Dangerous Waste Permit Application
88-21 Part A

DOE/RL-88-21
Contents

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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4.2.1.15	Plutonium Finishing Plant Treatment Unit	1	04/10/2000	06/09/00

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[redacted]				
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[redacted]				
4.2.2.5	PUREX Storage Tunnels	5	09/26/1996	10/16/96
4.2.2.6	224-T Transuranic Waste Storage and Assay Facility	6	09/26/1996	11/06/96
4.2.2.7	Central Waste Complex	6	06/28/1999	Pending
4.2.2.7	Central Waste Complex	4	09/26/1996	02/18/97
4.2.2.8	Single-Shell Tank System	6	12/21/1999	Pending
4.2.2.9	207-A South Retention Basin	2	09/26/1996	Pending
4.2.2.10	Liquid Effluent Retention Facility	6	05/22/1998	05/18/99
4.2.2.11	241-CX Tank System	3	06/30/1994	Pending
4.2.2.12	Waste Encapsulation and Storage Facility	1	07/13/2000	08/25/00
4.2.2.13	IHLW Interim Storage Unit	0	06/28/1999	07/28/99

4.2.3 Disposal Facilities

4.2.3.1	Low-Level Burial Grounds	11	12/23/1998	Denied
4.2.3.2	216-S-10 Pond and Ditch	3	06/30/1994	Pending
[redacted]				
4.2.3.4	216-A-29 Ditch	3	06/30/1994	Pending
4.2.3.5	216-B-3 Main Pond	6	03/30/2000	Pending
4.2.3.6	216-B-63 Trench	3	09/26/1996	Pending
4.2.3.7	216-A-10 Crib	3	06/30/1994	Pending
4.2.3.8	216-U-12 Crib	3	06/30/1994	Pending
4.2.3.9	216-A-36B Crib	1	06/30/1994	Pending
4.2.3.10	216-A-37-1 Crib	2	06/30/1994	Pending
[redacted]				

CLEAN CLOSED
07/31/95

4.3 300 AREA FACILITIES

4.3.1 Treatment Facilities

4.3.1.1	327-B Acid Neutralization Treatment System, 300 Area CLEAN CLOSED 08/02/95	4	06/06/1991	08/02/95
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4.3.1.3	304 Generation Facility CLEAN CLOSED 1/9/1996	4	06/6/1990	01/23/96
4.3.1.4	300 Area Solvent Evaporator CLEAN CLOSED 07/31/95	4	06/27/1990	07/31/95
4.3.1.5	300 Area Waste Acid Treatment System	5	09/26/1996	Pending
4.3.1.6	303-M Oxide Facility	1	09/26/1996	Pending
4.3.1.7	325 Hazardous Waste Treatment Units	4A	06/29/2000	08/18/00
4.3.1.8	Biological Treatment Test Facility CLOSED 02/10/96	0	05/19/1988	02/10/96
4.3.1.9	Physical and Chemical Treatment Test Facility CLOSED 05/13/96	1	08/16/1991	05/13/96
4.3.1.10	Thermal Treatment Test Facilities CLOSED 05/13/96	0	05/19/1988	05/13/96

4.3.2 Storage Facilities

4.3.2.1	311 Tanks	1	11/16/1987	Pending
4.3.2.2	303-K Storage Facility	5	09/26/1996	02/25/98
4.3.2.3	305-B Storage Facility	1	12/20/1990	09/27/94
4.3.2.4	308 Storage Facility CLOSED 06/24/97	0	05/19/1988	06/24/97

4.3.3 Disposal Facilities

4.3.3.1	300 Area Process Trenches	4	05/25/1995	Pending

4.4 400 AREA FACILITIES

4.4.1 Treatment Facilities

4.4.1.1	437 Maintenance and Storage Facility	3	09/26/1996	Pending

4.4.2 Storage Facilities

[redacted]

4.4.2.2	Sodium Storage Facility and Sodium Reaction Facility	1	09/26/1996	Pending

4.5 600 AREA FACILITIES

4.5.1 Treatment Facilities

[redacted]

4.5.2 Storage Facilities

4.5.2.1	616 Nonradioactive Dangerous Waste Storage Facility	7	03/04/1997	02/25/98
4.5.2.2	600 Area Purgewater Storage and Treatment Facility	3	09/11/1998	Pending

4.5.3 Disposal Facilities

4.5.3.1	Nonradioactive Dangerous Waste Landfill	4	06/30/1994	Pending

4.6 3000 AREA FACILITIES

4.6.1 Treatment Facilities

[redacted]

DISCLAIMER

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

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

1.0 INTRODUCTION

The Hanford Facility, located in southeastern Washington State, is owned by the U.S. Government and operated by the U.S. Department of Energy, Richland Operations Office. Dangerous waste and mixed waste (containing both dangerous and radioactive components) are generated and managed on the Hanford Facility. Waste components are regulated in accordance with the *Resource Conservation and Recovery Act of 1976*, the *Hazardous and Solid Waste Amendments of 1984*, and/or the *State of Washington Hazardous Waste Management Act of 1976* (as administered through the Washington State Department of Ecology (Ecology) *Dangerous Waste Regulations*, Washington Administrative Code 173-303); or the *Atomic Energy Act of 1954*.

For the purposes of the *Resource Conservation and Recovery Act* and the Washington State *Dangerous Waste Regulations*, the Hanford Site is considered to be a single facility. The single dangerous waste permit identification number issued to the Hanford Site by the U.S. Environmental Protection Agency and the Washington State Department of Ecology is U.S Environmental Protection Agency/State Identification Number WA7890008967. This identification number encompasses over 60 treatment, storage, and/or disposal (TSD) units within the Hanford Site, hereinafter referred to as the Hanford Facility when cited in the context of the *Resource Conservation and Recovery Act* and the Washington State *Dangerous Waste Regulations*.

The current *Hanford Facility Dangerous Waste Part A Permit Application* consists of four "Dangerous Waste Permit General Information, Form 1s" and over 60 "Dangerous Waste Permit Application, Form 3s". For purposes of the *Hanford Facility Dangerous Waste Permit Application*, the U.S. Department of Energy's contractors are identified as the 'co-operators' and sign in that capacity [refer to (Hanford Facility RCRA Permit) Condition 1.A.2 of the Dangerous Waste portion of the Hanford Facility Resource Conservation and Recovery Act permit]. Any identification of these contractors as an 'operator' elsewhere in the application is not meant to conflict with the contractor's designation as co-operators but rather is based on the contractors' contractual status with the U.S. Deparment of Energy, Hanford Facility.

07/06/00: On the Table of Contents pages, a column has been included to denote the date when Ecology approved the Part A, Form 3, permit application and/or revision. The Table of Contents now can indicate both the latest approved and the latest submitted revision of any particular TSD Unit's Form 3. Additionally, Part 2.0 has been reconfigured to provide several summary reports based on the Form 3's. These reports provide the basis for information required by several Hanford Site annual reports.

DOE/RL-88-21
Permitting Status
07/00

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

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

This section contains summary reports reflecting the permitting status and capacities of TSD Units on the Hanford Facility.

2.1 Permitting Status for Dangerous Waste Treatment, Storage, And/Or Disposal Units
2.2 Process Code Report
2.3 Dangerous Waste Number Report [Under Development]
2.4 "One-Page" Report Format Required
- 2.4.1 "Original" One-Page Report
- 2.4.2 Document Type Report
- 2.4.3 Unit Type Report
- 2.4.4 Co-Op Report
- 2.4.5 Area Report
- 2.4.6 HF RCRA Permit Location Report

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
105-DR Large Sodium Fire Facility	BHI	100	TS	D	1, 12, 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
100-D Ponds	BHI	100	TD	D	8, 13	2, 3
200 Areas						
221-T Tank Farm	FH	200W	T	D	13	3
200 West Area Ash Pit Demolition Site	Other	200W	T	D	12, 15	2
218-E-8 Borrow Pit Demolition Site	Other	200E	T	D	12, 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	FH	200E	TS	M	1, 3, 4, 10	6, 7
222-S Laboratory Complex	FH	200W	TS	M	1, 2, 3, 4	1
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	S	M	12	2
4-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
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
216-S-10 Pond and Ditch	BHI	200W	D	M	8	2, 3
2101-M Pond	Other	200E	D	M	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	FH	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
216-B-5 Expansion Ponds	Other	200E	TD	M	7, 8, 15	2
300 Area						
3718-F Alkali Metal Treatment and Storage Area	FH	300	TS	M	1, 4, 13	2
324 Pilot Plant	PNNL	300	T	M	12, 15	8
304 Concretion Facility	Other	300	TS	M	1, 2, 13	2
300 Area Solvent Evaporator	Other	300	TS	M	1, 4, 13	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
Biological Treatment Test Facilities	PNNL	300	T	M	12, 15	8
Physical and Chemical Treatment Test Facilities	PNNL	300	TS	M	1, 2, 15	8
Thermal Treatment Test Facilities	PNNL	300	T	M	12, 15	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
2 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 Sites	Other	600	D	D	13, 15	2
616 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			Submitted Document Type	Date	Doc #	Rev	RCRA Permit Location	Date closed
	Initial	Latest	Rev.						
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	
105-DR Large Sodium Fire Facility	11/01/85	5/10/98	4	Closure Plan	03/01/95	DOE/RL-90-25	2	Part 5, Chapter 10	Partial
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									
224-T Test Facility	11/01/85	9/26/96	3						02/23/00
200 West Area Ash Pit Demolition Site	11/01/85	11/06/94	4	Closure Plan	10/06/94	DOE/RL-92-44	1	Part 5, Chapter 3	10/26/95
218-E-8 Borrow Pit Demolition Site	11/01/85	11/06/94	4	Closure Plan	10/21/94	DOE/RL-92-55	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	12/23/98	7	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	12/23/98	7	Part B	12/21/91	DOE/RL-91-27	0		
222-S Laboratory Complex	11/25/87	8/30/00	8	Part B	12/21/91	DOE/RL-91-27	0		
4-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	5/22/98	2	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						
27-S Storage Facility	11/1/85	11/16/87	2	Closure Plan	10/07/92	DOE/RL-88-27	3A	Part 3, Chapter 3	06/27/95
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		
2727-WA SRF Sodium Storage Building	12/1/87	9/26/96	1						02/22/99
PUREX Storage Tunnels	12/1/87	9/26/96	5	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		
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						
ste Encapsulation and Storage Facility	12/19/97	7/13/00	1						
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		

216-S-10 Pond and Ditch	02/01/87	6/30/94	3						
2101-M Pond	08/01/86	11/16/87	2	Closure Plan	07/01/94	DOE/RL-88-41	2A	Part 5, Chapter 7	10/26/95
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	9/26/96	3						
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						
216-B-3 Expansion Ponds	12/16/93	12/16/93	0	Closure Plan	10/31/94	DOE/RL-89-28	2	Part 5, Chapter 8	06/27/96
300 Area									
3718-F Alkali Metal Treatment and Storage Area	11/01/85	9/26/96	4	Closure Plan	11/20/95	DOE/RL-92-35	2	Part 5, Chapter 12	08/04/98
324 Pilot Plant	11/01/85	5/19/88	3						06/09/97
304 Concretion Facility	08/01/86	6/21/90	4	Closure Plan	11/30/93	DOE/RL-90-09	2	Part 5, Chapter 13	01/26/96
300 Area Solvent Evaporator	11/01/85	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						
340 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	
Biological Treatment Test Facilities	5/19/88	5/19/88	0						12/10/96
Physical and Chemical Treatment Test Facilities	05/19/88	8/13/91	1						4/19/96
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						
4843 Alkali Metal Storage Facility	09/01/87	9/26/96	3	Closure Plan	09/30/95	DOE/RL-90-42	1	Part 5, Chapter 12	04/14/97
Sodium Storage Facility and Sodium Reaction Facility	05/01/95	9/26/96	1						
600 Area									

Hanford Patrol Academy Demolition Sites	11/01/85	12/15/94	4	Closure Plan	12/15/94	DOE/RL-93-39	1	Part 3, Chapter 9	10/26/95
616 Nonradioactive Dangerous Waste Storage Facility	11/01/85	3/4/97	7	Part B	10/31/91	DOE/RL-89-03	2	Part 3, Chapter 1	
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									
Simulated High-Level Waste Slurry Treatment/Storage	05/19/88	8/12/94	4	Closure Plan	3/10/94	DOE/RL-88-08	6A	Part 3, Chapter 4	09/06/95

[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: Sep 26 2000 9:52AM
Return to the Hanford home page.

