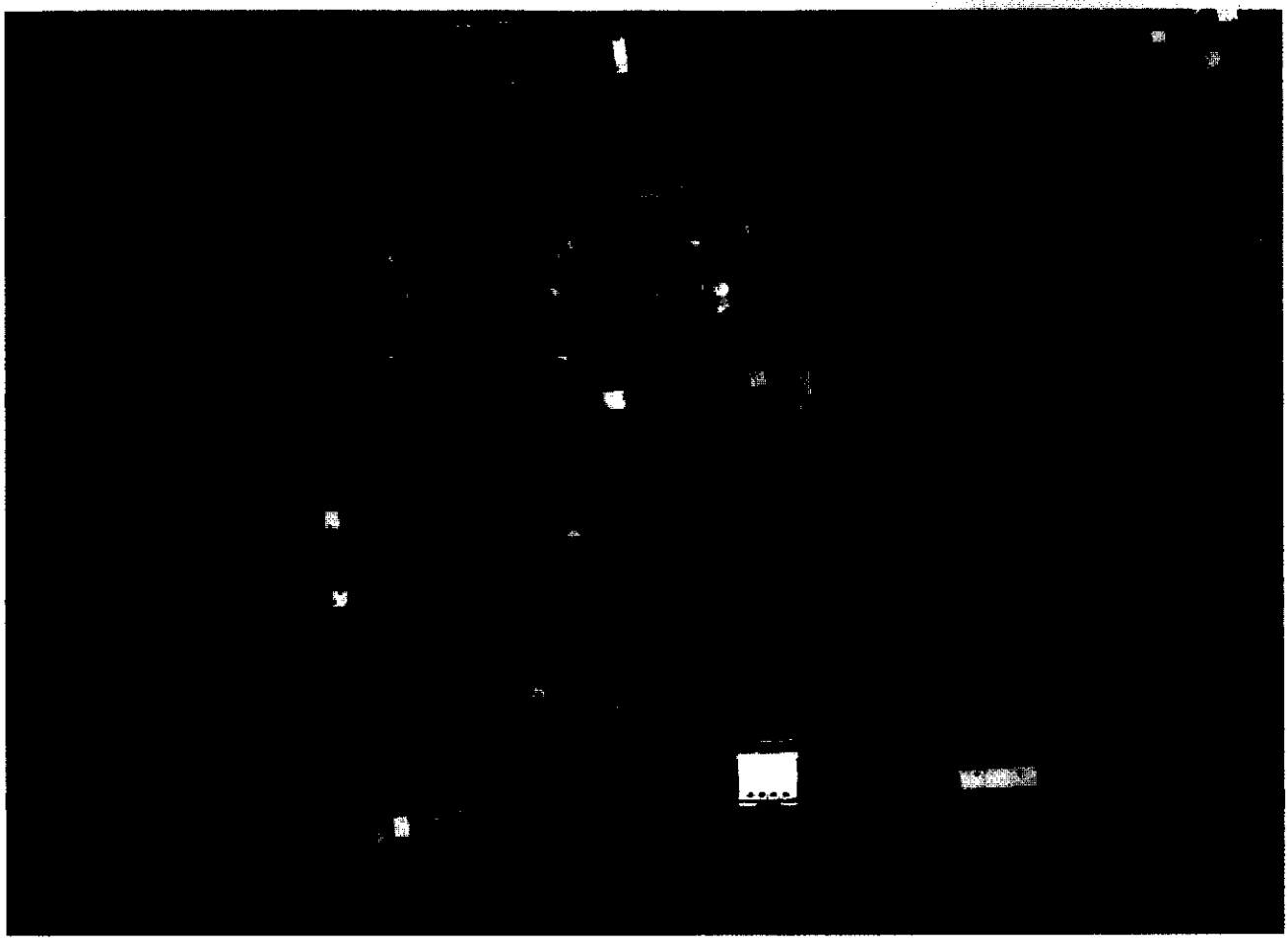
00060195-47CN
(PHOTO TAKEN 2000)

241-BX SINGLE-SHELL TANK FARM

46°33'54"
119°32'22"

00060196-81CN
(PHOTO TAKEN 2000)

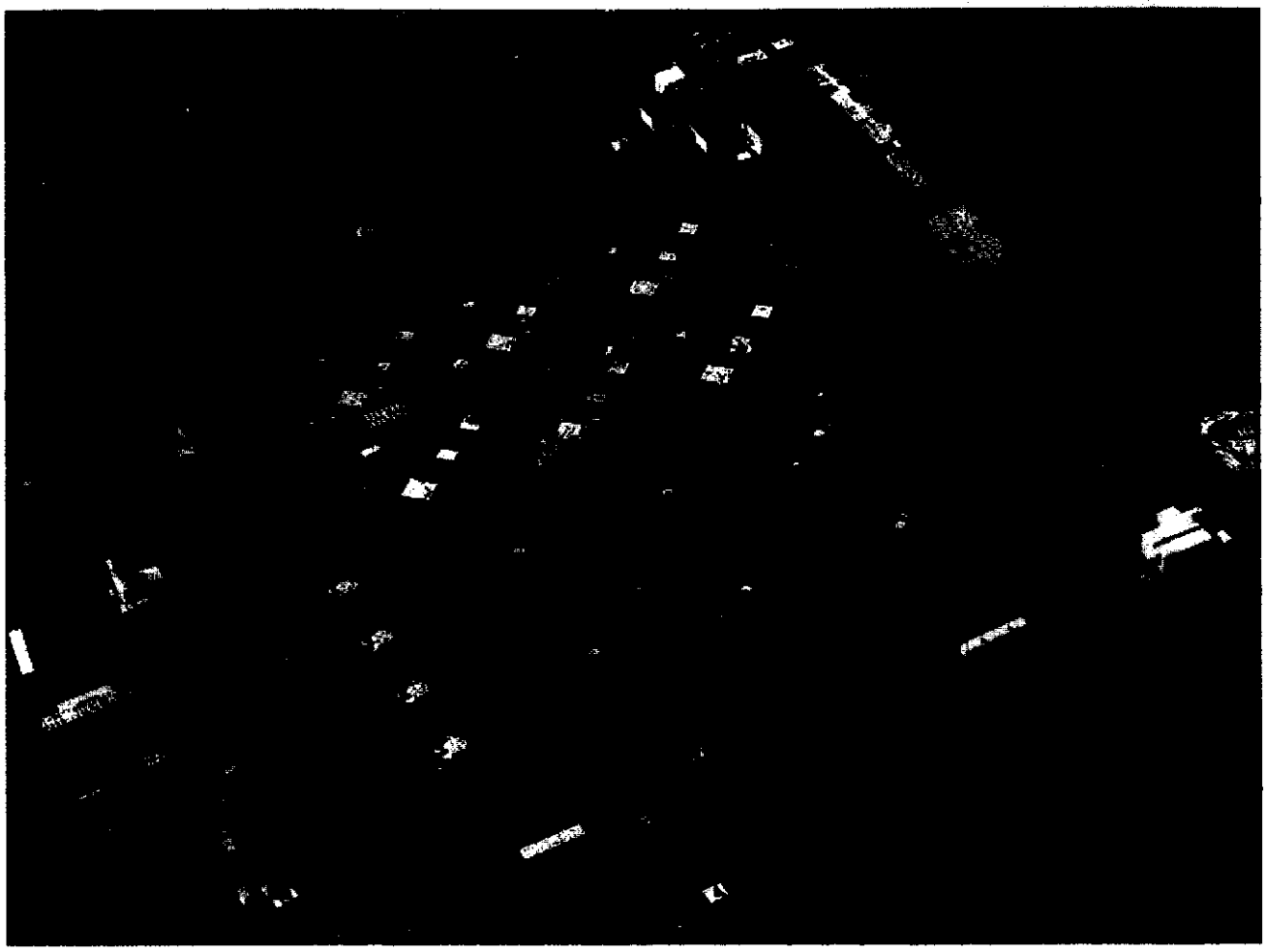
241-BY SINGLE-SHELL TANK FARM



46°33'58"
119°32'22"

00060195-52CN
(PHOTO TAKEN 2000)

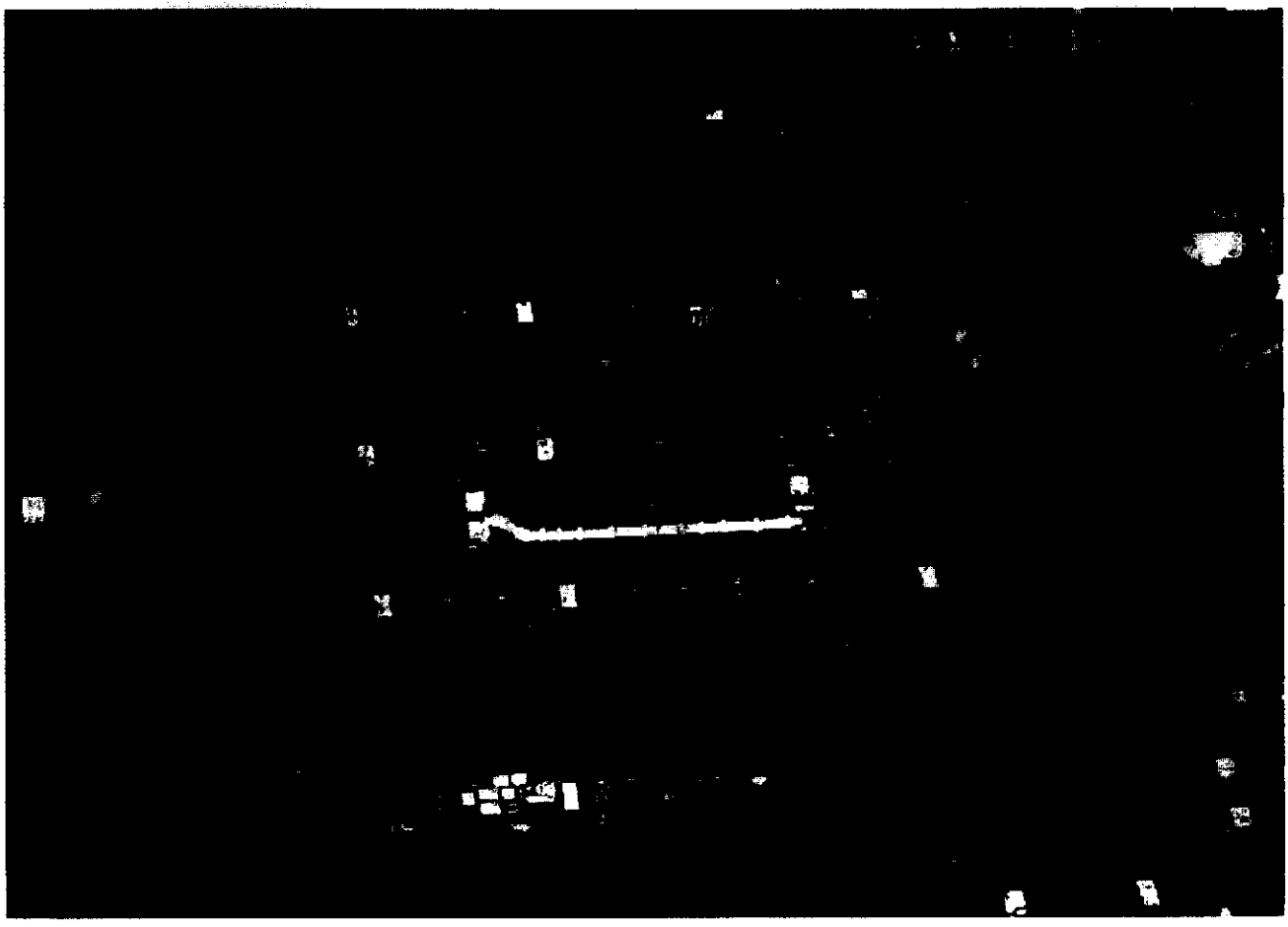
241-C SINGLE-SHELL TANK FARM



46°33'27"
119°31'12"

01050061-30CN
(PHOTO TAKEN 2000)

241-S SINGLE-SHELL TANK FARM



46°33'20"
119°37'44"

00040208-18CN
(PHOTO TAKEN 2000)

241-SX SINGLE-SHELL TANK FARM

46°32'16"
119°37'44"

00040208-17CN
(PHOTO TAKEN 2000)

241-T SINGLE-SHELL TANK FARM

46°33'36"
119°37'43"

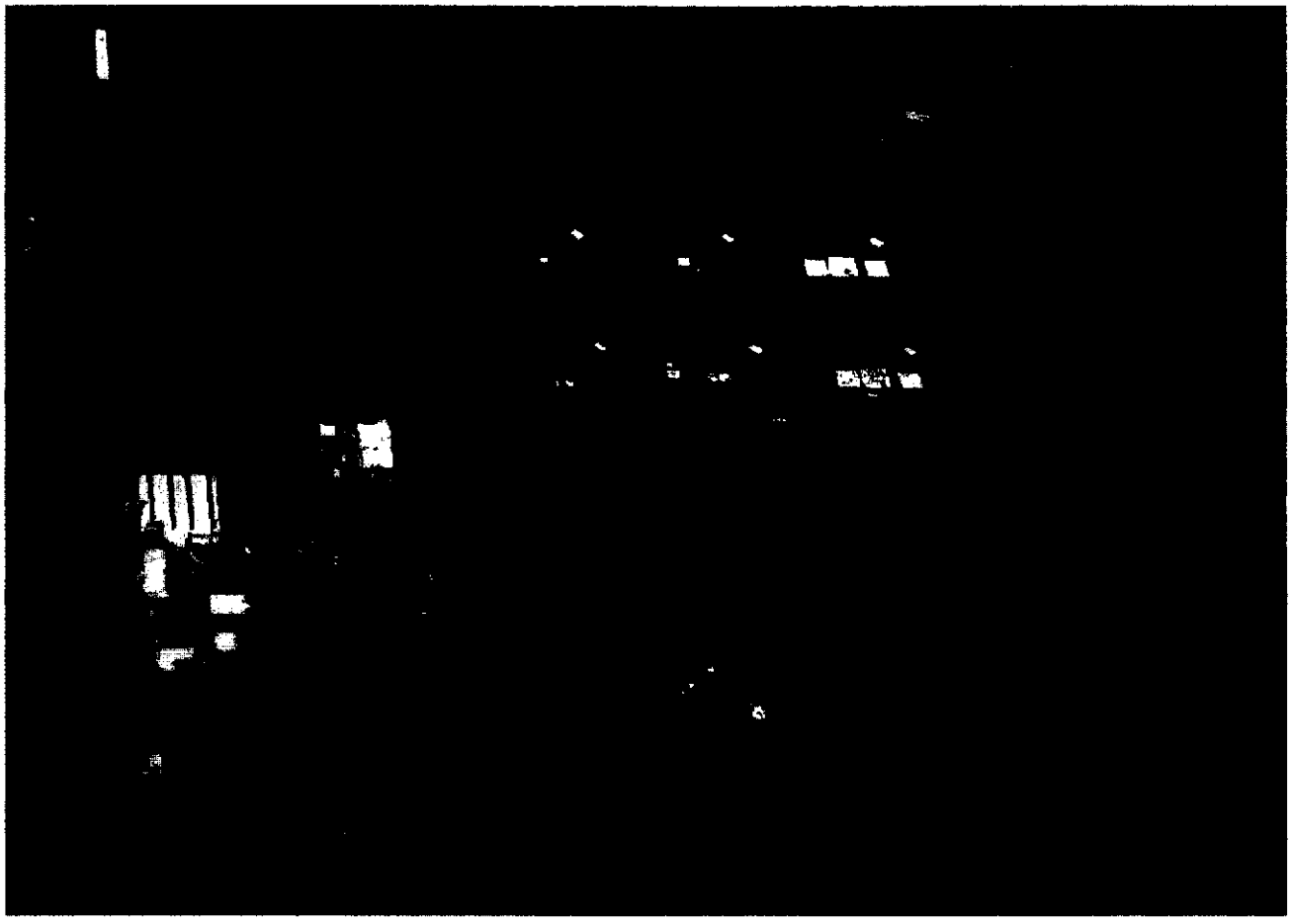
00040208-22CN
(PHOTO TAKEN 2000)

241-TX SINGLE-SHELL TANK FARM

46°33'20"
119°37'46"

00040208-20CN
(PHOTO TAKEN 2000)

241-TY SINGLE-SHELL TANK FARM



46°33'27"
119°37'27"

00040208-21CN
(PHOTO TAKEN 2000)

241-U SINGLE-SHELL TANK FARM

46°32'42"
119°37'44"

00040208-19CN
(PHOTO TAKEN 2000)

244-AR VAULT

46°33'12"
119°31'07"

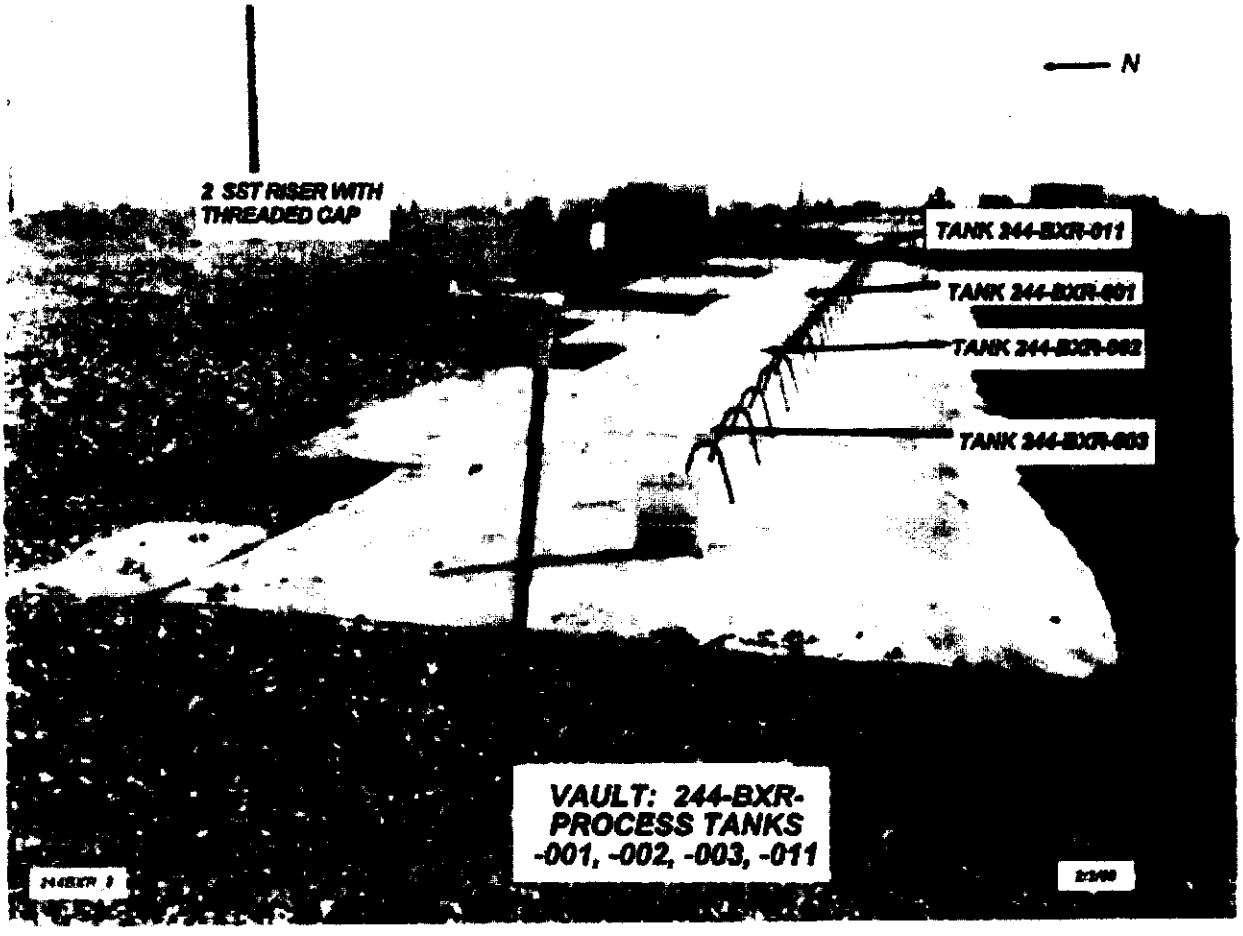
8704135-16CN
(PHOTO TAKEN 1987)

244-CR VAULT

46°33'26"
119°31'11"

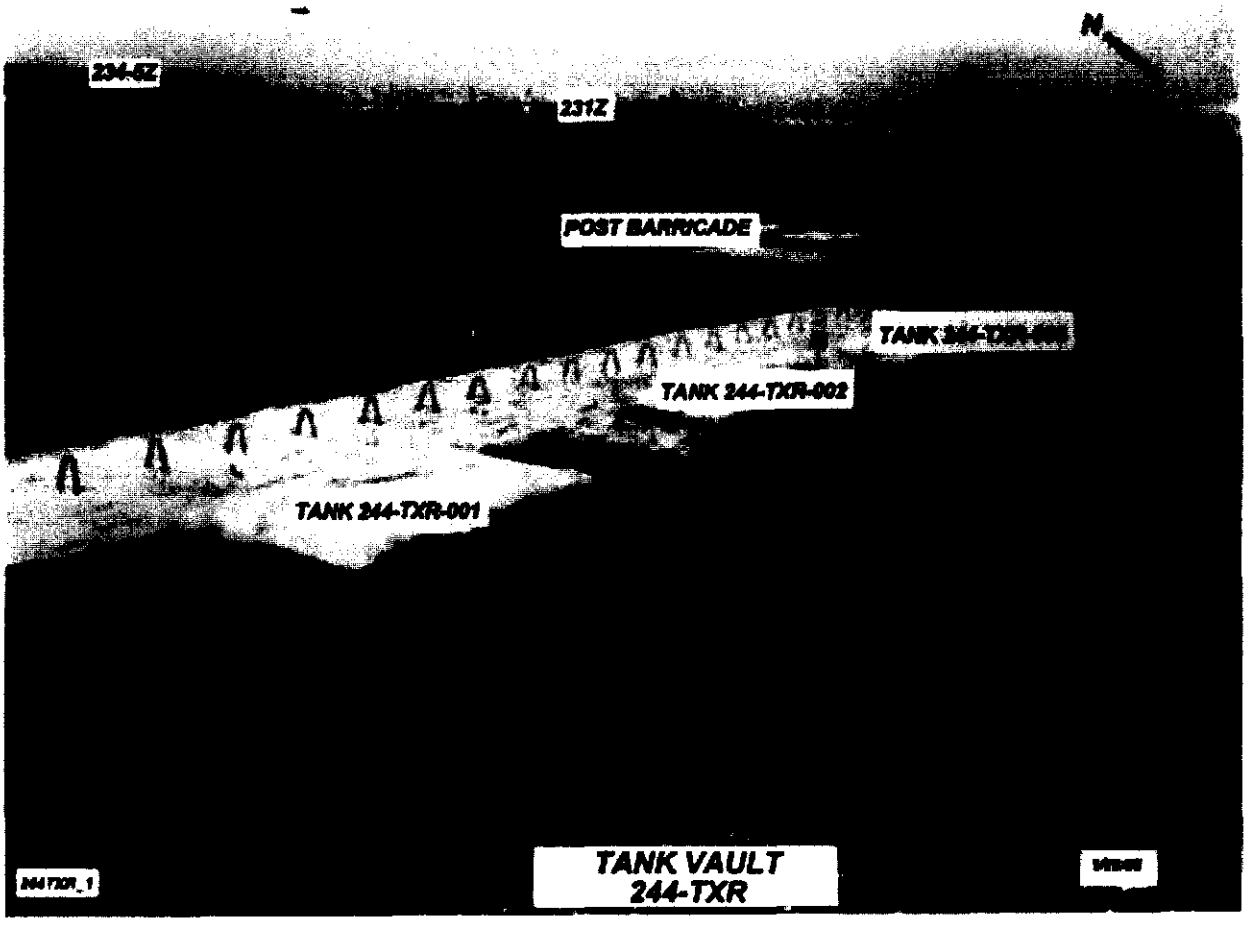
8704135-14CN
(PHOTO TAKEN 1987)