Designed By LMSI WEB TEAM
Maintained by FH

2.2 Process Code Report

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

1 - *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	16,352,580.16 liters per day
1325-N Liquid Waste Disposal Facility*	7	4,320,000.00 gallons per day	16,352,580.16 liters per day
216-A-10 Crib*	5	72,000.00 gallons per day	272,549.67 liters per day
216-A-36B Crib*	5	116,000.00 gallons per day	439,107.80 liters per day
216-A-37-1 Crib*	5	86,400.00 gallons per day	327,059.60 liters per day
216-U-12 Crib*	5	50,000.00 gallons per day	189,270.68 liters per day
Grout Treatment Facility*	0	184.84 acre-feet	22.80 hectare-meters
Low-Level Burial Grounds*	11	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
7 not permitted unit(s)		324,400.00 gallons per day 1,600.47 acre-feet	1,227,987.68 liters per day 197.42 hectare-meters
2 permitted unit(s)		8,640,000.00 gallons per day 0.00 acre-feet	32,705,960.31 liters per day 0.00 hectare-meters

D84 - *Disposal - Surface Impoundment*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
1-D Ponds	4	19,600,000.00 gallons	74,194,076.63 liters
1324-NA Percolation Pond	3	1,000,000.00 gallons	3,785,412.07 liters
2101-M Pond	2	18,750.00 gallons	70,966.48 liters
216-A-29 Ditch*	3	6,000,000.00 gallons	22,712,472.44 liters
216-B-2 Expansion Ponds	0	27,960,000.00 gallons	105,840,021.26 liters
216-B-3 Main Pond*	6	840,000.00 gallons	3,179,746.14 liters
216-B-63 Trench*	3	199,999.33 gallons	757,080.00 liters
216-S-10 Pond and Ditch*	3	150,000.00 gallons	567,812.81 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
4 not permitted unit(s)		7,189,999.33 gallons 0.00 gallons per day	27,217,110.39 liters 0.00 liters per day
5 permitted unit(s)		48,578,750.00 gallons 2,999,989.93 gallons per day	183,890,586.75 liters 11,356,200.00 liters per day

S01 - *Storage - Container*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units

105-DR Large Sodium Burn Facility	4	5,283.44 gallons	20,000.00 liters
200 Area Effluent Treatment Facility	3	38,999.71 gallons	147,630.00 liters
222-S Laboratory Complex*	7	7,137.93 gallons	27,020.00 liters
224-T Transuranic Waste Storage and Assay Facility*	6	109,999.89 gallons	416,395.00 liters
2[illegible]-S Storage Facility	2	27,000.00 gallons	102,206.13 liters
272-WA SRB Sodium Storage Building	1	34,999.88 gallons	132,489.00 liters
300 Area Solvent Evaporator	4	220.00 gallons	832.79 liters
303-K Storage Facility	5	11,000.12 gallons	41,640.00 liters
304 Concretion Facility	4	1,100.00 gallons	4,163.95 liters
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
332 Storage Facility	0	1,800.00 gallons	6,813.74 liters
3718-F Alkali Metal Treatment and Storage Area	4	528.34 gallons	2,000.00 liters
4843 Alkali Metal Storage Facility	3	21,999.98 gallons	83,279.00 liters
616 Nonradioactive Dangerous Waste Storage Facility	7	28,634.92 gallons	108,395.00 liters
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*	11	2,641,719.88 gallons	10,000,000.00 liters
Physical and Chemical Treatment Test Facilities	1	110.00 gallons	416.40 liters
Plutonium Finishing Plant Treatment and Storage Unit*	2	8,778.96 gallons	33,232.00 liters
Simulated High-Level Waste Slurry Treatment /Storage	2	20,000.00 gallons	75,708.24 liters
[illegible]ant Complex*	7	249,999.69 gallons	946,352.00 liters
Waste Receiving and Processing Facility*	2	19,416.64 gallons	73,500.00 liters
25 unit(s) total		9,718,374.98 gallons	36,788,060.09 liters
10 not permitted unit(s)		9,494,056.86 gallons	35,938,923.48 liters
15 permitted unit(s)		224,318.12 gallons	849,136.61 liters

S02 - *Storage - Tank*	Rev	Process Design Capacity English Units	Process Design Capacity 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	[illegible] liters
200 Area Effluent Treatment Facility	3	2,009,993.25 gallons	[illegible] liters
222-S Laboratory Complex*	7	9,827.20 gallons	[illegible] liters
241-CX Tank System*	2	33,900.00 gallons	[illegible] liters
241-Z Treatment and Storage Tank*	6	18,407.12 gallons	[illegible] liters
242-A Evaporator	2	43,066.93 gallons	[illegible] 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	32,930,227.03 gallons	124,654,500.00 liters
[illegible] Treatment Facility*	6	799.91 gallons	3,028.00 liters
Hanford Waste Vitrification Plant*	6	109,988.03 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*	6	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*	7	77,399.75 gallons	292,990.00 liters
21 unit(s) total		130,640,197.19 gallons	494,527,061.38 liters
17 not permitted unit(s)		126,414,815.29 gallons	478,532,248.42 liters
4 permitted unit(s)		4,225,381.90 gallons	15,994,812.96 liters

S03 - *Storage - Waste Pile*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
Single Shell Tank System*	6	0.14 cubic yards	0.11 cubic meters
1 unit(s) total		0.14 cubic yards	0.11 cubic meters
1 not permitted unit(s)		0.14 cubic yards	0.11 cubic meters
0 permitted unit(s)		0.00 cubic yards	0.00 cubic meters

S04 - *Storage - Surface Impoundment*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
207-A South Retention Basin*	2	210,000.09 gallons	794,937.00 liters
Liquid Effluent Retention Facility*	8	23,379,220.92 gallons	88,500,000.00 liters
2 unit(s) total		23,589,221.01 gallons	89,294,937.00 liters
1 not permitted unit(s)		210,000.09 gallons	794,937.00 liters
1 permitted unit(s)		23,379,220.92 gallons	88,500,000.00 liters

S05 - *Storage - Miscellaneous Unit*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
PUREX Storage Tunnels	9	31,399.97 cubic yards	24,007.00 cubic meters
1 unit(s) total		31,399.97 cubic yards	24,007.00 cubic meters
0 not permitted unit(s)		0.00 cubic yards	0.00 cubic meters
1 permitted unit(s)		31,399.97 cubic yards	24,007.00 cubic meters

S06 - *Storage - Containment Building*	Rev	Process Design Capacity English Units	Process Design Capacity 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*	7	46,000.62 cubic yards	35,170.00 cubic meters

3 unit(s) total	92,563.66 cubic yards	70,770.00 cubic meters
3 not permitted unit(s)	92,563.66 cubic yards	70,770.00 cubic meters
0 permitted unit(s)	0.00 cubic yards	0.00 cubic meters

S99 - *Storage - Miscellaneous Unit*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
600 Area Dangerous Waste Storage and Treatment Facility*	5	999,996.64 gallons	[illegible] liters
Hanford Waste Vitrification Plant*	6	599.95 gallons	[illegible] liters
Waste Encapsulation and Storage Facility*	1	1,199.34 gallons	4,540.00 liters

3 unit(s) total	1,001,795.92 gallons	3,792,211.00 liters
3 not permitted unit(s)	1,001,795.92 gallons	3,792,211.00 liters
0 permitted unit(s)	0.00 gallons	0.00 liters

T01 - *Treatment - Tank*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
183.1 Solar Evaporation Basins	4	700.00 gallons per day	[illegible] liters per day
200 Area Effluent Treatment Facility	2	215,999.17 gallons per day	[illegible] liters per day
222-S Laboratory Complex*	7	206.05 gallons per day	[illegible] liters per day
242-A Evaporator and Storage Tanks*	6	4,299.93 gallons per day	[illegible] liters per day
300 Area Solvent Evaporator	3	220.00 gallons per day	[illegible] liters per day
300 Area Waste Acid Treatment System*	5	3,699.99 gallons per day	[illegible] liters per day
300 Area Waste Acid Treatment System*	5	4,999.98 gallons per day	[illegible] liters per day
324 Pilot Plant	3	5.28 gallons per day	[illegible] liters per day
325 Hazardous Waste Treatment Units	3A	3,321.70 gallons per day	[illegible] liters per day
3718-F Alpha Waste Treatment and Storage Area	4	6.60 gallons per day	[illegible] liters per day
437 Maintenance and Storage Facility	2	5.28 gallons per day	[illegible] liters per day
B Plant Complex*	8	28,299.69 gallons per day	[illegible] liters per day
Double Shell Tank System*	9	32,930,227.05 gallons per day	[illegible] liters per day
Grout Treatment Facility*	6	1,315.05 gallons per day	[illegible] liters per day
Hanford Waste Vitrification Plant*	6	8,727.71 gallons per day	[illegible] liters per day
Hanford Waste Vitrification Plant*	6	110.16 gallons per day	[illegible] liters per day
Hanford Waste Vitrification Plant*	6	17,598.08 gallons per day	[illegible] liters per day
PUREX Plant*	9	103,555.42 gallons per day	[illegible] liters per day
Single Shell Tank System*	6	499,997.99 gallons per day	[illegible] liters per day
Sodium Storage Facility and Sodium Disposal Facility	1	218.26 gallons per day	[illegible] liters per day
T Plant Complex*	7	33,999.92 gallons per day	128,612.00 liters per day

21 unit(s) total	33,978,008.33 gallons per day	128,620,784.58 liters per day
14 not permitted unit(s)	33,757,750.29 gallons per day	127,787,017.00 liters per day
7 permitted unit(s)	220,258.04 gallons per day	833,767.58 liters per day

T02 - *Treatment - Surface Impoundment*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
1024-N Surface Impoundment	3	400,000.00 gallons per day	1,514,164.33 liters per day
216-B-5 Expansion Ponds	0	27,360,000.00 gallons per day	103,540,121.56 liters per day
216-B-3 Main Pond*	6	840,000.00 gallons per day	3,179,346.14 liters per day
216-B-63 Trench*	3	199,999.33 gallons per day	757,080.00 liters per day
Group Treatment Facility*	0	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
3 not permitted unit(s)		1,140,998.88 gallons per day	4,319,151.14 liters per day
3 permitted unit(s)		51,739,220.92 gallons per day	195,854,286.39 liters per day

T03 - *Treatment - Incinerator*	Rev	Process Design Capacity English Units	Process Design Capacity 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
1 not permitted unit(s)		0.10 tons per hour	0.09 metric tons per hour
0 permitted unit(s)		0.00 tons per hour	0.00 metric tons per hour