244-BXR Vault



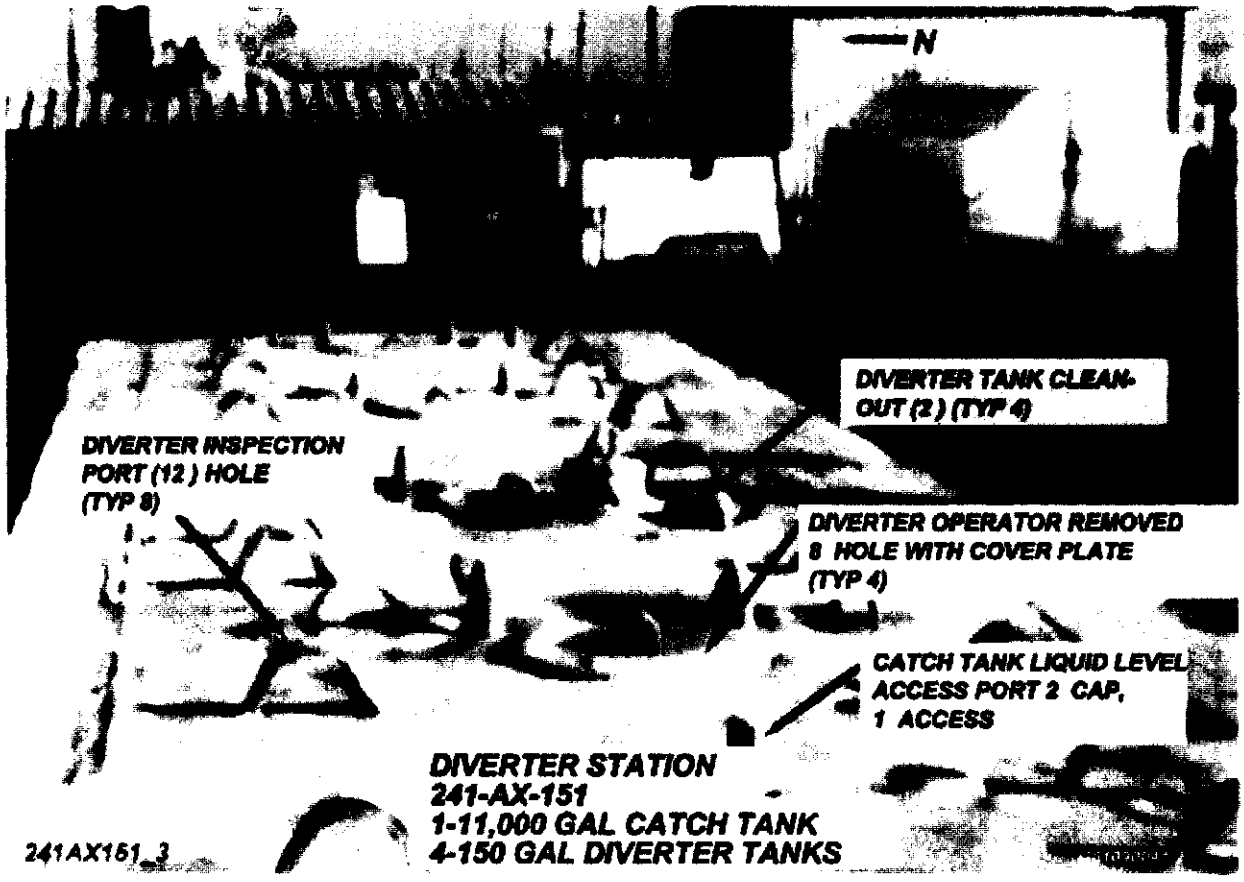
G01090041.14

244-TXR Vault



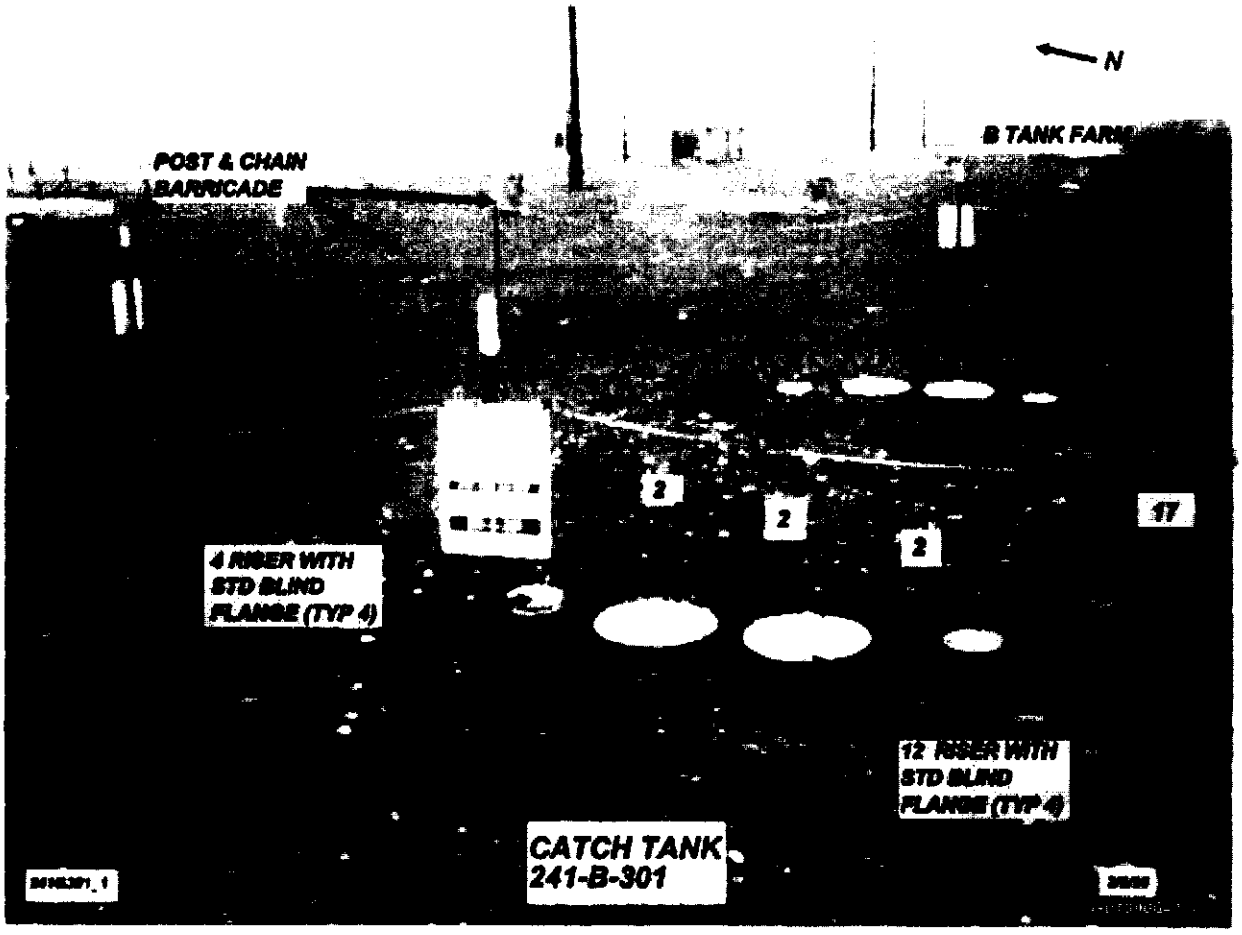
G01090041.15

241-AX-151 Catch Tank



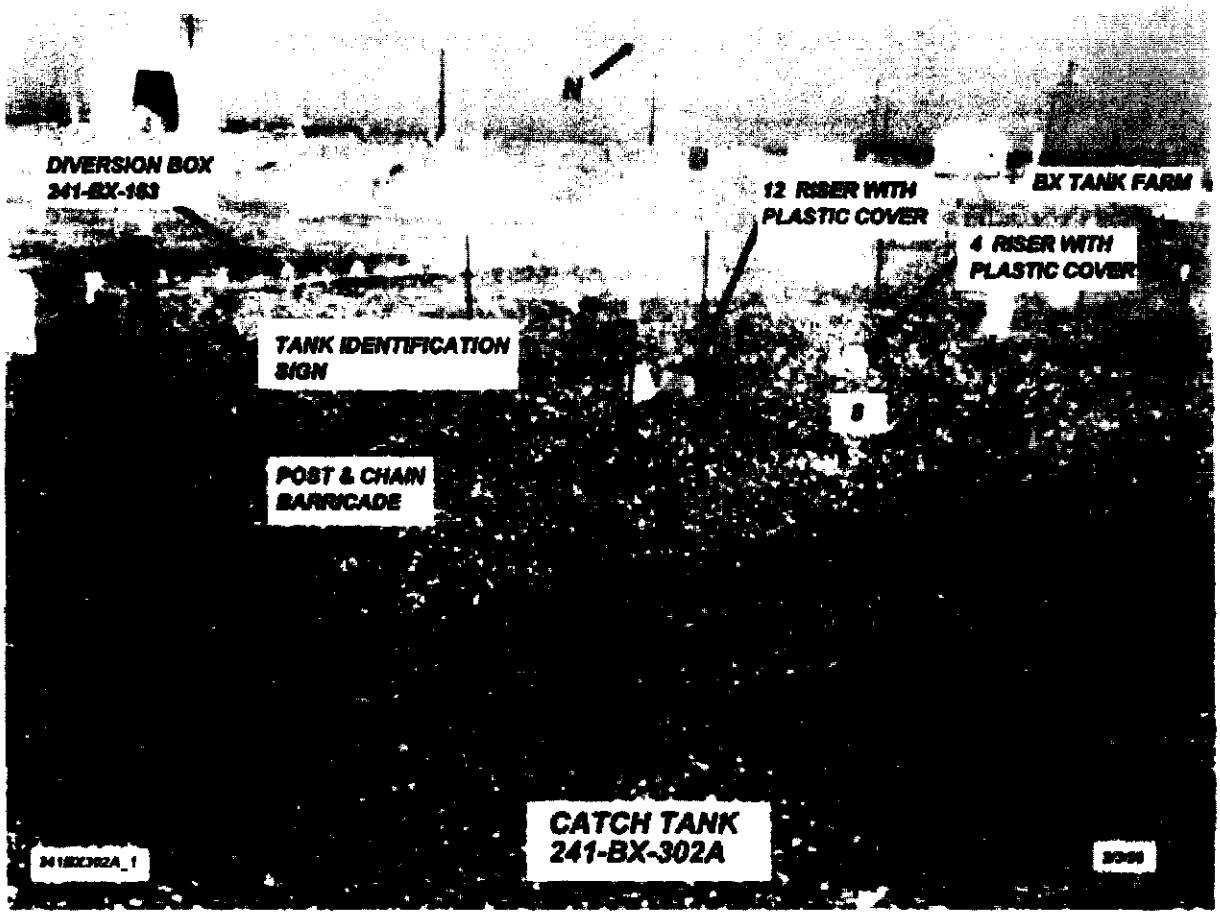
G01090041.2

241-B-301 Catch Tank



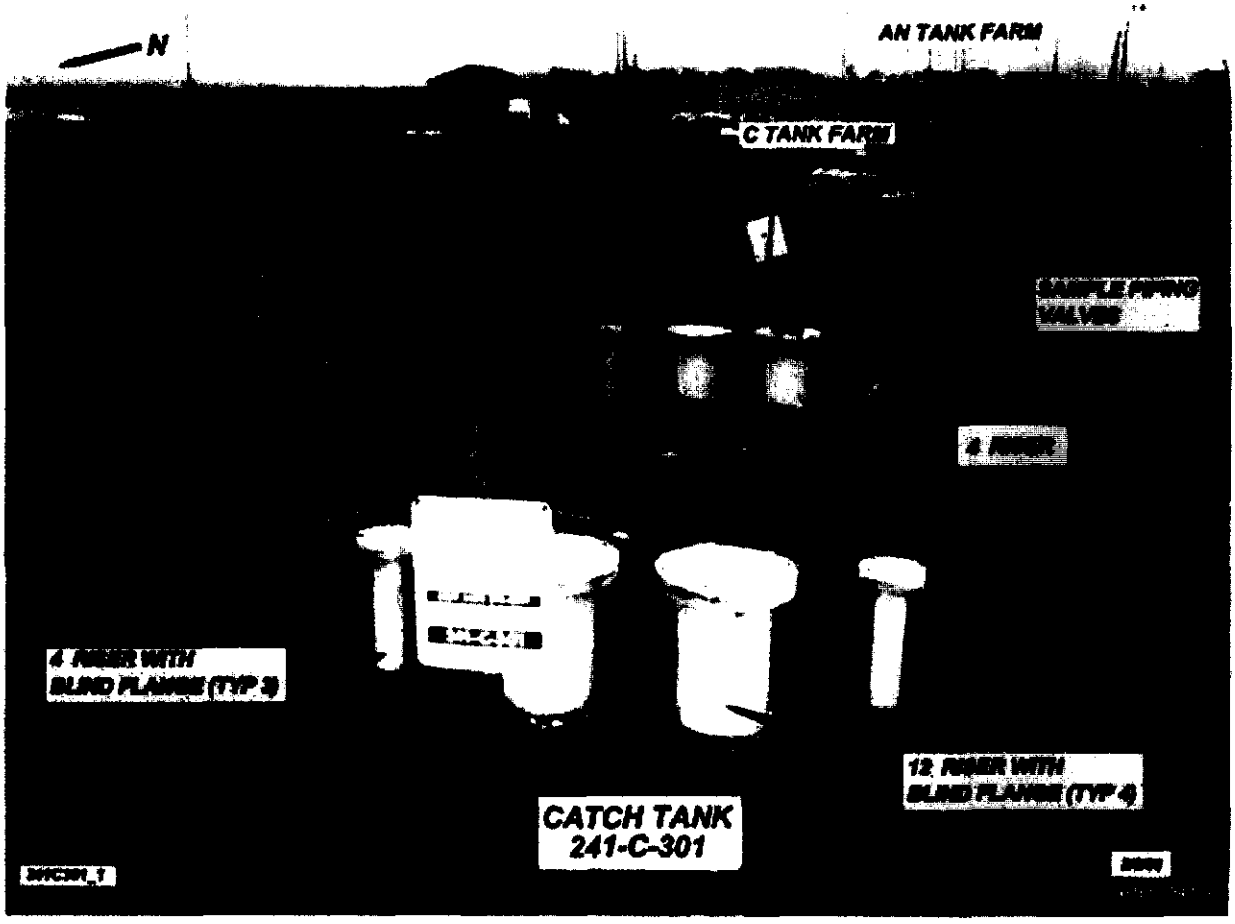
G01090041.3

241-BX-302A Catch Tank



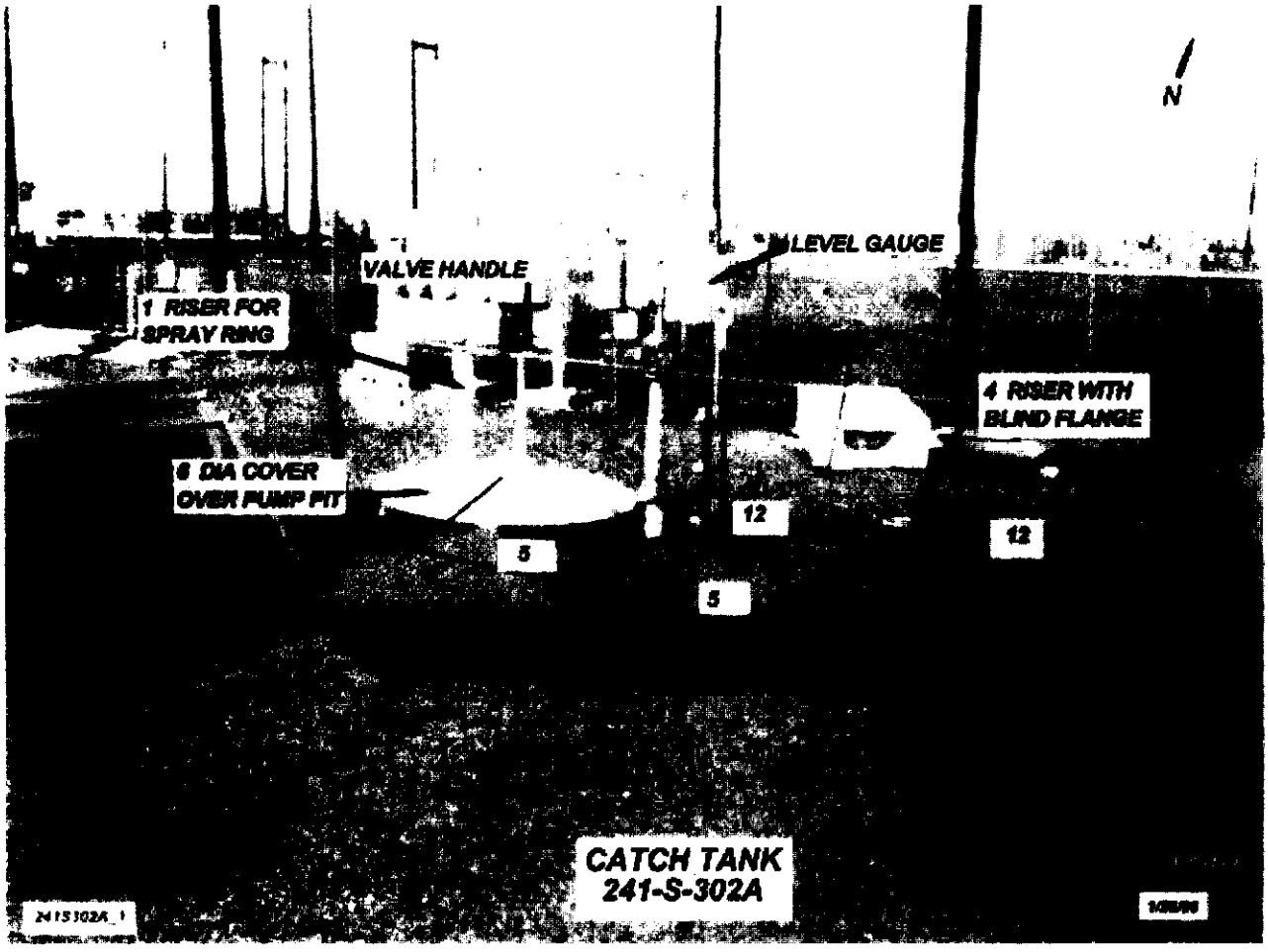
G01090041.4

241-C-301 Catch Tank



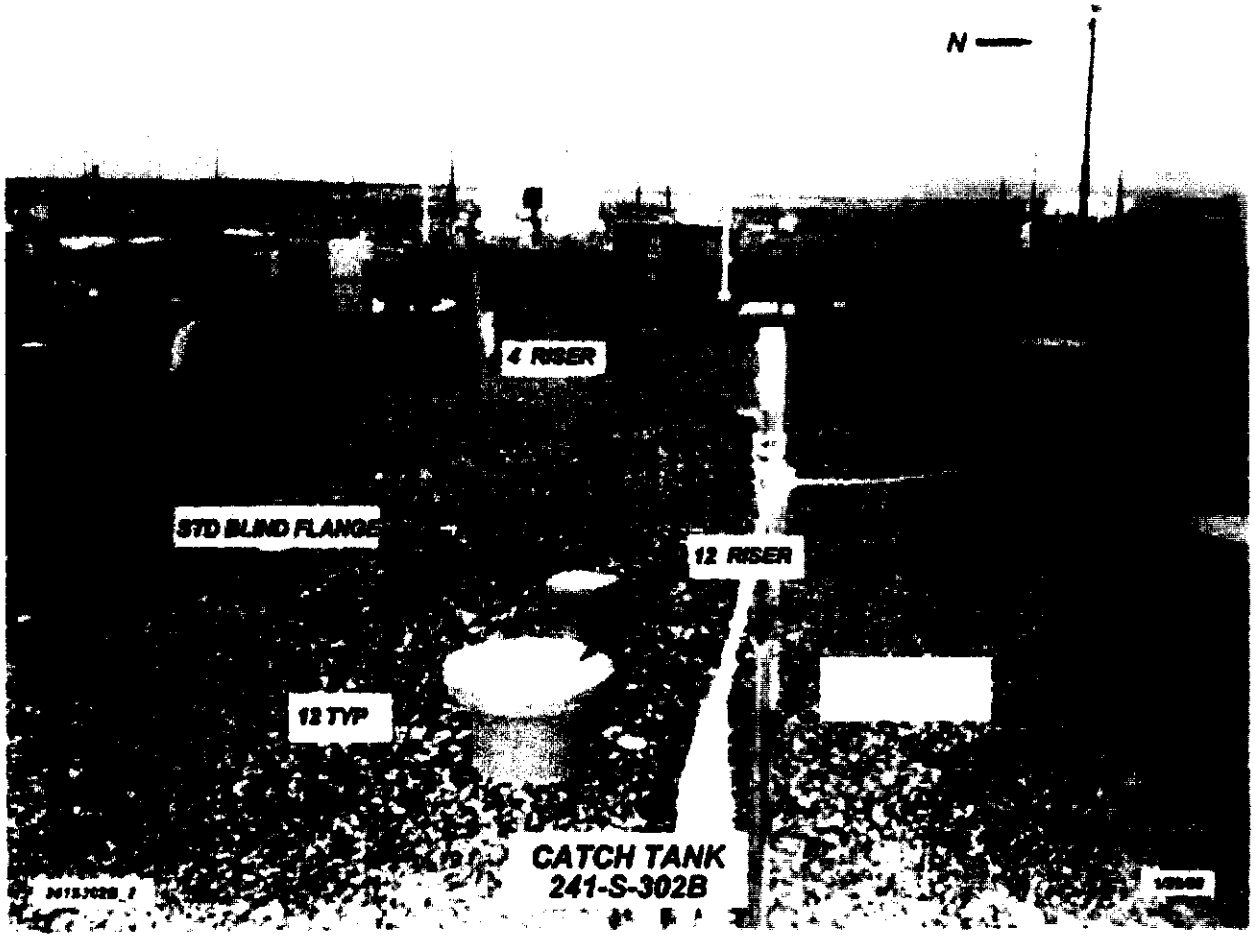
G01090041.5

241-S-302A Catch Tank



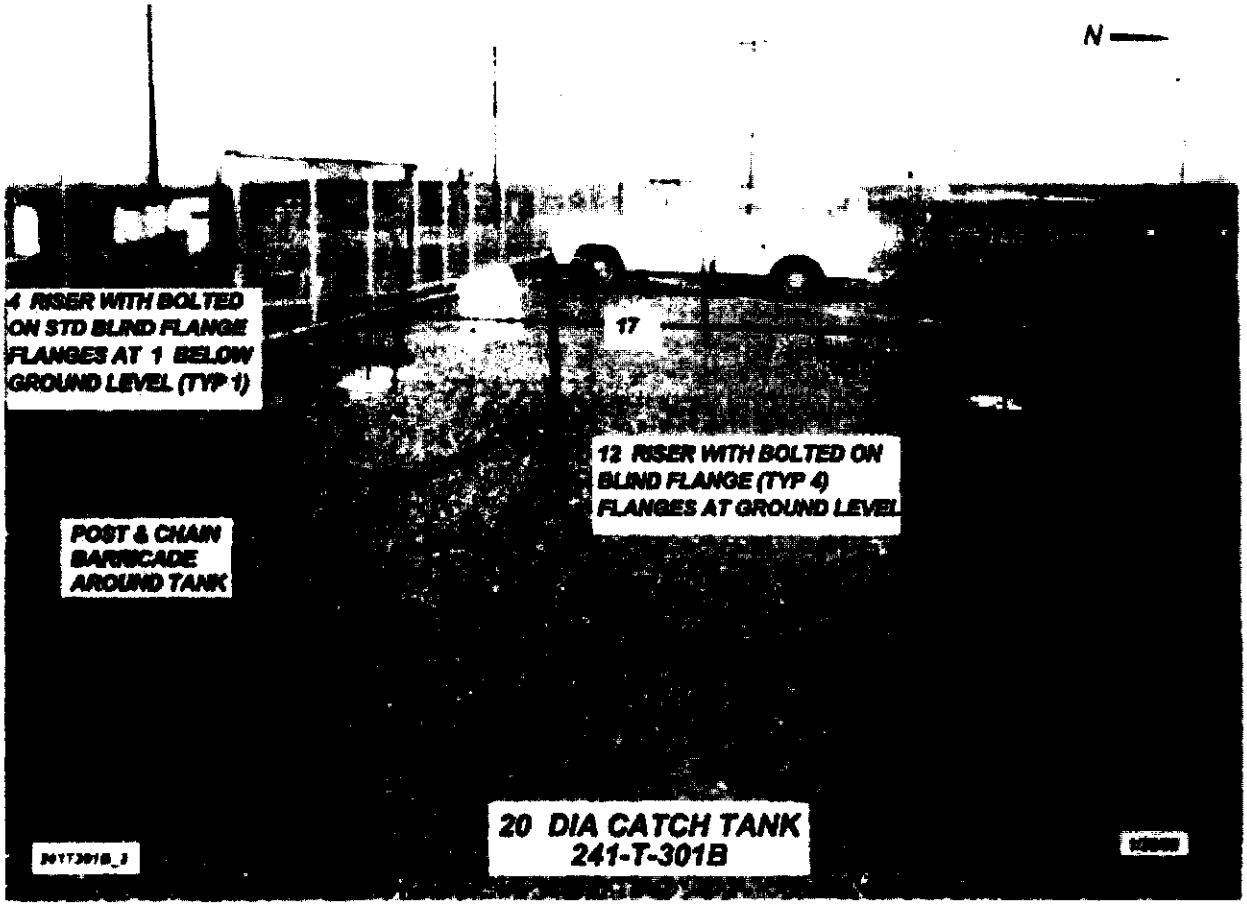
G01090041.6

241-S-302B Catch Tank



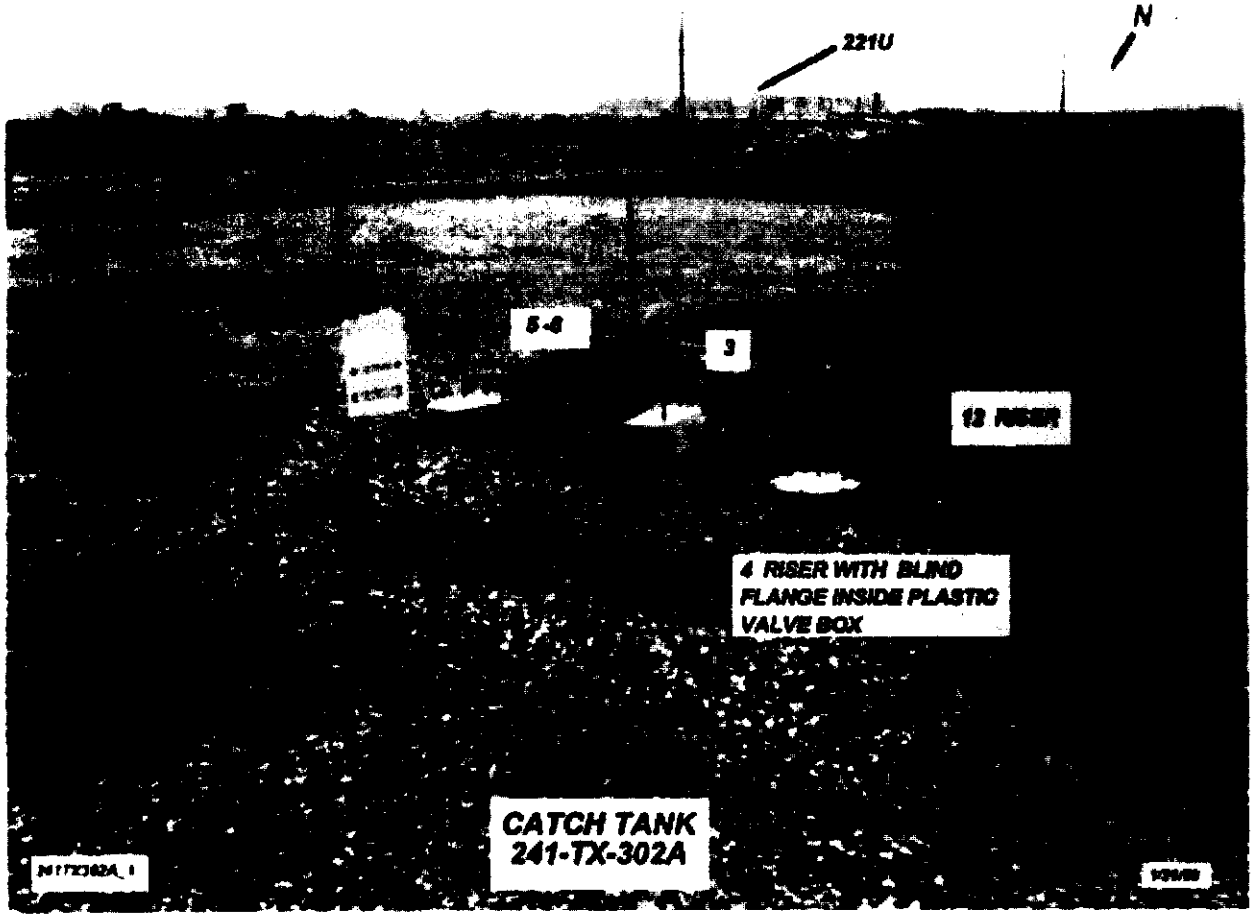
G01090041.7

241-T-301B Catch Tank



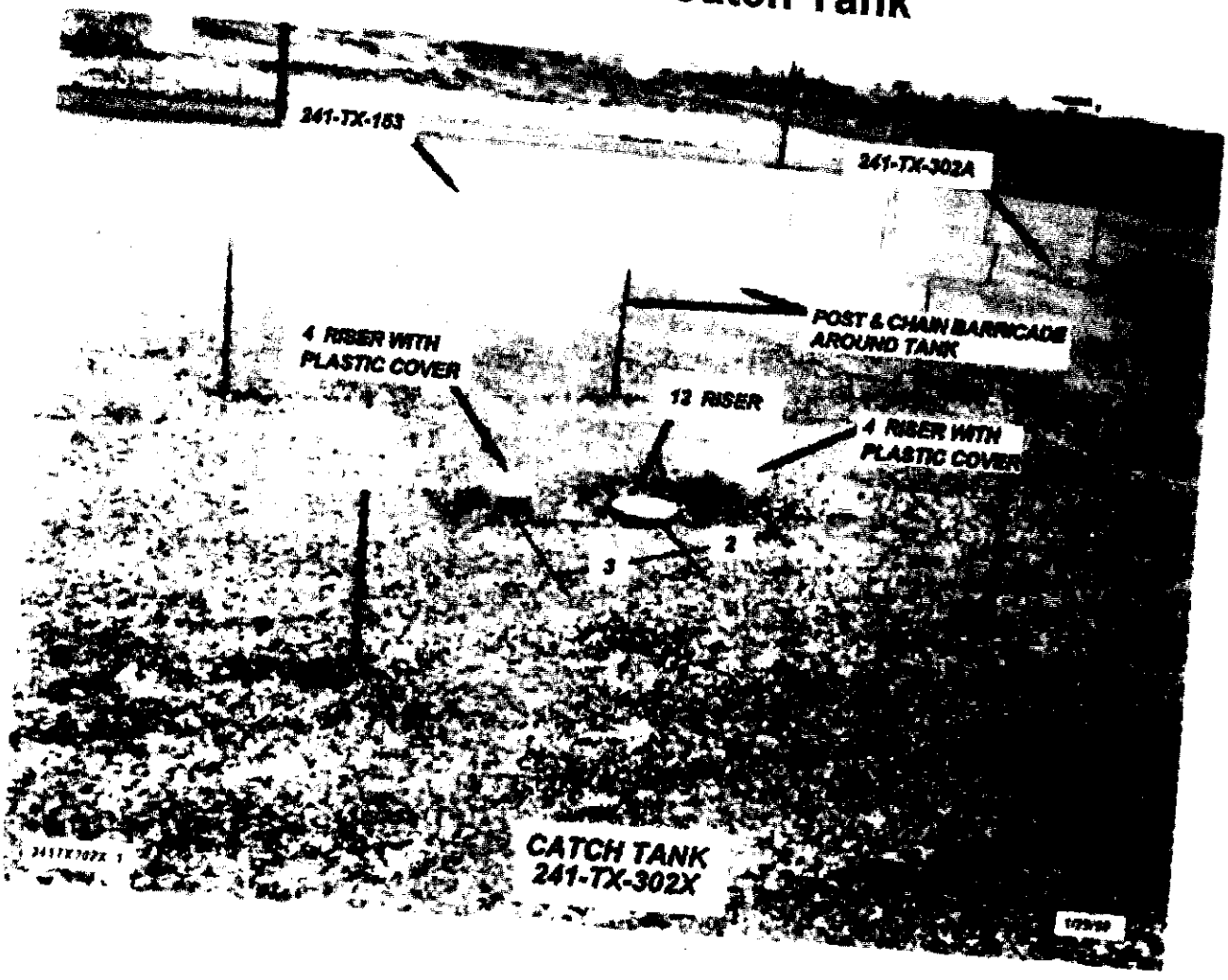
G01090041.8

241-TX-302A Catch Tank



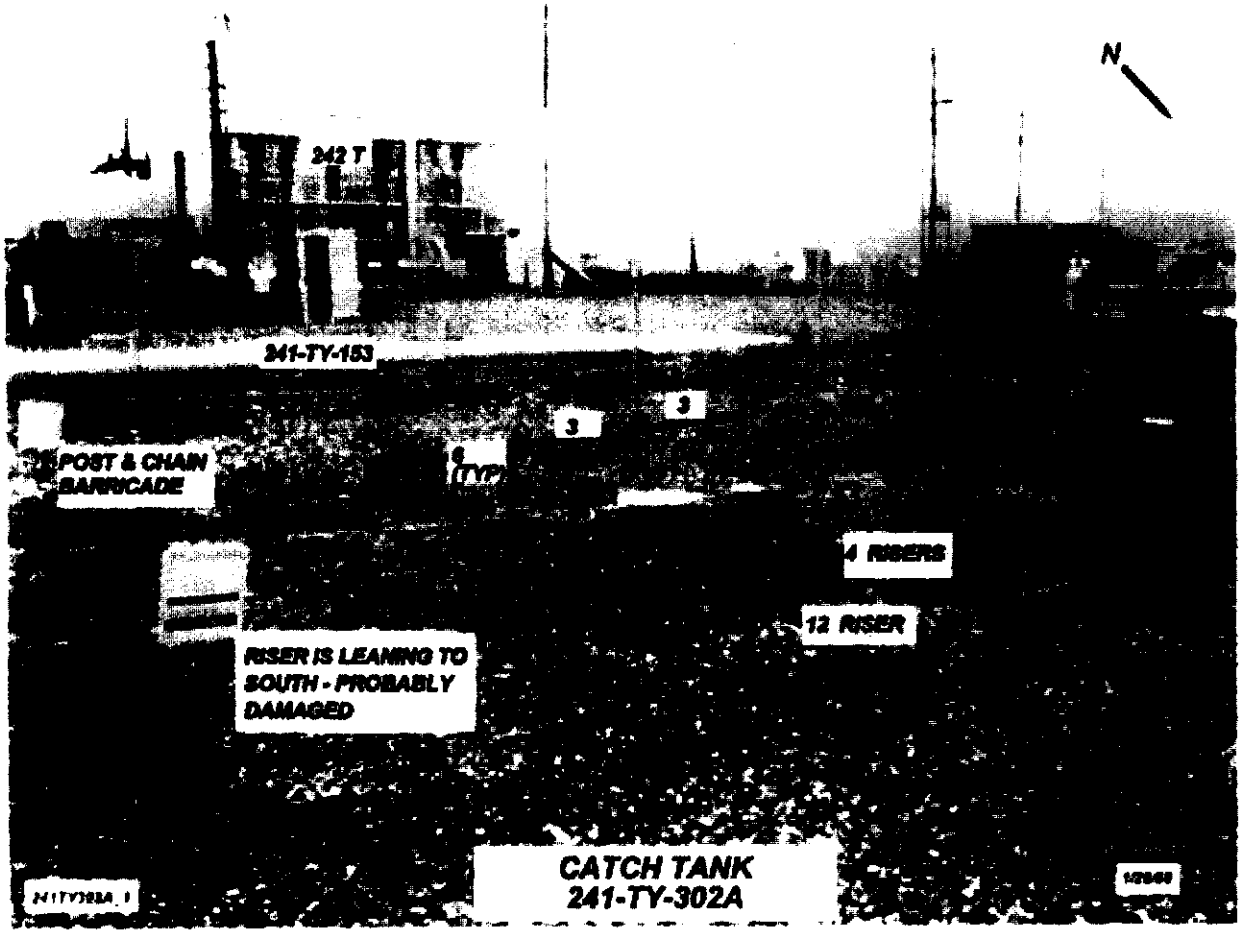
G01090041.9

241-TX-302X Catch Tank



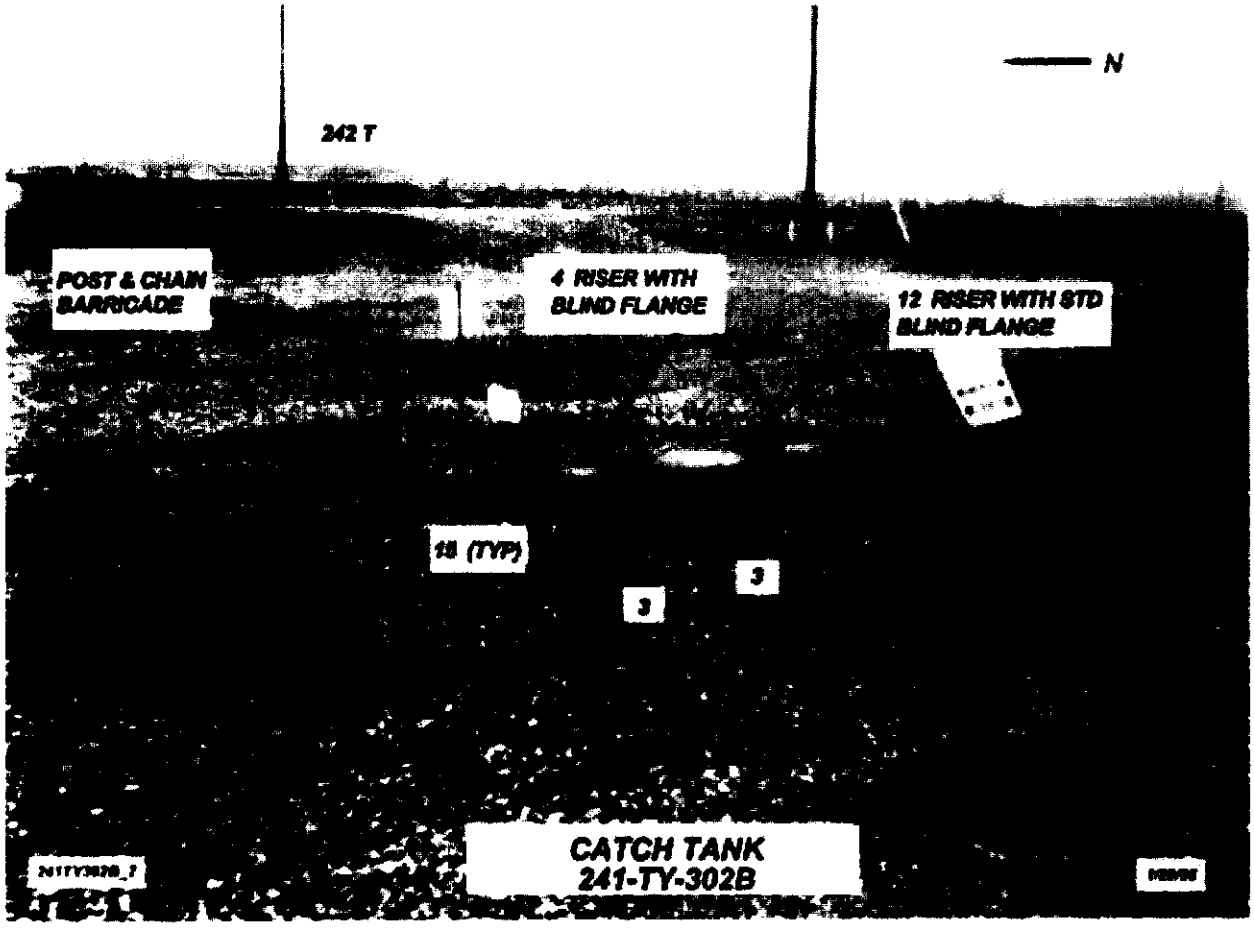
G01090041.10

241-TY-302A Catch Tank



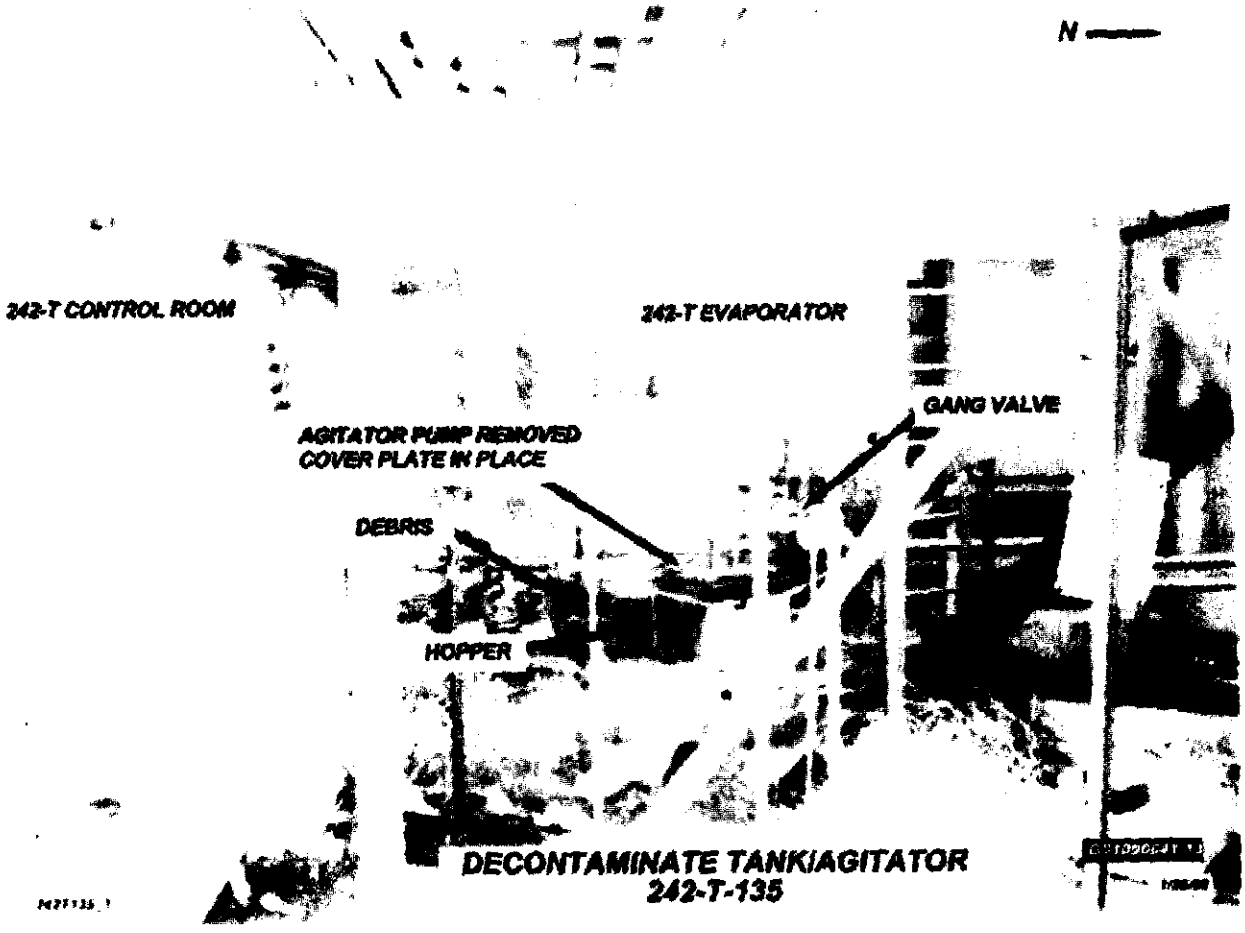
G01090041.11

241-TY-302B Catch Tank



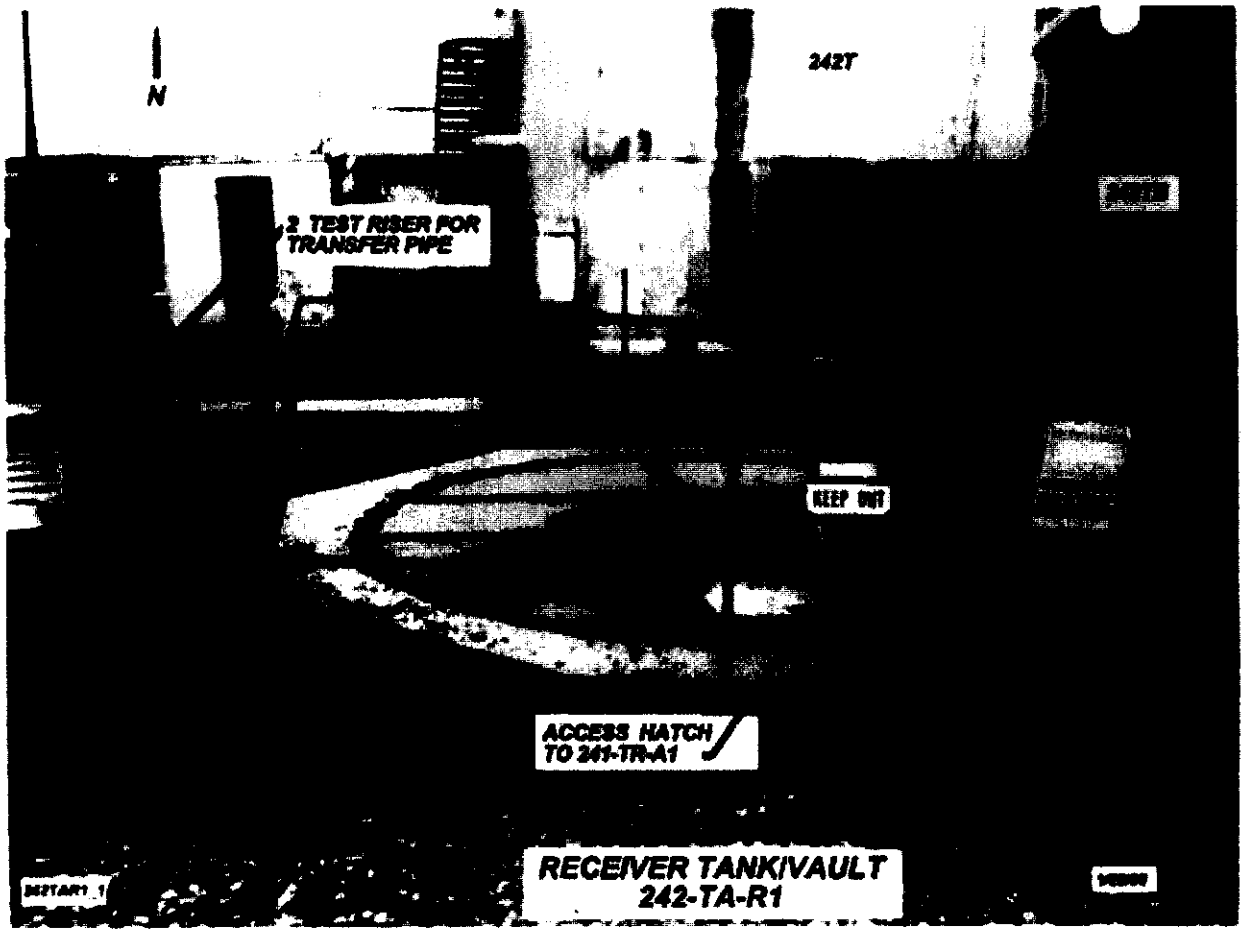
G01090041.12

242-T-135 Decon Tank



G01090041.13

242-TA-R1 Receiver Tank



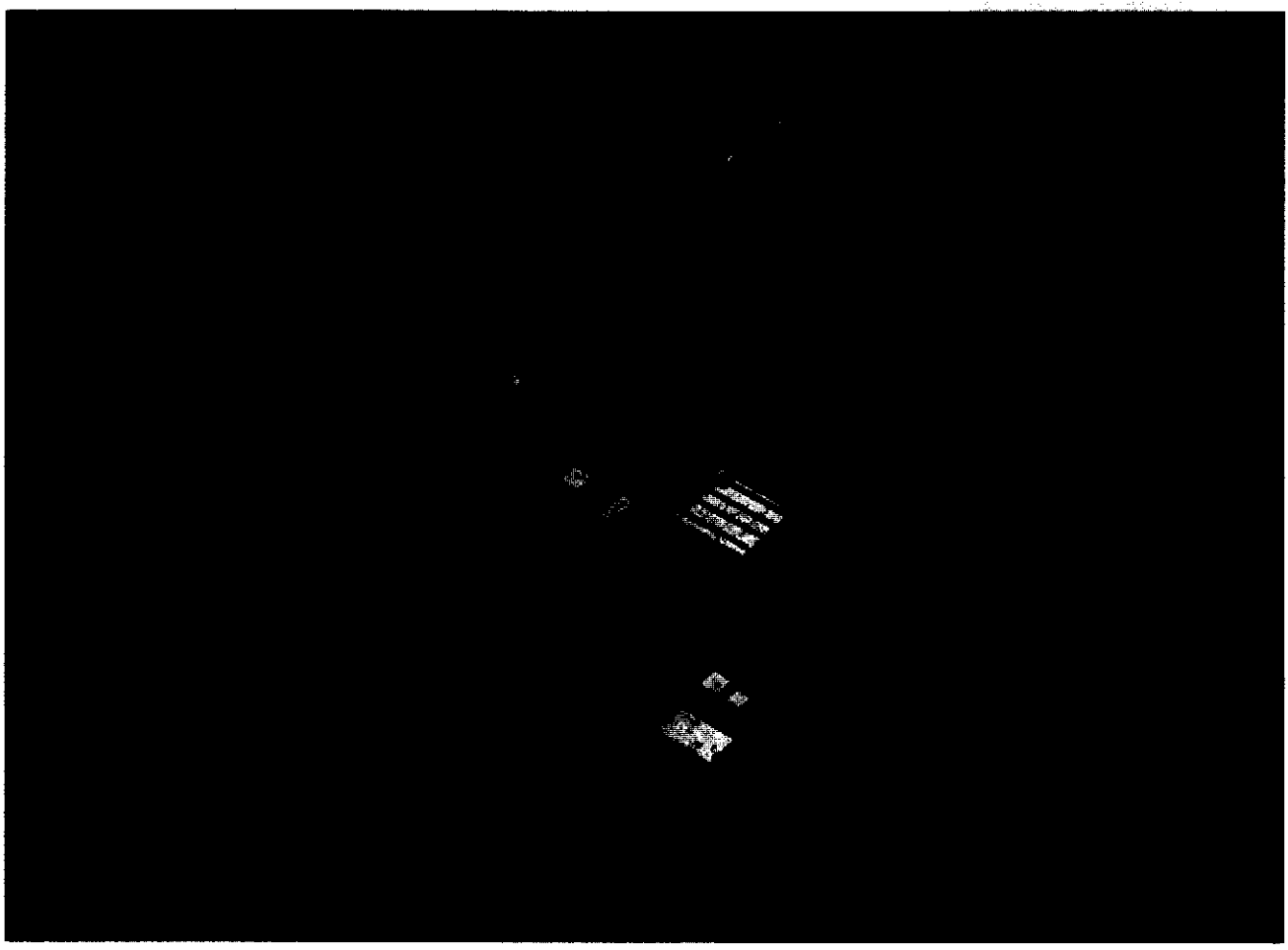
G01090041.16

242-S Evaporator

46°33'20"
119°37'44"

99060223-28CN
(PHOTO TAKEN 2000)

242-T Evaporator



46°33'36"
119°37'43"

99060223-34CN
(PHOTO TAKEN 2000)

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS
		Approved 12/06/01

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

**FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)*
**The date construction of the Hanford Facility commenced.*

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☒ 1. FACILITY HAS AN INTERIM STATUS PERMIT ☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES

A. PROCESS CODE - Enter the code from the list of process codes below that best describes each process to be used at the facility. Ten lines are provided for entering codes. If more lines are needed, enter the code(s) in the space provided. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).

B. PROCESS DESIGN CAPACITY - For each code entered in column A enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			**Treatment:**		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRE-FEET *(the volume that would cover one acre to a depth of one foot)* OR HECTARE-METER	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided: Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
LAND APPLICATION	D82	ACRES OR HECTARES			
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS			

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING SECTION III (shown in line numbers X-1 and X-2 below): A facility has two storage tanks; one tank can hold 200 gallons and the other can hold 400 gallons. The facility also has an incinerator that can burn up to 20 gallons per hour.

LINE NUMBER	A. PROCESS CODE *(from list above)*	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*	
X-1	*S02*	*600*	*G*	
X-2	*T03*	*20*	*E*	
1	S99	4,540	L	
2				
3				
4				
5				
6				
7				
8				
9				
10				

C. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "T04"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

WESF was constructed on the west end of B Plant in 1974 to encapsulate and store cesium chloride and strontium fluoride salts that had been separated from Hanford's high-level radioactive tank waste. WESF had stored the encapsulated salts since operations began in 1974 and initiated mixed waste management activities on July 14, 1997. The waste is stored in stainless steel capsules whose maximum outer height is approximately 53 centimeters (~21 inches) and maximum diameter is