T04 - *Treatment - Other*	Rev	Process Design Capacity English Units	Process Design Capacity SI Units
[illegible] Ponds	3	45,000.00 gallons per day	[illegible]
105-DR Cores Storage Facility	3	26.42 gallons per day	[illegible]
1024-N Percolation Pond	3	2,000,000.00 gallons per day	[illegible]
1706-KER Water Treatment System*	3	1,499.97 gallons per day	[illegible]
200 Area Effluent Treatment Facility	3	4,999.98 gallons per day	[illegible]
200 West Area Air Pollution Control Site	4	150.00 gallons per day	[illegible]
204-AR Waste Unloading Station*	5	249,999.83 gallons per day	[illegible]
216-A-36B Crib	3	6,000,000.00 gallons per day	[illegible]
216-B-8 Borrow Pit Demolition Site	4	150.00 gallons per day	[illegible]
221-T Tank Farm*	3	26.42 gallons per day	[illegible]
242-A Evaporator	7	229,999.23 gallons per day	[illegible]
300 Area Waste Acid Treatment System*	5	4,199.81 gallons per day	[illegible]
304 Demolition Facility	4	550.00 gallons per day	[illegible]
325 Hazardous Waste Treatment Unit*	5	399.96 gallons per day	[illegible]
3718-F Alkali-Metal Treatment and Storage Area	4	26.42 gallons per day	[illegible]
600 Area Purgewater Storage and Treatment Facility*	5	2,332.64 gallons per day	[illegible]
Biological Treatment Test Facilities	0	40,000.00 gallons per day	[illegible]

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
Hanford Patrol Academy Demolition Sites	4	150.05 gallons per day	568.00 liters per day
Hanford Waste Vitrification Plant*	6	1,585.03 gallons per day	6,000.00 liters per day
Ozone Storage and Treatment Facility*	3	3,000.00 gallons per day	11,356.24 liters per day
Physical and Chemical Treatment Test Facilities	1	500.00 gallons per day	1,892.71 liters per day
Plutonium Finishing Plant Treatment and Storage Unit*	2	26.42 gallons per day	100.00 liters per day
Simulated High Level Waste Slurry Treatment /Storage	2	550.00 gallons per day	2,081.98 liters per day
Thermal Treatment Test Facilities	0	17,000.00 gallons per day	64,352.01 liters per day
Waste Receiving and Processing Facility*	2	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
11 not permitted unit(s)	6,179,049.76 gallons per day	23,390,249.68 liters per day
16 permitted unit(s)	1,339,528.47 gallons per day	5,070,667.39 liters per day

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

Last Updated: Sep 26 2000 9:52AM

2.4.1 - Hanford Facility Treatment, Storage, and/or Disposal Units - "One-Page" Report *

	Part A, Form 3	Rev	Co-op [1] /MSC	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Dated	Rev	Location in HF RCRA Permit	Date Closed
	Final Status									
1	Nonradioactive Dangerous Waste Storage Facility	7	FH	600	S	Part B	10/31/91	2	Part 3, Chapter 1	
2	Storage Facility	1	PNNL	300	S	Part B	04/30/92	2	Part 3, Chapter 2	
3	EX Storage Tunnels	5	FH	200E	S	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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	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	7	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	11	FH	200EW	SD	Part B	07/31/97	1		
8	Single-Shell Tank System	6	CHG	200EW	TS	Closure Work Plan	06/30/95	0		
9	T Plant Complex	7	FH	200W	TS	Part B	12/19/95	0		
10	Waste Receiving and Processing Facility	2	FH	200W	TS	Part B	05/22/98	1		
	To Be Closed									
	E Waste Treatment System	3	FH	100	TS	Closure Plan	07/08/99	0		
2	-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	3	FH	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	03/31/98	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 6.0)									
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	FH	200E	TS	Preclosure Work Plan	02/27/98	0		
4	PUREX Plant	9	BHI	200E	TS	Preclosure Work Plan	06/30/95	0		
	Procedural Closure									
1	221-T Test Facility	3	FH	200W	T					
2	272-W/WA/WB Sodium Storage Building	1	FH	200W	S					
3	324 Pilot Plant	3	PNNL	300	T					
4	332 Storage Facility	0	PNNL	300	S					
5	437 Maintenance and Storage Facility	3	FH	400	T					
6	Biological Treatment Test Facilities	0	PNNL	300	T					
7	Physical and Chemical Treatment Test Facilities	1	PNNL	300	TS					
8	Thermal Treatment Test Facilities	0	PNNL	300	T					
	Other									
1	207-A South Retention Basin	2	FH	200E	S					
2	241-CX Tank System	3	BHI	200E	S					
3	600 Area Purgewater Storage and Treatment Facility	3	BHI	600	TS					
4	Plutonium Finishing Plant Treatment and Storage Unit	2	FH	200W	TS					
5	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400	TS					
6	Waste Encapsulation and Storage Facility	1	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: Sep 26 2000 9:52AM

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	[illegible]	4	Other	200	[illegible]	09/24/92	[illegible]	Part 5, Chapter 2	09/27/96	DC
2	[illegible]	2	Other	200W	[illegible]	10/07/92	[illegible]	Part 5, Chapter 4	09/27/96	DC
3	[illegible]	2	PNNL	300	TS	11/05/94	4	Part 5, Chapter 7	09/06/96	DC
4	[illegible]	2	Other	200	[illegible]	10/21/94	[illegible]	Part 5, Chapter 8	09/27/96	DC
5	[illegible]	4	Other	200W	[illegible]	10/03/94	[illegible]	Part 5, Chapter 9	10/25/96	DC
6	[illegible]	2	Other	200E	[illegible]	07/01/94	[illegible]	Part 5, Chapter 10	10/25/96	DC
7	[illegible]	0	Other	200E	[illegible]	10/31/94	[illegible]	Part 5, Chapter 6	09/27/96	DC
8	[illegible]	4	Other	600	[illegible]	11/21/94	[illegible]	Part 5, Chapter 3	10/25/96	DC
9	[illegible]	1	PNNL	100	TS	09/01/95	[illegible]	Part 5, Chapter 12	Pending	DC
10	[illegible]	4	Other	600	[illegible]	11/30/95	[illegible]	Part 5, Chapter 11	01/29/96	DC
11	[illegible]	5	FH	400	[illegible]	09/30/95	[illegible]	Part 5, Chapter 14	04/14/97	DC
12	[illegible]	4	FH	300	[illegible]	11/20/95	[illegible]	Part 5, Chapter 13	08/04/96	DC
13	303-K Storage Facility	5	FH	300	S	12/17/93	2	Part 5, Chapter 14		UC
14	[illegible]	4	BHI	100	[illegible]	03/31/96	[illegible]	Part 5, Chapter 15	09/06/99	DC
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	8	CHG	200EW	TS	06/30/95	0			Pln FS
	Part B									
1	616 Nonradioactive Dangerous Waste Storage Facility	7	FH	600	S	10/31/91	2	Part 3, Chapter 1		FS
2	305-B Storage Facility	1	PNNL	300	S	04/30/92	2	Part 3, Chapter 2		FS
3	PUREX Storage Tunnels	5	FH	200E	S	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	7	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	08/28/91	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	11	FH	200EW	SD	07/31/97	1			Pln FS
15	[illegible]nt Complex	7	FH	200W	TS	12/19/95	0			Pln FS
[illegible]	[illegible] Receiving and Processing Facility	2	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	FH	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	3	FH	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	221-T Tank Facility	8	FH	200W	T				02/22/96	ProcC
12	241-CX Tank System	3	BHI	200E	S					Other
13	272-WA (DR) Sodium Storage Building	1	FH	200W	S				02/22/96	ProcC
14	303-M Oxide Facility	1	FH	300	T					TBC
15	324 Hot Shop	0	PNNL	300	[illegible]				08/06/97	ProcC
16	332 Storage Facility	0	PNNL	300	S				12/21/97	ProcC
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	Biological Treatment Test Facilities	0	PNNL	300	T				12/1/98	ProcC
20	HLW Interim Storage Unit	0	FH	200E	S					Pln FS
21	Physical and Chemical Treatment Test Facilities	0	PNNL	300	TS				5/13/99	ProcC
22	Plutonium Finishing Plant Treatment and Storage Unit	2	FH	200W	TS					Other
23	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400	TS					Other
24	Thermal Treatment Test Facilities	0	PNNL	300	[illegible]				5/13/99	ProcC
25	Waste Encapsulation and Storage Facility	1	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: Sep 26 2000 9:52AM

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	Dated	Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	Disposal (D)									
1	2101-M Pond	2	Other	300E	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
	N Liquid Waste Disposal Facility	7	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 17		UC
	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	616 Nonradioactive Dangerous Waste Storage Facility	7	FH	600	Part B	10/31/91	2	Part 3, Chapter 1		FS
2	305-B Storage Facility	1	PNNL	300	Part B	04/30/92	2	Part 3, Chapter 2		FS
3	PUREX Storage Tunnels	5	FH	200E	Part B	04/14/97	4	Part 3, Chapter 3		FS
4	2727-B Storage Facility	0	Other	200W	Closure Plan	10/07/92	5A	Part 5, Chapter 3	09/27/96	CC
5	4643 Waste Metal Storage Facility	0	FH	300	Closure Plan	09/30/96	1	Part 5, Chapter 12	04/24/97	CC
6	303-K Storage Facility	5	FH	300	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
7	207-A South Retention Basin	2	FH	200E						Other
8	224-T Transuranic Waste Storage and Assay Facility	6	FH	200W	Part B	06/30/92	0			TPA/8
9	241-CX Tank System	3	BHI	200E						Other
10	272-WA (PE) Sodium Storage Building	1	FH	200W					02/22/99	ProcC
11	332 Storage Facility	0	PNNL	300					4/21/97	ProcC
12	HLW Interim Storage Unit	0	FH	200E						Pln FS
13	Waste Encapsulation and Storage Facility	1	FH	200E						Other
	Storage and Disposal (SD)									
1	Low-Level Burial Grounds	11	FH	200EW	Part B	07/31/97	1			Pln FS
	Treatment (T)									
1	218-E-5 Burial Pit Demolition Site	4	Other	200E	Closure Plan	10/21/94	1	Part 5, Chapter 5	10/26/95	CC
2	200 West Area Ash Pit Demolition Site	4	Other	200W	Closure Plan	10/06/94	1	Part 5, Chapter 8	10/26/95	CC
3	Hanford Patrol Academy Demolition Sites	4	Other	300	Closure Plan	12/15/94	1	Part 5, Chapter 9	10/26/95	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	221-T Tank Facility	0	FH	200W					02/22/99	ProcC
7	303-M Oxide Facility	1	FH	300						TBC
8	324 Pilot Plant	0	PNNL	300					06/06/97	ProcC
9	437 Maintenance and Storage Facility	3	FH	400						ProcC
10	Biological Treatment Test Facilities	0	PNNL	300					9/10/98	ProcC
11	Thermal Treatment Test Facilities	0	PNNL	300					8/10/98	ProcC
	Treatment and Disposal (TD)									
1	216-B-3 Expansion Ponds	0	Other	200E	Closure Plan	10/31/94	2	Part 5, Chapter 6	06/27/95	CC
2	100-D Ponds	4	BHI	100	Closure Plan	03/31/98	2	Part 5, Chapter 15	06/09/99	CC
3	1324-NA Percolation Pond	3	BHI	100	Closure Plan	05/01/96	0	Part 5, Chapter 19		UC
4	4-29 Ditch	3	BHI	200E						TBC
	3 Main Pond	6	BHI	200E						TBC
	-63 Trench	3	FH	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	8	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	300 Area Solvent Evaporator	4	Other	300	Closure Plan	09/24/92	3B	Part 5, Chapter 2	09/27/96	CC
6	Simulated High-Level Waste Slurry Treatment /Storage	2	PNNL	3000	Closure Plan	11/07/94	6A	Part 5, Chapter 4	09/09/96	CC
7	105-DR Large Sodium Fire Facility	4	BHI	100	Closure Plan	03/01/95	2	Part 5, Chapter 10	Partial	CC
8	304 Concretion Facility	4	Other	300	Closure Plan	11/30/93	2	Part 5, Chapter 11	01/26/95	CC
9	3718-F Alkali Metal Treatment and Storage Area	4	FH	300	Closure Plan	11/20/95	2	Part 5, Chapter 13	06/04/98	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	7	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/8
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	FH	200E	Preclosure Work Plan	02/27/96	0			TPA/8
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	06/26/91	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	Physical and Chemical Treatment Test Facilities	1	PNNL	300					5/13/98	ProcC
22	Plutonium Finishing Plant Treatment and Storage Unit	2	FH	200W						Other
23	PUREX Plant	9	BHI	200E	Preclosure Work Plan	06/30/95	0			TPA/8
24	Single-Shell Tank System	6	CHG	200EW	Closure Work Plan	06/30/95	0			Pln FS
25	Sodium Storage Facility and Sodium Reaction Facility	1	FH	400						Other
26	T Plant Complex	7	FH	200W	Part B	12/19/95	0			Pln FS
27	Waste Receiving and Processing Facility	2	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: Sep 26 2000 9:52AM

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	Dated	Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	BHI									
1	[illegible]	4A	100	TD	Closure Plan	05/01/96	0	Part 5, Chapter 10	[illegible]	UC
[illegible]	[illegible]	4	100	TD	Closure Plan	05/01/96	0	Part 5, Chapter 16	05/00/96	UC
[illegible]	[illegible]-N Liquid Waste Disposal Facility	7	100	D	Closure Plan	05/01/96	0	Part 5, Chapter 16		UC
[illegible]	[illegible]-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-S-10 Pond and Ditch	3	200W	D						TBC
15	216-U-12 Crib	3	200W	D						TBC
16	241-CX Tank System	3	200E	S						Other
17	600 Area Purgewater Storage and Treatment Facility	3	600	TS						Other
18	Hexone Storage and Treatment Facility	3	200W	TS	Closure Plan	11/24/92	0			TBC
19	Nonradioactive Dangerous Waste Landfill	4	600	D	Closure Plan	09/30/90	0			TBC
20	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	08/28/91	0			Pln FS
3	Grout Treatment Facility	6	200E	TSD	Part B	07/24/92	2			TBC
4	Single-Shell Tank System	6	200EW	TS	Closure Work Plan	06/30/95	0			Pln FS
	DOE									
1	Hanford Waste Vitrification Plant	6	200E	TS	Part B	10/31/91	2			Pln FS
	FH									
1	616 Nonradioactive Dangerous Waste Storage Facility	7	600	S	Part B	10/31/91	2	Part 3, Chapter 1		FS
2	PUREX Storage Tunnels	5	200E	S	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	4843 Alpha Waste Storage Facility	9	400	S	Closure Plan	06/30/95	1	Part 3, Chapter 6	10/31/97	UC
7	3718-B Alpha Waste Treatment and Storage Area	4	300	TS	Closure Plan	11/20/95	2	Part 3, Chapter 7	5/00/98	UC
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	216-B-63 Trench	3	200E	TD						TBC
12	221-T Tank Facility	3	200W	T					09/00/99	Pln FS
13	222-S Laboratory Complex	7	200W	TS	Part B	12/21/91	0			Pln FS
14	[illegible]T Transuranic Waste Storage and Assay Facility	6	200W	S	Part B	06/30/92	0			TPA/8
[illegible]	[illegible] Treatment and Storage Tanks	6	200W	TS	Closure Plan	12/31/96	0			TPA/8
[illegible]	WESRF Sodium Storage Building	11	200W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	07/22/98	ProcC
17	300 Area Waste Acid Treatment System	5	300	TS	Closure Plan	03/31/96	1			TBC
18	303-M Oxide Facility	1	300	T						TBC
19	437 Maintenance and Storage Facility	3	400	T						ProcC
20	B Plant Complex	8	200E	TS	Preclosure Work Plan	02/27/98	0			TPA/8
21	Central Waste Complex	4	200W	TS	Part B	05/22/98	1			Pln FS
22	HLW Interim Storage Unit	0	200E	S						Pln FS
23	Low-Level Burial Grounds	11	200EW	SD	Part B	07/31/97	1			Pln FS
24	Plutonium Finishing Plant Treatment and Storage Unit	2	200W	TS						Other
25	Sodium Storage Facility and Sodium Reaction Facility	1	400	TS						Other
26	T Plant Complex	7	200W	TS	Part B	12/19/95	0			Pln FS
27	Waste Encapsulation and Storage Facility	1	200E	S						Other
28	Waste Receiving and Processing Facility	2	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 8		FS
3	Simulated High Level Waste Slurry Treatment/Storage	2	2000	TS	Closure Plan	11/07/94	0A	[illegible]	[illegible]	CO
4	324 PNL Plant	0	300	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ProcC
5	332 Storage Facility	0	300	S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ProcC
6	Biological Treatment Test Facilities	0	300	S	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ProcC
7	Physical and Chemical Treatment Test Facilities	1	300	TS	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ProcC
8	Thermal Treatment Test Facilities	0	300	T	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ProcC
	Other									
1	300 Area Solvent Evaporator	4	300	TS	Closure Plan	09/24/92	0	[illegible]	[illegible]	CO
2	2727-S Storage Facility	2	200W	S	Closure Plan	10/07/92	0A	[illegible]	[illegible]	CO
3	218-E-8 Burial Pit Demolition Site	2	200E	[illegible]	Closure Plan	10/21/94	0A	[illegible]	[illegible]	CO
4	200 West Area UMTRA Pit Demolition Site	2	200W	[illegible]	Closure Plan	10/06/94	0	[illegible]	[illegible]	CO
5	2101-M Pond	2	200E	D	Closure Plan	07/01/94	0A	[illegible]	[illegible]	CO
6	216-B-5 Expansion Ponds	3	200E	TD	Closure Plan	10/31/94	0	[illegible]	[illegible]	CO
7	Hanford Patrol Academy Demolition Sites	4	600	[illegible]	Closure Plan	12/15/94	0	[illegible]	[illegible]	CO
8	304 Concretion Facility	4	300	TS	Closure Plan	11/30/92	2	Part 5, Chapter 15	01/20/98	CO

* 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: Sep 26 2000 9:52AM

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	[illegible]	[illegible]	[illegible]	TS	Closure Plan	[illegible]	[illegible]	Part 5, Chapter 10	Partial	OC
[illegible]	[illegible]	[illegible]	[illegible]	TD	Closure Plan	[illegible]	[illegible]	Part 5, Chapter 15	06/09/99	OC
[illegible]	[illegible]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	5	FH	S	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	216-B-[illegible] Demolition Site	[illegible]	[illegible]	[illegible]	Closure Plan	10/01/94	[illegible]	Part 5, Chapter 6	10/26/95	OC
6	2101-M Pond	2	Other	D	Closure Plan	07/01/94	2A	Part 5, Chapter 7	10/26/95	OC
7	216-B-[illegible] Evaporation Ponds	3	Other	TD	Closure Plan	10/31/94	2	Part 5, Chapter 8	06/27/96	OC
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	3	FH	TD						TBC
15	241-CX Tank System	3	BHI	S						Other
16	B Plant Complex	8	FH	TS	Preclosure Work Plan	02/27/98	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	1	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	11	FH	SD	Part B	07/31/97	1			Pln FS
3	Single-Shell Tank System	6	CHG	TS	Closure Work Plan	06/30/95	0			Pln FS
	200W									
1	2727-S Storage Facility	2	Other	S	Closure Plan	10/07/92	5A	Part 5, Chapter 5	06/27/96	OC
2	200 West Area Ash Pit Demolition Site	14	Other	T	Closure Plan	10/06/94	1	Part 5, Chapter 9	10/26/95	OC
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	221-T Test Facility	3	FH	T					02/22/99	Pln/O
7	[illegible]S Laboratory Complex	7	FH	TS	Part B	12/21/91	0			Pln FS
[illegible]	[illegible] Transuranic Waste Storage and Assay Facility	6	FH	S	Part B	06/30/92	0			TPA/8
[illegible]	[illegible] Treatment and Storage Tanks	6	FH	TS	Closure Plan	12/31/96	0			TPA/8
10	2727WA BRF Sodium Storage Building	1	FH	S					02/22/99	Pln/O
11	Central Waste Complex	4	FH	TS	Part B	05/22/98	1			Pln FS
12	Hexone Storage and Treatment Facility	3	BHI	TS	Closure Plan	11/24/92	0			TBC
13	Plutonium Finishing Plant Treatment and Storage Unit	2	FH	TS						Other
14	T Plant Complex	7	FH	TS	Part B	12/19/95	0			Pln FS
15	Waste Receiving and Processing Facility	2	FH	TS	Part B	05/22/98	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	300 Area Solvent Evaporator	4	Other	TS	Closure Plan	06/24/97	3B	Part 5, Chapter 2	06/27/96	OC
4	304 Concretion Facility	4	Other	TS	Closure Plan	11/30/95	2	Part 5, Chapter 11	01/26/96	OC
5	3716-P Alkali Metal Treatment and Storage Area	4	FH	TS	Closure Plan	11/20/95	2	Part 5, Chapter 13	06/04/96	OC
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	324 Pilot Plant	0	PNNL	T					[illegible]	Pln/O
11	332 Storage Facility	0	PNNL	S					[illegible]	Proc/O
12	Biological Treatment Test Facilities	0	PNNL	T					[illegible]	Pln/O
13	Physical and Chemical Treatment Test Facilities	1	PNNL	TS					[illegible]	Pln/O
14	Thermal Treatment Test Facilities	0	PNNL	T					[illegible]	Pln/O
	400									
1	4843 Alkali Metal Storage Facility	3	FH	S	Closure Plan	09/30/95	1	Part 5, Chapter 12	04/14/97	OC
2	437 Maintenance and Storage Facility	3	FH	T						ProcC
3	Sodium Storage Facility and Sodium Reaction Facility	1	FH	TS						Other
	600									
1	616 Nonradioactive Dangerous Waste Storage Facility	7	FH	S	Part B	10/31/91	2	Part 3, Chapter 1		FS
2	Hanford Patrol Academy Demolition Sites	4	Other	T	Closure Plan	12/15/94	1	Part 5, Chapter 3	10/26/95	OC
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	3	PNNL	TS	Closure Plan	11/02/94	5A	Part 5, Chapter 1	09/09/95	OC

* 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: Sep 26 2000 9:52AM

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

	Part A, Form 3	Rev	Co-op [1] /MSC	Area [2]	Unit Type T=treatment S=storage D=disposal	Submitted Document Type	Dated	Rev	Location in HF RCRA Permit	Date Closed	One Page Location
	PART 3										
1	Nonradioactive Dangerous Waste Storage Facility	7	FH	600	S	Part B	10/31/91	2	Part 3, Chapter 1		FS
2	[illegible]-B Storage Facility	1	PNNL	300	S	Part B	04/30/92	2	Part 3, Chapter 2		FS
3	PUREX Storage Tunnels	5	FH	200E	S	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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
3	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
5	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
6	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
7	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
8	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
9	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
10	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
11	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
12	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Closure Plan	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
13	303-K Storage Facility	5	FH	300	S	Closure Plan	12/17/93	2	Part 5, Chapter 14		UC
14	100-B Ponds	4	BHI	100	TD	Closure Plan	[illegible]	2	Part 5, Chapter 15	[illegible]	[illegible]
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	3	FH	200E	TD						TBC
10	216-S-10 Pond and Ditch	3	BHI	200W	D						TBC
11	[illegible]-12 Crib	3	BHI	200W	D						TBC
12	[illegible] Facility	5	FH	200W	T					02/22/99	ProcC
13	222-S Laboratory Complex	7	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	2727-WA Sine Sodium Storage Building	1	FH	200W	S					02/22/99	ProcC
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	324 Pilot Plant	0	PNNL	300	T					09/08/97	ProcC
21	332 Storage Facility	0	PNNL	300	S					4/21/99	ProcC
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	B Plant Complex	6	FH	200E	TS	Preclosure Work Plan	02/27/98	0			TPA/8
25	Biological Treatment Test Facilities	0	PNNL	300	TS					12/10/98	ProcC
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	11	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	Physical and Chemical Treatment Test Facilities	1	PNNL	300	TS					5/13/98	ProcC
35	Plutonium Finishing Plant Treatment and Storage Unit	2	FH	200W	TS						Other
36	PUREX Plant	9	BHI	200E	TS	Preclosure Work Plan	06/30/95	0			TPA/8
37	Single-Shell Tank System	6	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	7	FH	200W	TS	Part B	12/19/95	0			Pln FS
40	Thermal Treatment Test Facilities	0	PNNL	300	TS					5/13/98	ProcC
41	Waste Encapsulation and Storage Facility	1	FH	200E	S						Other
42	Waste Receiving and Processing Facility	2	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: Sep 26 2000 9:52AM

DOE/RL-88-21
Form 1
05/98

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

3.0 FORM 1 - DANGEROUS WASTE PERMIT APPLICATION

This section contains Dangerous Waste Permit Application Form 1s for the U.S. Department of Energy, Richland Operations Office and co-operators.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 08/29/2000 12:05:19
Return to the Hanford home page.