approximately 8 centimeters (~3 inches). WESF is a two-story, 20,000 square-foot building 157 feet-long and 40 feet high. It is constructed of steel reinforced concrete. It is partitioned into seven hot cells, the hot cell service area, operating areas, building service areas, and the pool cell area.

The seven hot cells are labeled A through G and activities within the hot cells are performed remotely using manipulators. Waste and drum load out is performed in hot cell A. Hot cells B through E were used to convert strontium nitrate and cesium carbonate into strontium fluoride and cesium chloride salts. Only hot cells F and G will remain active for cesium/strontium capsule storage. The hot cell service area is located on the south side of the hot cells and is used for access into hot cells A and G. The operating areas and other building service areas associated with the hot cells provide areas for instrumentation monitoring, utility support, or manipulator repair as required.

The pool cell area consists of 12 pools lined with stainless steel. Pools 9, 10, and 11 are outside the TSD unit boundary. Pool cells 1 through 8 and 12 can be used for capsule storage and are filled with water to a depth of approximately 13 feet. Each pool is equipped with a monitoring system to detect any leakage from capsules. The water cools the cesium/strontium capsules and provides radiation shielding. Pool cell 12 is used to move capsules from hot cell G and from pool cell to pool cell.

The maximum process design capacity for miscellaneous storage in pool cells 1 through 8 and 12 is approximately 4,484 liters (~1,185 gallons) and for Process cells A through G is approxiamtely 56 liters (~15 gallons).

The total maximum process design capacity for miscellaneous storage in the pool cells and process cells is approximately 4,540 liters (~1,200 gallons).