Designed By LMSI WEB TEAM
Maintained by FH

DOE/RL-88-21
Form 3
05/98

HANFORD FACILITY DANGEROUS WASTE PART A PERMIT APPLICATION

4.0 FORM 3 - DANGEROUS WASTE PERMIT APPLICATION

This section contains Dangerous Waste Permit Application - Form 3's for the Hanford Site.

For questions or comments, contact Mike Cline at michael_w_cline@rl.gov
Last updated: 08/29/2000 12:05:20
Return to the Hanford home page.

Designed By LMSI WEB TEAM

Maintained by FH

DOE/RL-88-21
1706-KE Waste Treatment System
Rev. 3, 9/26/96

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

ORM 3

DANGEROUS WASTE PERMIT APPLICATION

I. EPA/STATE I.D. NUMBER: WA7890008967

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	COMMENTS
		Pending Approval

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).*

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
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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
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	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR GALLONS PER HOUR OR LITERS PER HOUR
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 in 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	C
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Grout Treatment Facility
Rev. 6, 9/30/99

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

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 processes listed below that best describes each process to be used at the facility. Note that one of the processes must be a storage process. Enter the code(s) in the spaces 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 in Section III-C.

B. PROCESS DESIGN CAPACITY - For each code entered, provide the capacity of the process.

1. AMOUNT - Enter the amount.

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

PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNIT 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 HECTAREMETER	OTHER (Use for physical, chemical, thermal or biological treatment processes not involving tanks, surface impoundments or incineration. Describe the processes in the space provided in 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	POUNDS PER HOUR	D	HECTAREMETER	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	P
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	200	G	
X-2	T03	20	E	
1	T04	382,325	V	
2	T02	382,325	V	
3	S02	3,028	L	
4	T01	4,978	V	
5	D81	22.8	F	
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.

T04, T02, S02, T01, D81

The Grout Treatment Facility (GTF)began waste management operation in August 1988. The GTF is designed to treat mixed waste by mixing the liquid waste with grout-forming solids in an in-line mixer (T04), which is part of a unit called the Grout Processing Facility. This process forms a slurry that is pumped to a concrete disposal vault. The vault is operated as a surface impoundment (T02) while the grouted waste slurry hardens. When the slurry material has hardened, the vault is sealed and closed.

The GFT has a total production capacity for treatment of approximately 382,325 liters (101,000 gallons) per day (24-hour period) (T04, T02). Treatment consists of mixing liquid waste with dry cementitious materials. The specific formulation of the dry material is predicated upon the specific constituents resident in the liquid waste stream.

The Liquid Collection Tank (LCT) stores potential mixed waste from any spill or leakage collected in the sumps, spent flush and decomtamination solutions from the internal and external system cleanups, and the excess liquid and leachate pumped back from the vaults (S02). The LCT has a design capacity of 3,028 liters (800 gallons). The dangerous waste is treated in the LCT to make the waste more amenable for storage in the Double-Shell Tank (DST) System (T01). The LCT is capable of treating approximately 4,978 liters (1,315 gallons) per day of dangerous waste.

The GTF vaults have a design capacity of approximately 22.8 hectare-meters (185 acre-feet) consisting of 17.9 hectare-meters (145 acre-feet) of waste and 4.9 hectare-meters (40 acre-feet) of grout material (D81). The GFT could have a total of 43 individual vaults with each indivudual vault having a storage capacity of 0.53 hectare-meters (4.3 acre-feet) [5,299,560 liters (1,400,000 gallons)] of mixed waste.

The technology and process operation of the GTF was demonstrated from August 1988 through July 1989 with the treatment of 3,785,400 liters (1,000,000 gallons) of nondangerous waste. Processing of this waste generated leachate that was a corrosive mixed waste that was stored at the GFT and transferred to the DST System. Per Amendment Four of the Hanford Federal Facility Agreement and Consent Order, the GFT has been placed in a standby mode until other alternatives for processing DST System waste are studied.

DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four-digit number from Chapter 173-303 WAC for each listed dangerous waste. Use the "D" series for dangerous waste which are not listed in Chapter 173-303 WAC. Use the four-digit numbers to describe the characteristics and/or toxic contaminants of these dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A, estimate the quantity of that waste that will be stored, treated, and/or disposed of at the facility. For each characteristic or toxic contaminant entered in column A, estimate the total annual quantity of all the non-listed wastes that will be stored, treated, and/or disposed of that possess that characteristic or toxic contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B, enter the unit of measure code. Units of measure which may be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the authorized units of measure taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

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

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

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) 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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the 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 "included with above" and make no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from 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)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K051	900	P	T03	D80			
X-2	D002	200	P	T03	D80			
X-3	D001	200	P	T03	D80			
X-4	D002			T03	D80			Included with above
1	D002	45,359,237	K	T04	T02	S02	T01	Treatment - Other Solidification/Treatment - Surface Impoundment/Storage - Tank/Treatment - Tank
2	D006		↓	↓	↓	↓	↓	↓
3	D007		↓	↓	↓	↓	↓	↓
	D008		↓	↓	↓	↓	↓	↓
5	D011		↓	↓	↓	↓	↓	↓
6	D029		↓	↓	↓	↓	↓	↓
7	D036		↓	↓	↓	↓	↓	↓

8	D040		↓	↓	↓	↓	↓	↓
9	F001		↓	↓	↓	↓	↓	↓
10	F002		↓	↓	↓	↓	↓	↓
11	F003		↓	↓	↓	↓	↓	↓
	F005		↓	↓	↓	↓	↓	↓
13	WT01		↓	↓	↓	↓	↓	Included With Above
14	WT02	45,359,237	K	D81				Disposal - Landfill
15								
16								
17								
18								
19								
20								

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

The dangerous waste proposed to be treated by the GTF has been determined to have waste characteristics of corrosivity (D002, pH greater than or equal to 12.5). The list of dangerous waste under Section IV.A has been added because of the potential of this waste being treated and stored at the GTF. This dangerous waste consists of toxic constituents cadmium (D006), chromium (D007), lead (D008), silver (D011), 1,1-dichlorethylene (D029), nitrobenzene (D036), trichlorethylene (D040), spent nonhalogenated solvents (F001, F002, F003, and F005), and state-only toxic extremely hazardous waste (WT01) in accordance with the Washington Administrative Code (WAC) 173-303-084 "Dangerous Waste Mixtures." Following the treatment (deactivation and solidification) of the waste for corrosivity, the waste is disposed in vaults and is considered a state-only dangerous waste (WT02) due to toxic characteristics of the waste.

Dangerous waste constituents cadmium (D006) and silver (D011), which are considered toxic characteristic waste, have not been detected in the waste. Process knowledge of the waste being sent to the GTF indicates a strong possibility that these constituents will be in the waste. Chromium (D007) and lead (D008) have been detected in the waste based on the actual analytical data.

The Estimated Annual Quantity of Dangerous Waste of 45,359,237 kilograms (1,000,000 pounds) per year is based on approximately 31,986,630 liters (8,450,000 gallons) of waste, or approximately six vaults. The total filling time of these vaults is estimated to be 84 days per year at a maximum pouring rate of 382,325 liters (101,000 gallons) per day.

If the GTF is activated in the future, a Part A, Form 3, permit application revision could be pursued as required by WAC 173-303 to revise the dangerous waste number(s) and the estimated annual quantity of waste.

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)*				

'. 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	Robert M. Rosselli for	09/30/1999

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		

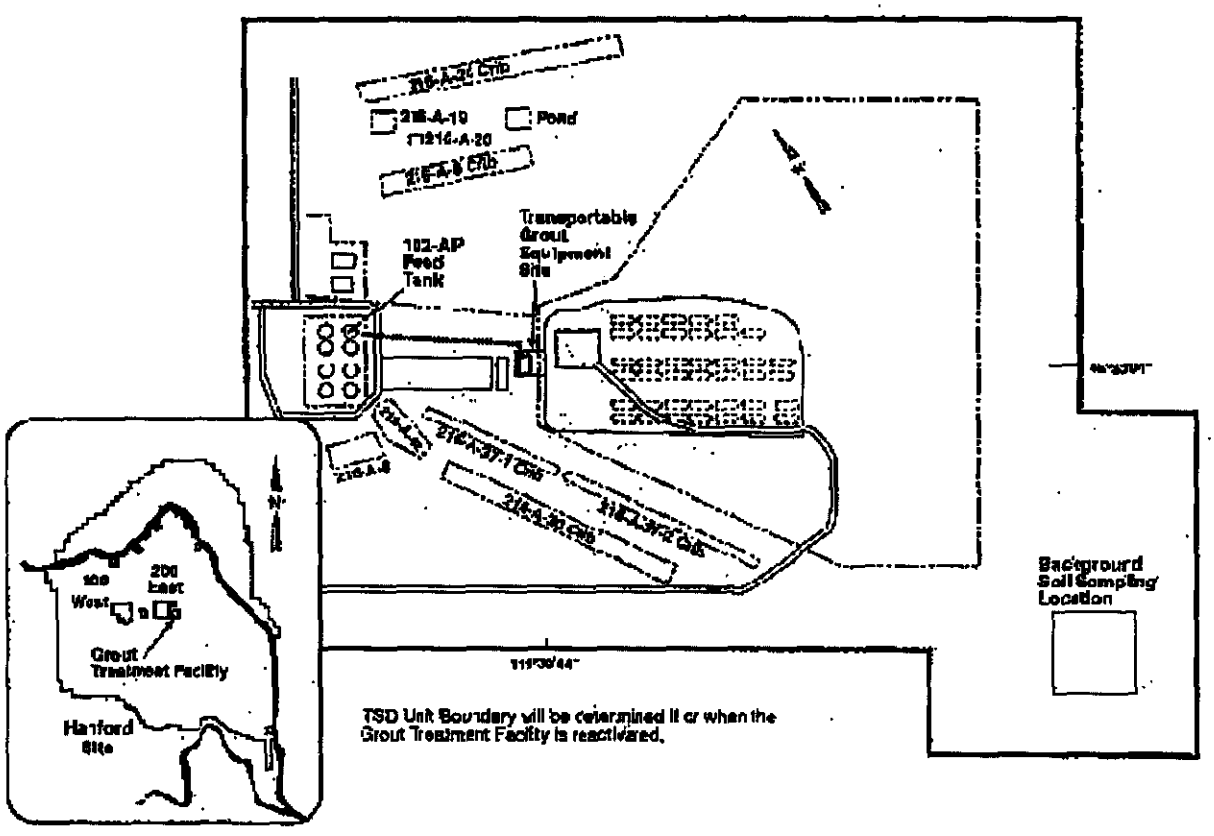
X. OPERATOR CERTIFICATION

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.

Robert M. Rosselli for _____ 9/30/99 _____
Owner/Operator Date
Keith A. Klein, Manager
U.S. Department of Energy

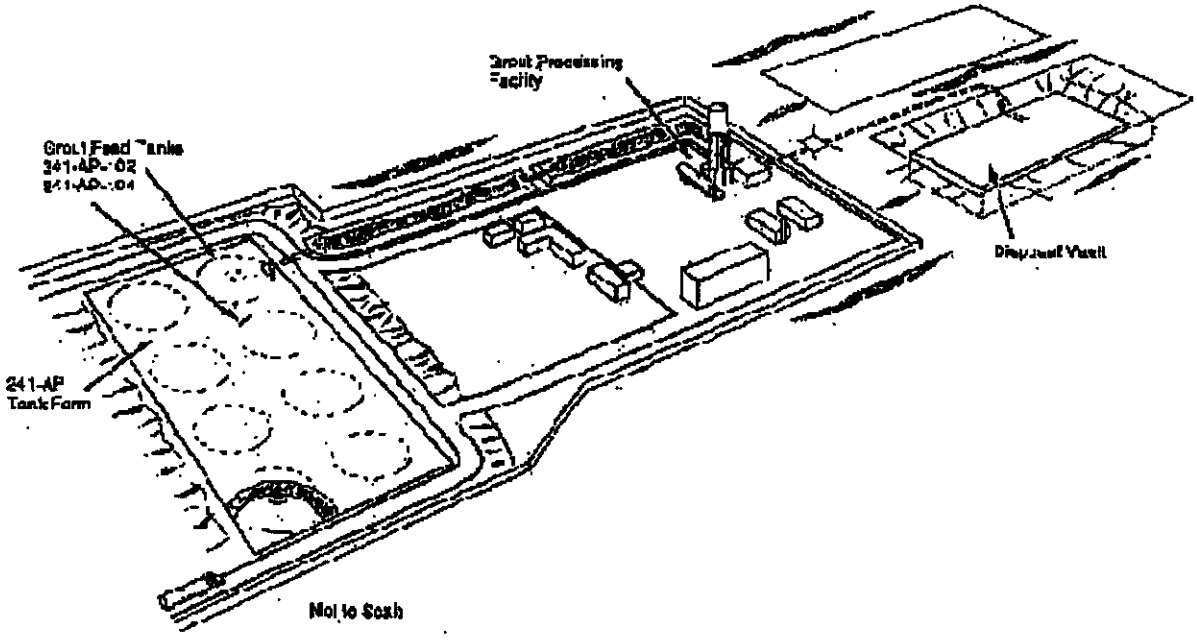
M. P. DeLozier _____ 9/21/99 _____
Co-Operator Date
M. P. DeLozier
President and RPP General Manager
Lockheed Martin Hanford Corporation