IV. DESCRIPTION OF DANGEROUS WASTES

[illegible] - Enter the four digit number from Chapter [illegible] WAC for each listed dangerous [illegible]. If you handle [illegible] Chapter 173-303 WAC, enter the four digit number(s) that describe [illegible] the toxic [illegible]

[illegible] the quantity of [illegible] entered in column A, estimate the [illegible] quantity of all the non-listed waste(s) that will be handled which [illegible] or contaminant.

C. [illegible] - For each quantity entered in column B enter the unit of measure code. Units of measuer which must be used and the appropriate [illegible]

[illegible] UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
[illegible]NDS	P	KILOGRAMS	K
[illegible]	T	METRIC TONS	M

[illegible] use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

[illegible] dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in [illegible] how the waste will be stored, treated, and/or disposed of at the facility.

[illegible] For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes [illegible] processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that [illegible] characteristic or toxic contaminant.

[illegible] are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the [illegible] Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

[illegible] DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more [illegible] as follows:

1. [illegible] and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual [illegible] processes to be used to treat, store, and/or dispose of the waste.

2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter [illegible] on that line.

3. [illegible] step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

[illegible] (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated [illegible] leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES 1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	[illegible]	900	P	T03	D80			
X-2	D002	400	P	T03	D80			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			Included with above
1	D005	5,000	K	S99				Other Storage - Misc Storage
2	D006		↓	↓				↓
3	D007		↓	↓				↓
4	D008		↓	↓				↓
5	D011		↓	↓				↓
6	WT01		↓	↓				Included With Above
7								
8								
9								
10								

E. USE THIS SPACE TO LIST ADDITIONAL PROCESS CODES FROM SECTION D(1) ON PAGE 3.

V. FACILITY DRAWING **Refer to attached drawing(s).**

All existing facilities must include in the space provided on page 5 a scale drawing of the facility *(see instructions for more detail)*.

VI. PHOTOGRAPHS **Refer to attached photograph(s).**

All existing facilities must include photographs *(aerial or ground-level)* that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas *(see instructions for more detail)*.

VII. FACILITY GEOGRAPHIC LOCATION **This information is provided on the attached drawing(s) and photograph(s).**

LATITUDE *(degrees, minutes, & seconds)*					LONGITUDE *(degrees, minutes, & seconds)*				

VIII. FACILITY OWNER

☒ A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

☐ B. If the facility owner is not the facility operator as listed in Section VII on Form 1, complete the following items:

1. NAME OF FACILITY'S LEGAL OWNER			2. PHONE NO. *(area code & no.)*
3. STREET OR P.O. BOX	**4. CITY OR TOWN**	**5. ST.**	**6. ZIP CODE**

IX. OWNER CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	Keith A. Klein	10/03/2001

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

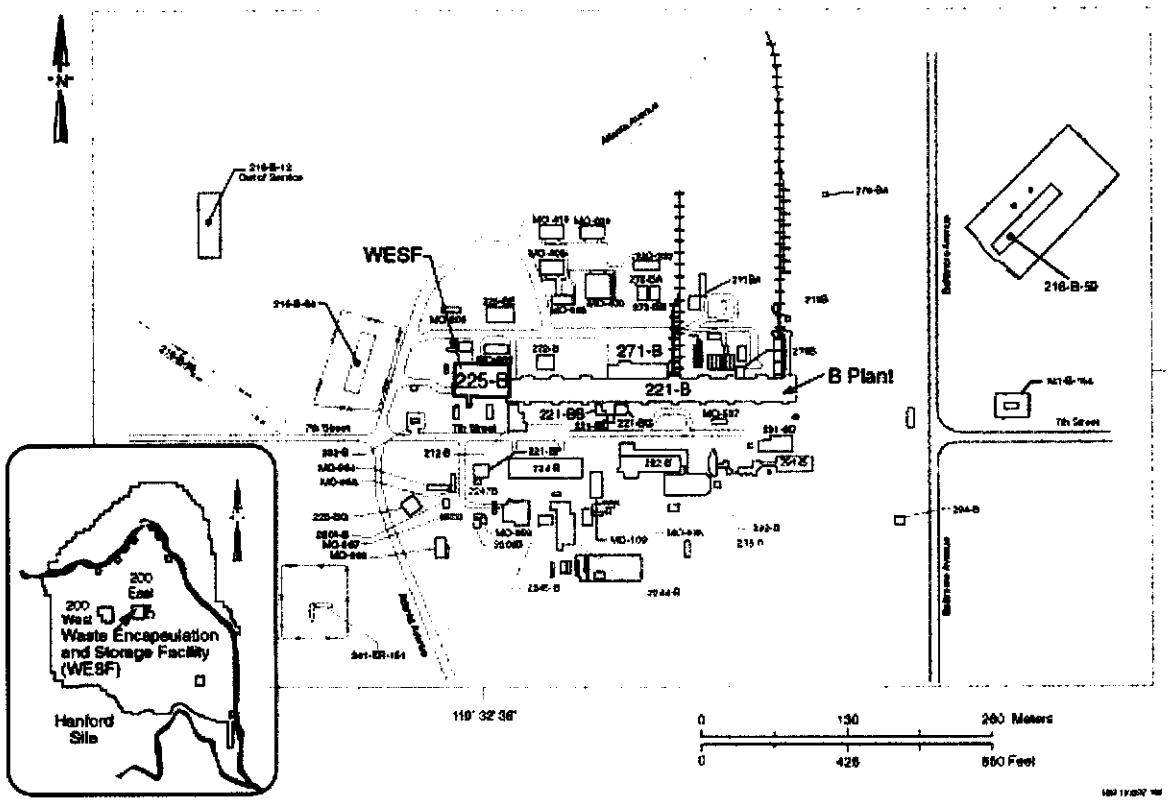
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