Grout Treatment Facility
Site Plan



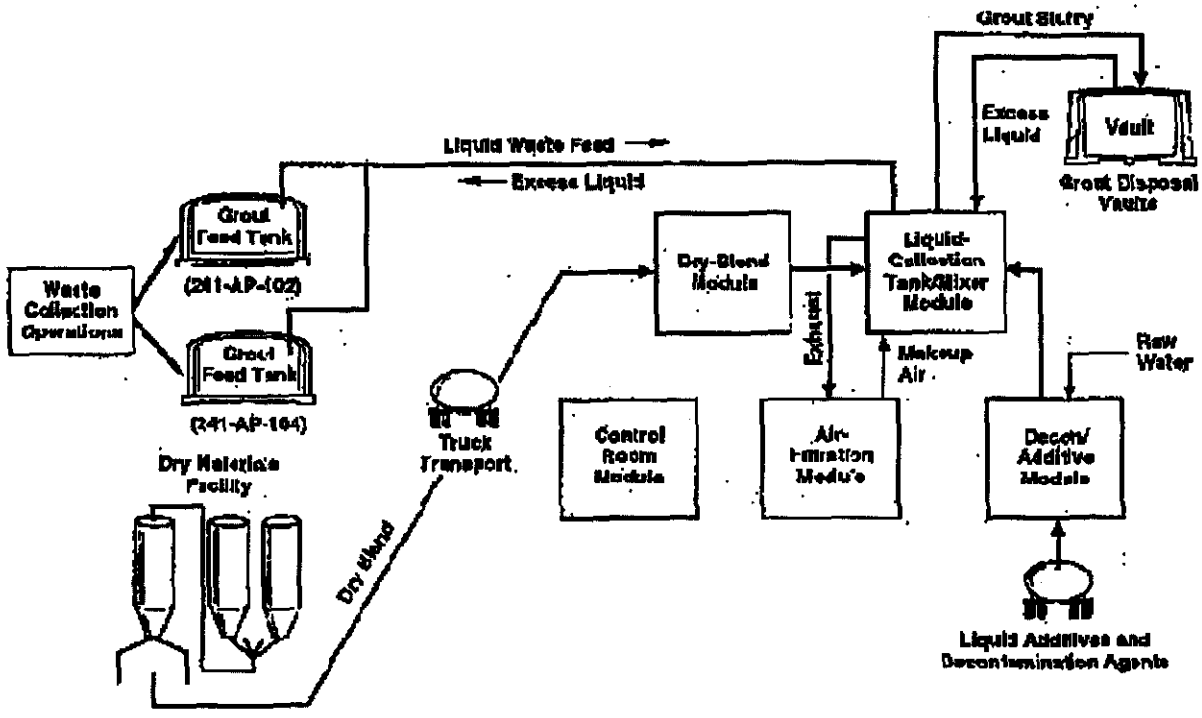
H96070161.9

Grout Treatment Facility Layout



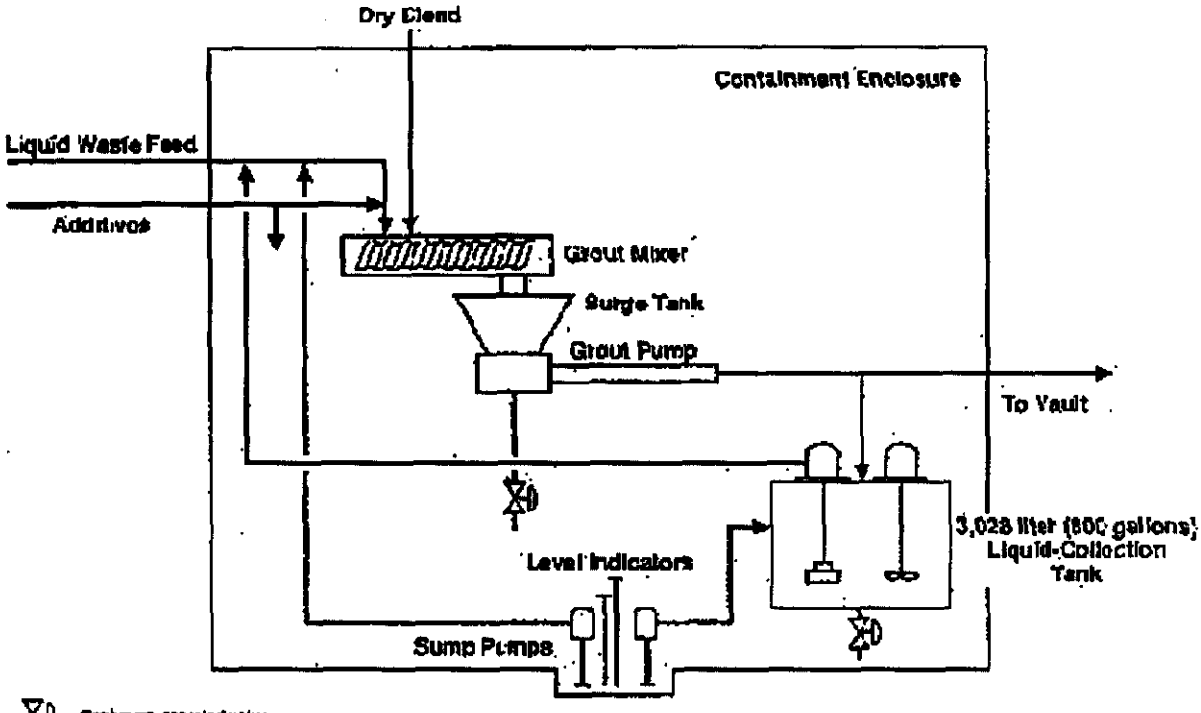
39202084.3

Grout Treatment Facility
Material Flow Diagram



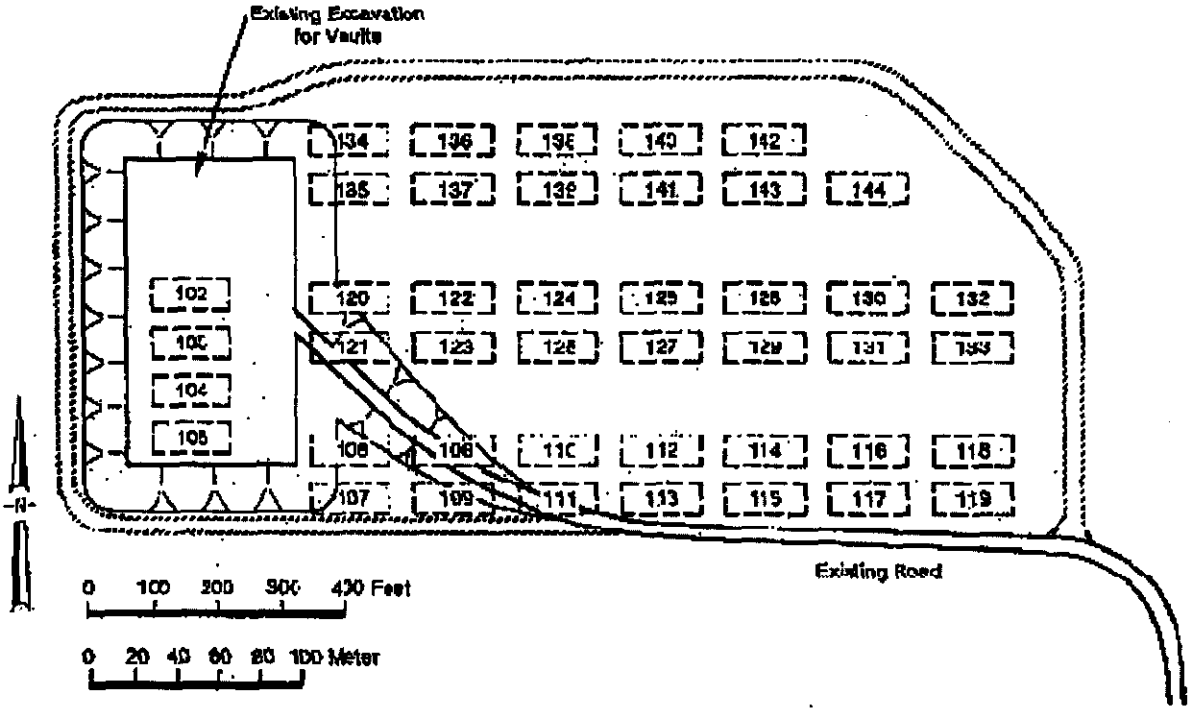
39202084.6

Grout Treatment Facility
Liquid-Collection Tank/Mixer Module

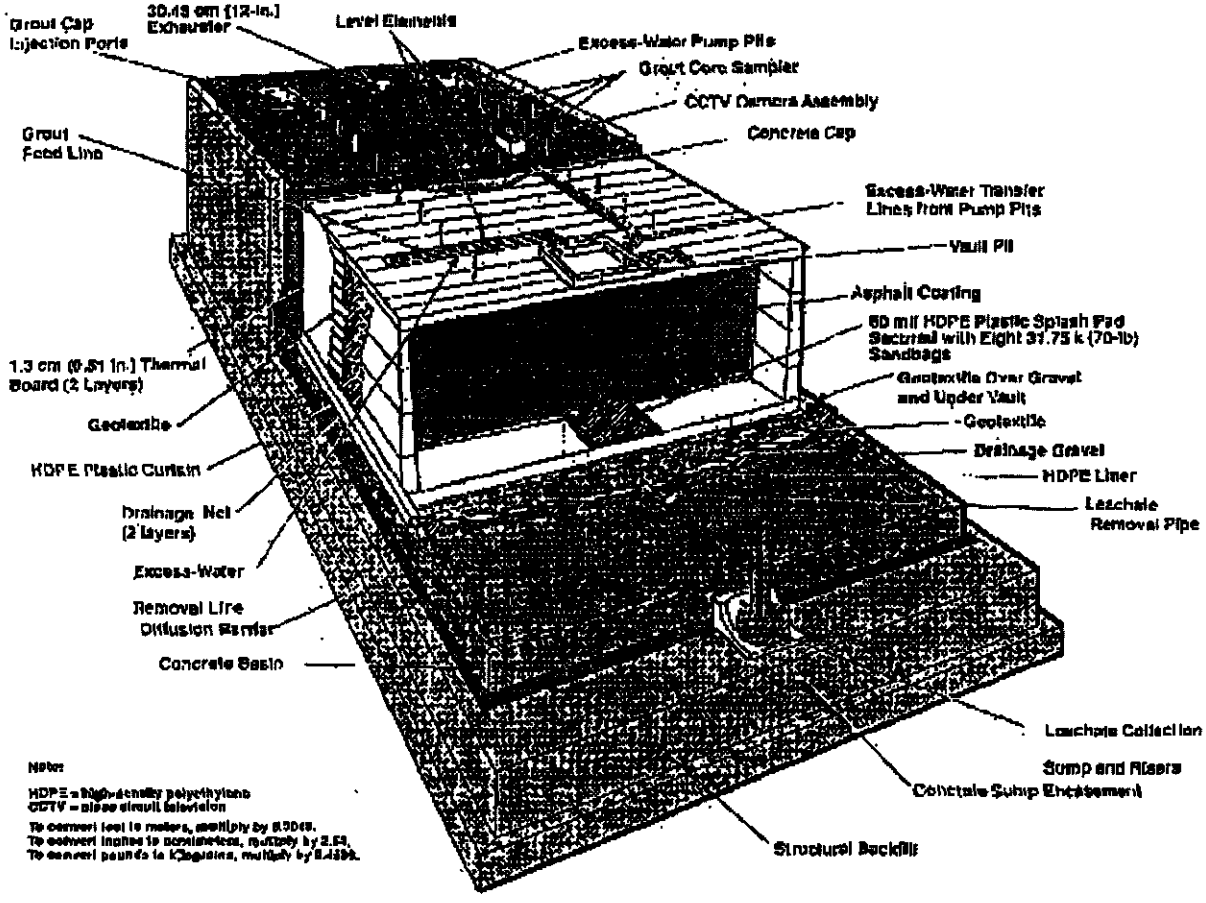


39202084.5

Grout Treatment Facility
Vault Arrangement

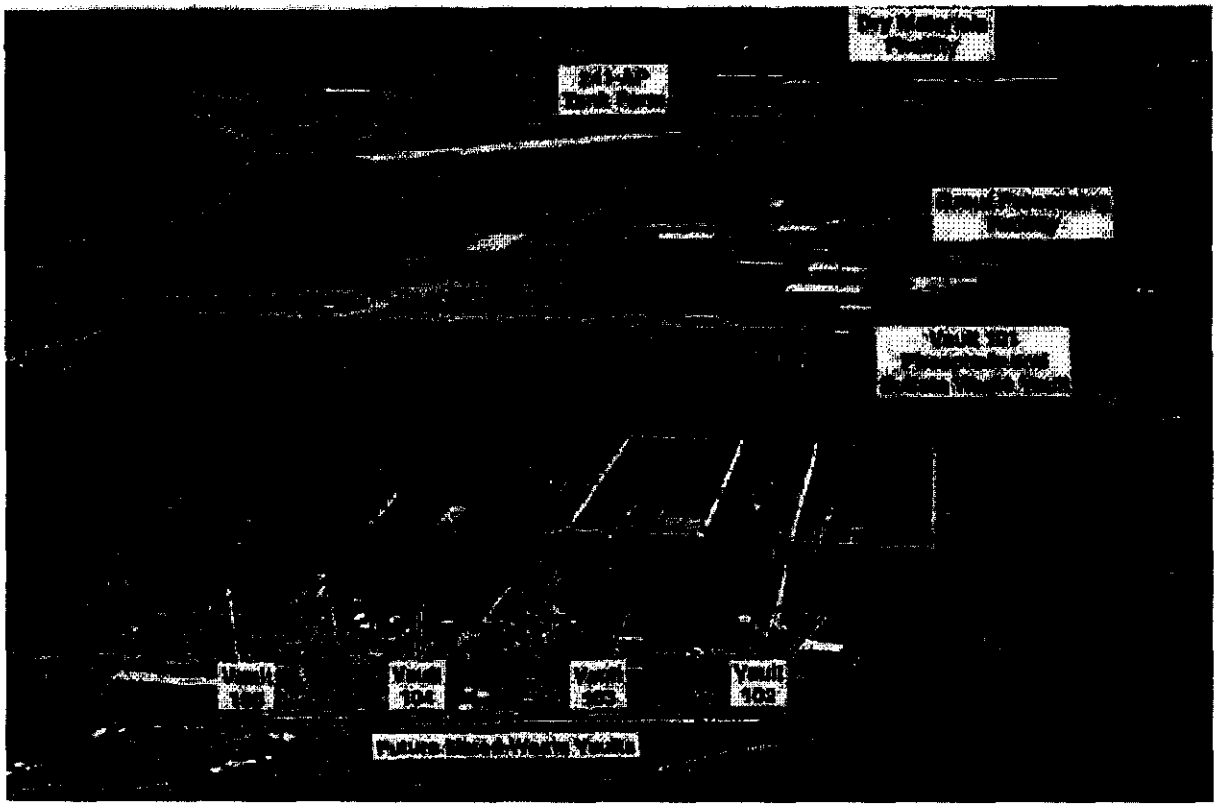


39202084.4


Grout Cap Injection Ports
30.48 cm (12-in.) Exhauster
Level Elements
Excess-Water Pump Pits
Grout Core Sampler
CCTV Camera Assembly
Concrete Cap
Grout Feed Line
Excess-Water Transfer Lines from Pump Pits
Vault Pit
Asphalt Coating
60 mil HDPE Plastic Splash Pad Secured with Eight 31.75 k (70-lb) Sandbags
1.3 cm (0.51 in.) Thermal Board (2 Layers)
Geotextile Over Gravel and Under Vault
Geotextile
Geotextile
Drainage Gravel
HDPE Plastic Curtain
HDPE Liner
Drainage Net (2 layers)
Leachate Removal Pipe
Excess-Water
Removal Line
Diffusion Barrier
Concrete Basin
Leachate Collection
Sump and Risers
Concrete Sump Encasement
Structural Backfill
Notes:
HDPE = high-density polyethylene
CCTV = close circuit television
To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.
To convert pounds to kilograms, multiply by 0.4536.

39202084.1

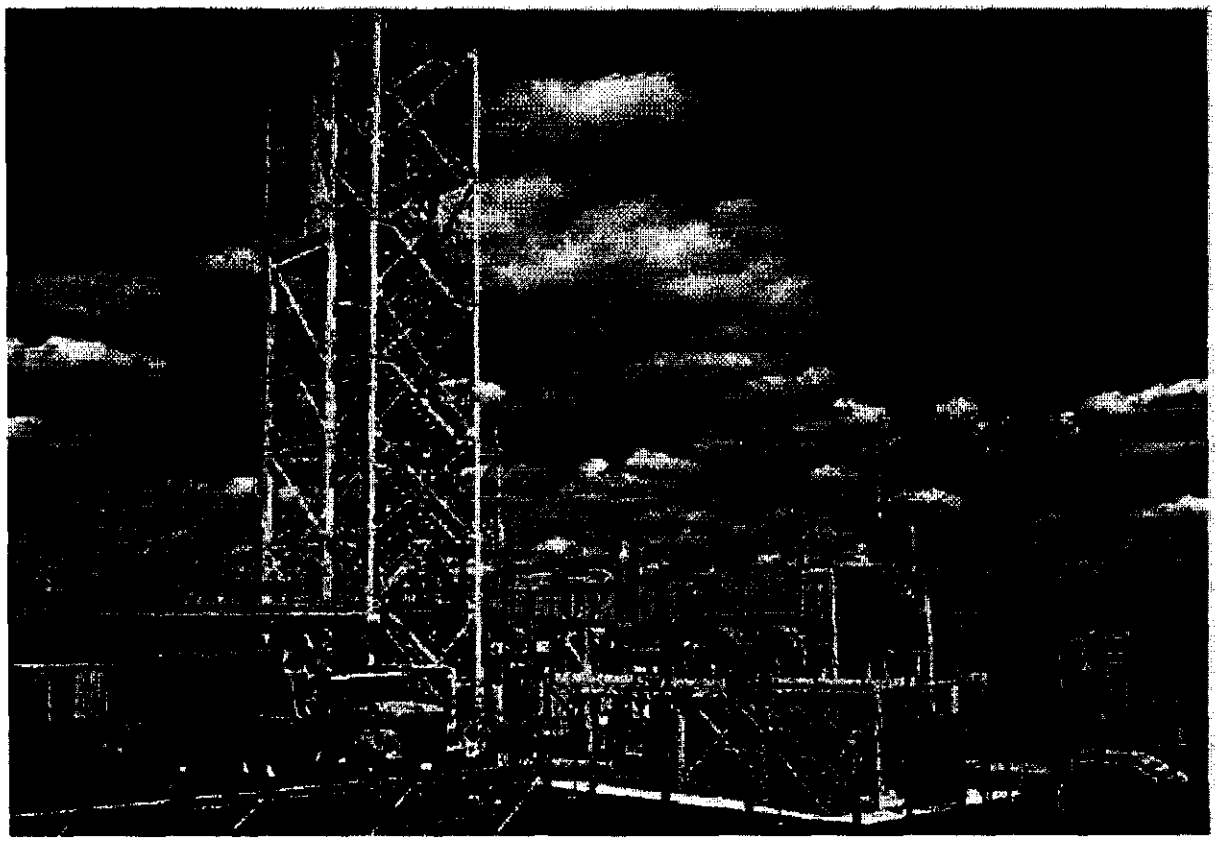
GROUT TREATMENT FACILITY
AERIAL VIEW



46°33'04"
119°30'44"

39202084.2
(PHOTO TAKEN 1991)