10/3/01
Date

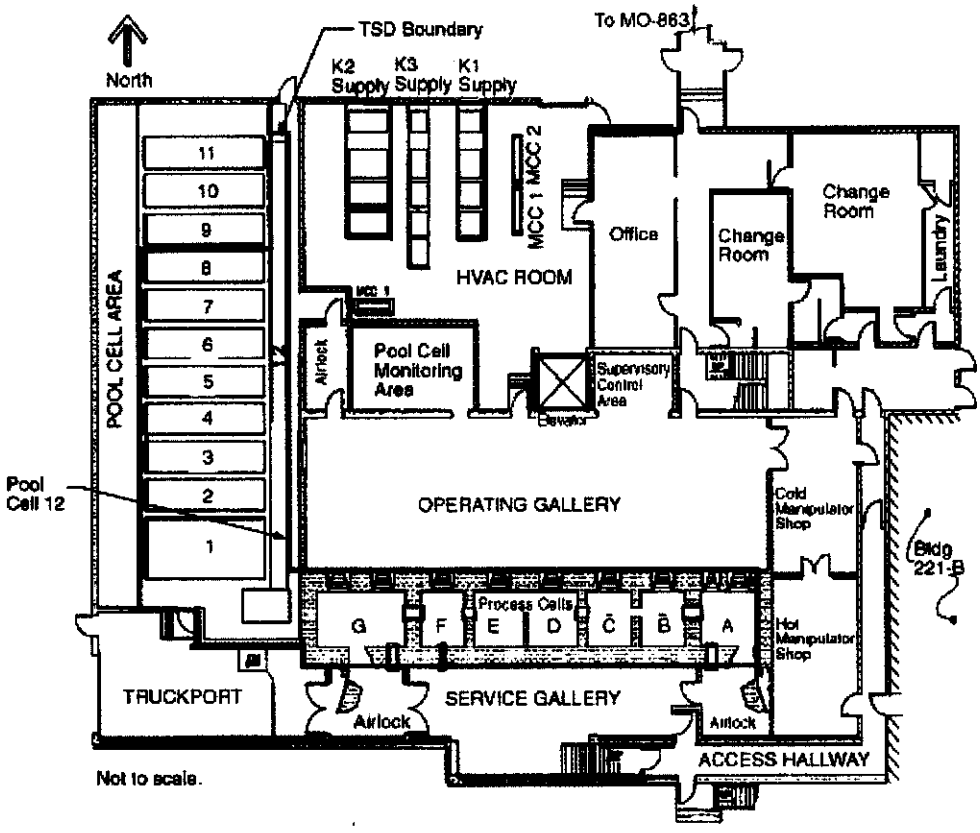
D. B. Van Leuven
Co-Operator
E. Keith Thomson,
President and Chief Executive Officer
Fluor Hanford

9/7/01
Date

Waste Encapsulation and Storage Facility Site Plan



H97110237.1



H97110237.2W

Waste Encapsulation and Storage Facility Pool and Process Cells (not to scale)

H97110237.2

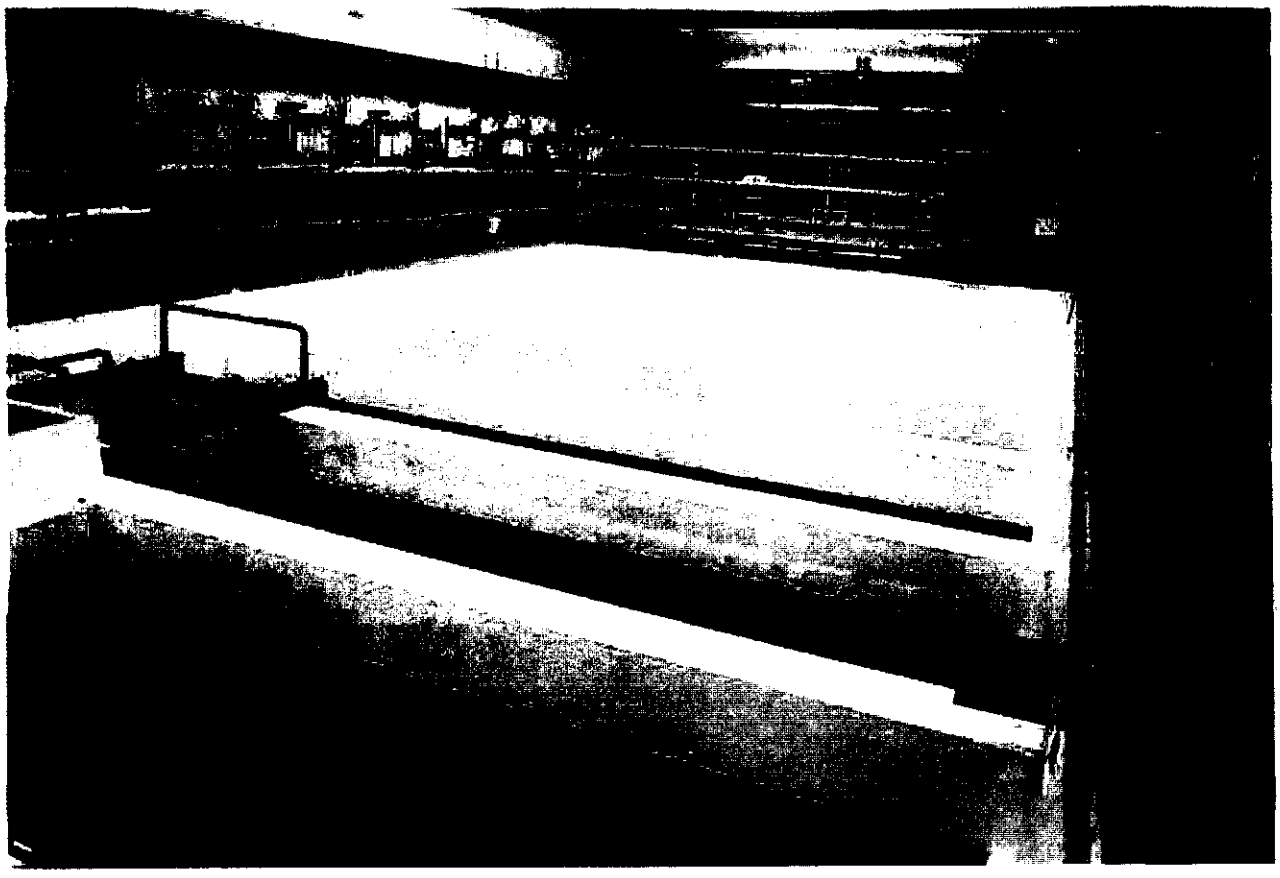
WASTE ENCAPSULATION AND STORAGE FACILITY

225-B BUILDING

46°33'27"
119°32'36"

97110265-14CN
(PHOTO TAKEN 1997)

WASTE ENCAPSULATION AND STORAGE FACILITY

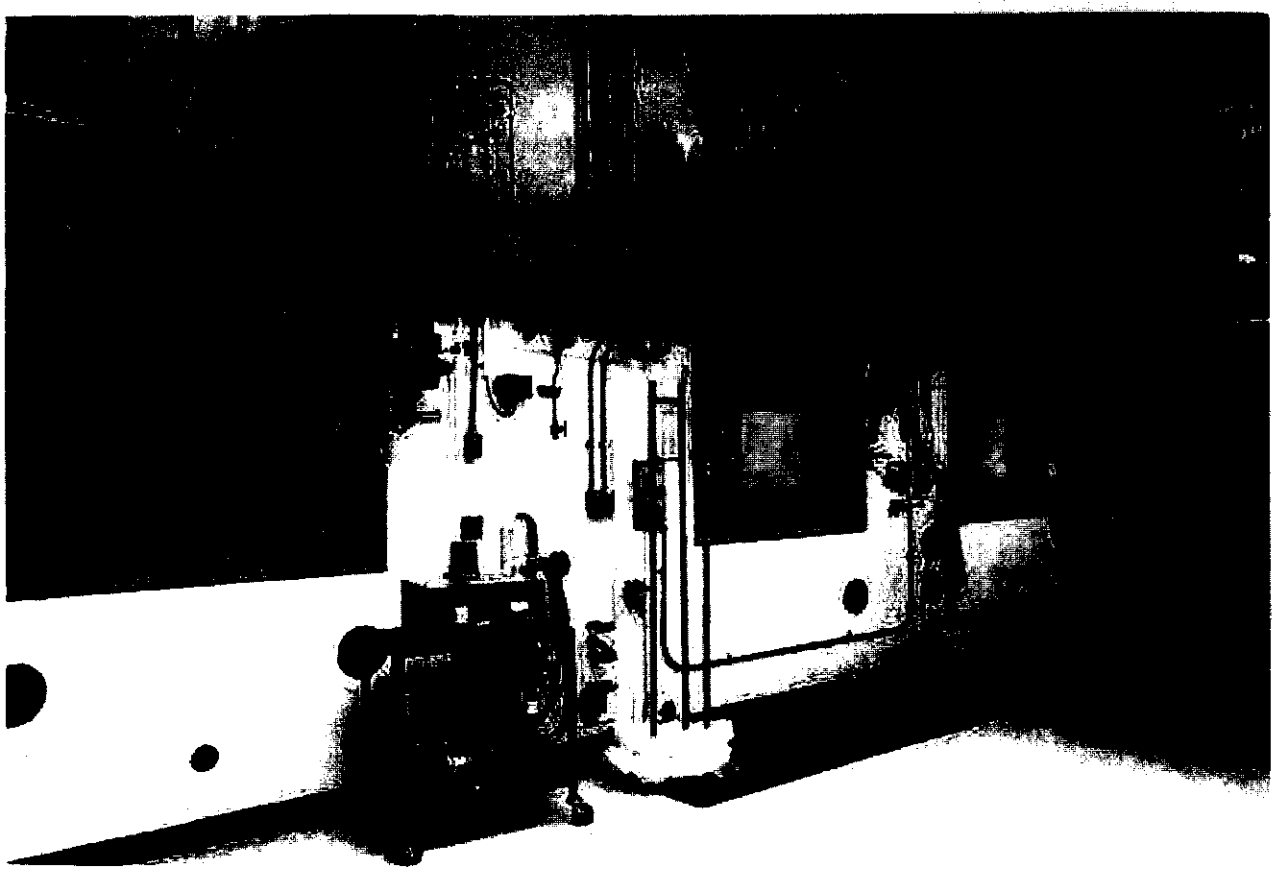


POOL CELLS

46°33'27"
119°32'36"

97110265-8CN
(PHOTO TAKEN 1997)

WASTE ENCAPSULATION AND STORAGE FACILITY



PROCESS CELLS

46°33'27"
119°32'36"

97110265-2CN
(PHOTO TAKEN 1997)

Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

CONTENTS

DISCLAIMER

This information has been formatted to be Internet viewable and is a facsimile of the official information. Copies of the official information are available in the Hanford Public Information Repositories.

Please print or type in the unshaded areas only
(fill-in areas are spaced for elite type, i.e. 12 character/inch).

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/STATE I.D. NUMBER: W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS
		CLEAN CLOSED, 09/05/01

II. FIRST OR REVISED APPLICATION

Place an "X" in the appropriate box in A or B below (mark one box only) to indicate whether this is the first application you are submitting for your facility or a revised application. If this is your first application and you already know your facility's EPA/STATE I.D. Number, or if this is a revised application, enter your facility's EPA/STATE I.D. Number in Section I above.

A. FIRST APPLICATION (place an "X" below and provide the appropriate date)

☐ 1. EXISTING FACILITY *(See instructions for definition of "existing" facility. Complete item below.)*

MO.	DAY	YEAR
03	22	1943

***FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)*
**The date construction of the Hanford Facility commenced.*

☐ 2. NEW FACILITY *(Complete item below)*

MO.	DAY	YEAR

FOR NEW FACILITIES, PROVIDE THE DATE, *(mo., day, & yr.)* OPERATION BEGAN OR IS EXPECTED TO BEGIN

B. REVISED APPLICATION *(place an "X" below and complete Section I above)*

☐ 1. FACILITY HAS AN INTERIM STATUS PERMIT
☒ 2. FACILITY HAS A FINAL PERMIT

III. PROCESS - CODES AND CAPACITIES

[illegible] *below that best describes each process to be used at the facility.* [illegible] *enter the code(s) in the space provided. If a process will be used that is not included in the* [illegible] *in the space provided on the (Section III-C).*

[illegible] *For each code entered in column A enter the capacity of the process.*

[illegible]

[illegible] *For each amount entered in column B(1), enter the code from the list of unit measure codes* [illegible] *below should be used.*

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
[illegible]		
[illegible]	S01	GALLONS OR LITERS
[illegible]	S02	GALLONS OR LITERS
[illegible]	S03	CUBIC YARDS OR CUBIC METERS
[illegible] IMPOUNDMENT	S04	GALLONS OR LITERS
[illegible]		
INJECTION WELL	D80	GALLONS OR LITERS
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER
LAND APPLICATION	D82	ACRES OR HECTARES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROCESS CODE	[illegible]
Treatment:		
TANK	T01	[illegible]
SURFACE IMPOUNDMENT	T02	[illegible]
INCINERATOR	T03	[illegible]
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided: Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		