GROUT TREATMENT FACILITY

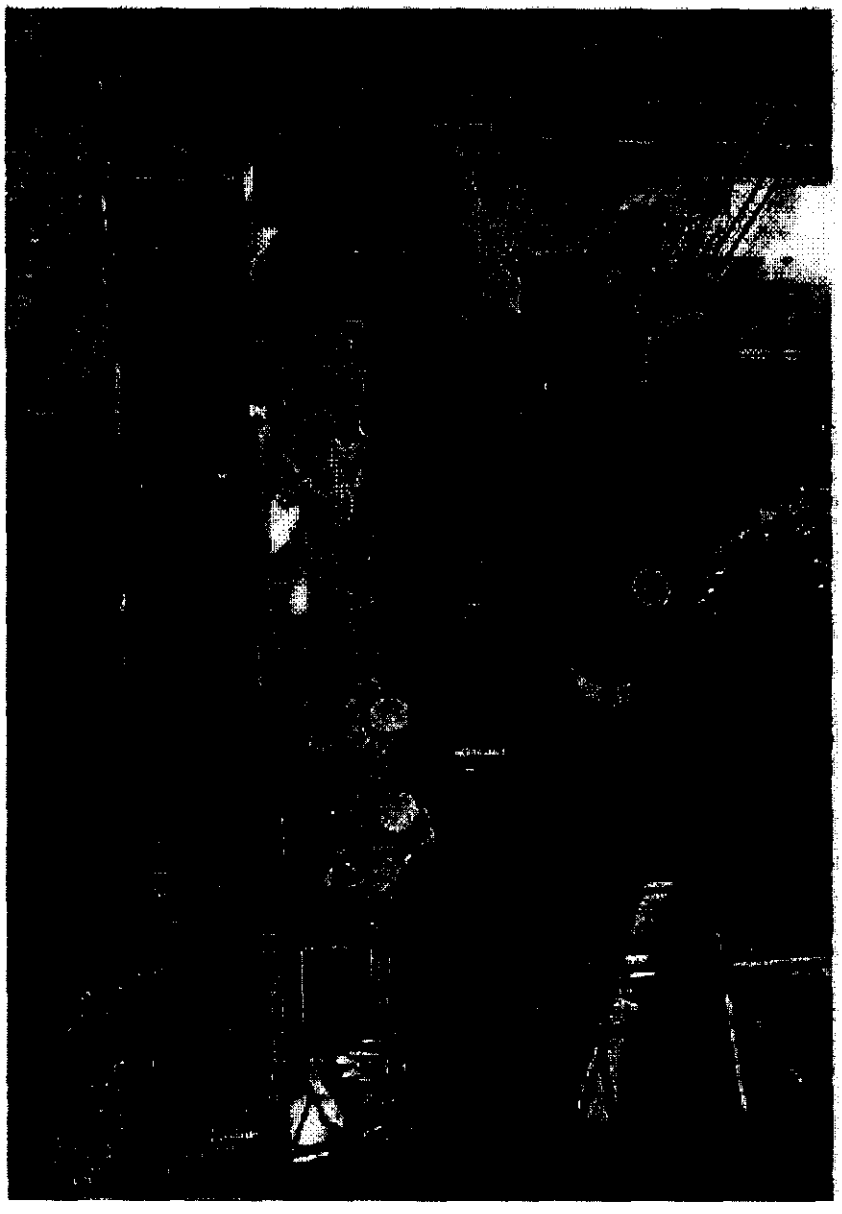


GROUT PROCESSING FACILITY

46°33'04"
119°30'44"

8802516-9CH
(PHOTO TAKEN 1988)

GROUT TREATMENT FACILITY



LIQUID COLLECTION TANK

46°33'04"
119°30'44"

8800284-1CN
(PHOTO TAKEN 1988)

DOE/RL-88-21
Grout Treatment Facility
Rev. 7, 12/21/99

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

ORM 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
		Pending Approval

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 at the checklist (III-C).*

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 at 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	E
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		

DOE/RL-88-21
B Plant Complex
Rev. 8, 11/22/99

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

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 codes in the space provided. If a process will be used that is not included in the listed 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 best describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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
LAND APPLICATION	D82	ACRES OR HECTARES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
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	F
LITERS	L	TONS PER HOUR	D	HECTARE-METER	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	P
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING SECTION III (shown in the 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 1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY
X1	S02	800	G	
X2	T03	20	E	
1	S02	811,280	L	
2	T01	107,126	V	
3	S01	51,008	L	
4	S06	35,170	C	
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.

B-Plant, which was constructed in 1943 and began operation in April of 1945, is located in the northwestern portion of the 200 East Area. The first mission for B Plant was the recovery of plutonium using a bismuth phosphate chemical separation process (1945 to 1952). In the early 1960's, B Plant was modified for a second mission, the recovery and purification of cesium and strontium. The cesium and strontium were encapsulated and stored in the Waste Encapsulation and Storage Facility (WESF).

Presently, the B Plant Complex consists of the main facility (221-B) and various support structures (Figure 3 and 4). The B Plant Complex contains five dangerous waste storage and/or treatment tank systems, Cell 4 container storage, and containment building storage. Most waste handling activities were conducted in the 221-B Building. The 221-B Building used a remote process cell design to house the process tanks and associated equipment. A typical cell is 5.5 meters long by 3.9 meters wide by 8.5 meters deep. Each cell is covered with four concrete cover blocks. In addition, the 221-B Building is made of reinforced concrete and is 259.1 meters long by 20.7 meters wide by 22.5 meters high, covering an area of 5,369.8 square meters. Additional operations also were carried out in the 221-BB Building, the 221-BF Facility, and the 276-BA Facility. (Refer to the B Plant Complex Vessel Table, following.)

S02/T01

NEUTRALIZED CURRENT ACID WASTE (NCAW) TREATMENT AND STORAGE SYSTEM: The NCAW treatment storage system is located in 221-B Building. The NCAW was transferred to the B Plant Complex (221-B Building) for the Tank Waste Remediation pretreatment project. The NCAW inventory was transferred back to the Double-Shell Tank (DST) System in May 1993 after the Tank Waste Remediation pretreatment project was canceled. Although no waste currently is being stored or treated, and there is no intention of future storage or treatment of any waste in this tank system, the system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

LOW-LEVEL WASTE (LLW) TREATMENT AND STORAGE SYSTEM: The LLW treatment and storage system is located within the 221-B Building. Treatment of low-level waste (to meet DST System acceptance standards) included the addition of sodium hydroxide until the pH is greater than 12.0. Treatment also included the addition of sodium nitrate until the nitrite concentration is above 600 parts per million and any other chemicals required to meet the acceptance criteria. The low-level waste tank storage was intended for waste generated at the 221-B Building and WESF that was not being transferred within 90 days to the DST System. There is no intent or plan to store low-level waste at the 221-B Building from other sources. Although no waste currently is being stored or treated, and there is no intention of future storage or treatment of any waste in this tank system, the system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

LOW-LEVEL WASTE CONCENTRATOR: The low-level waste concentrator (formerly known as the single-stage thermal siphon reboiler), located in Cell 23 of the 221-B Building, was operated to concentrate the low-level waste in the low-level waste storage and treatment tank system. The low-level waste concentrator is a thermal siphon and shell and tube heat exchanger. This system currently is inactive with no intention of resuming operation and is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

ORGANIC MIXED WASTE STORAGE: The organic mixed waste storage tank system was used to store organic mixed waste used in recovery and purification of strontium and cesium. The system consists of vessels located in the 221-B Building and in 276-BA Facility. The organic mixed waste was transferred to an off-site TSD facility for disposal by incineration in late 1997. This system currently is inactive with no intention of resuming operation and is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

ISO WEST TANK CLOSURE: The 276-BA Facility was constructed with two identical storage tanks. Of these two tanks, the ISO West tank never managed organic mixed waste. In 1998, the ISO West tank was administratively closed (98-EAP-136, Letter, James E Rasmussen, RL, to R. E. Skinnerland, Ecology, CERTIFIED ISO WEST INTERIM ORGANIC STORAGE TANK (ISO WEST TANK) ADMINISTRATIVE CLOSURE TECHNICAL DATA SYNOPSIS (TSD: TS-2-3), dated March 4, 1998; Letter Shri Mohan, Ecology, to James Rasmussen, RL, RE: APPROVAL OF THE PROCEDURAL CLOSURE OF THE B PLANT INTERNATIONAL STANDARDS ORGANIZATION (ISO) WEST TANK ADMINISTRATIVE CLOSURE, dated October 20, 1998). The ISO West tank has been removed from the B Plant Complex for use elsewhere on the Hanford Site.

MISCELLANEOUS TANKS STORAGE SYSTEM: The miscellaneous tanks are located in the 221-B Building, the 221-BB Building, and the 221-BF Facility. The miscellaneous tanks in the B Plant Complex that managed mixed waste after the 1987 date of regulation for mixed waste in the state of Washington are identified on the B Plant Complex Vessel Table. This system currently is inactive with no intention of using these tanks for future waste management activities. This system is included to reflect past operations. (Refer to the B Plant Complex Vessel Table, following.)

S01

CELL 4 CONTAINER STORAGE: The 221-B Building Cell 4 containerized waste storage unit is used for the storage of 208 liter (55-gallon) containers. Waste stored in Cell 4 containers consists of solid mixed waste with no free liquids. Waste stored in Cell 4 includes light bulbs with lead solder. There is no intent to receive additional waste in Cell 4. The maximum design capacity for container storage is 51,008 liters.

S06

CONTAINMENT BUILDING/STORAGE: The designation S06 (containment building/storage) has been used to indicate that the solid mixed waste

stored in the 221-B Building (on the canyon deck and in various cells) is considered to be in a containment building subject to the requirements of 40 CFR 265, Subpart DD and WAC 173-303-400(3)(a). The solid mixed waste consists of radioactively contaminated failed canyon process equipment, jumpers and lead shielding materials. The failed canyon process equipment and jumpers (or isolated components thereof) contain lead used as weights, counterweights, or radioactive shielding. The lead shielding materials include lead blankets, lead sheets, lead bricks, and lead window glass. The solid mixed waste also could be contaminated with residues from the processing of tank waste. Future additions of waste to the containment building will be restricted to the types of waste described above. The maximum storage capacity is 35,170 cubic meters.

B PLANT COMPLEX VESSEL TABLE

NEUTRALIZED CURRENT ACID WASTE (NCAW) TREATMENT AND STORAGE SYSTEM		
Vessel ID	Location	Capacity (liters)
TK-6-2	221-B, Cell 6	19,684
TK-7-1	221-B, Cell 7	19,306
TK-7-2	221-B, Cell 7	18,927
TK-8-1	221-B, Cell 8	19,684
TK-8-2	221-B, Cell 8	19,684
TK-13-1	221-B, Cell 13	15,142
TK-14-2	221-B, Cell 14	14,763
TK-29-3	221-B, Cell 29	15,520
TK-39-2	221-B, Cell 39	6,814
TK-39-5	221-B, Cell 39	7,571

LOW-LEVEL WASTE (LLW) TREATMENT AND STORAGE SYSTEM		
Vessel ID	Location	Capacity (liters)
TK-9-1	221-B, Cell 9	19,684
TK-9-2	221-B, Cell 9	19,684
TK-10-1	221-B, Cell 10	37,839
TK-24-1	221-B, Cell 24	52,616
TK-25-1	221-B, Cell 25	18,548
TK-25-2	221-B, Cell 25	18,548
TK-26-3	221-B, Cell 26	9,922
TK-39-1	221-B, Cell 39	13,120
NCAW and LLW storage capacity*		347,056
NCAW and LLW treatment capacity*		79,493 per day

LOW-LEVEL WASTE (LLW) CONCENTRATOR		
Vessel ID	Location	Capacity (liters)
E-23-3	221-B, Cell 23	11,356
E-23-3-1	221-B, Cell 23	0
E-23-3-2	221-B, Cell 23	0
D-23-2	221-B, Cell 23	0
E-23-4	221-B, Cell 23	0
TK-23-1	221-B, Cell 23	2,990
Storage capacity*		14,346
Treatment capacity*		27,633 per day

ORGANIC MIXED WASTE STORAGE SYSTEM		
Vessel ID	Location	Capacity (liters)
TK-26-1	221-B, Cell 26	14, 763
TK-27-2	221-B, Cell 27	7,571
TK-27-3	221-B, Cell 27	14,385
TK-27-4	221-B, Cell 27	1,060
TK-28-3	221-B, Cell 28	14,385
TK-28-4	221-B, Cell 28	1,060
TK-29-4	221-B, Cell 29	492
TK-30-3	221-B, Cell 30	15, 520
ISO EAST	276-BA	17,500
Storage capacity*		86,736

MISCELLANEOUS TANK SYSTEM		
Vessel ID	Location	Capacity (liters)
E-5-2	221-B, Cell 5	1,639
TK-17-1	221-B, Cell 17	18,700
TK-17-2	221-B, Cell 17	18,908
T-18-2	221-B, Cell 18	11,761
TK-18-3	221-B, Cell 18	2,794
E-20-2	221-B, Cell 20	1,552
TK-21-1	221-B, Cell 21	53,272
TK-22-1	221-B, Cell 22	1,775
T-28-1	221-B, Cell 28	2,642
TK-29-2	221-B, Cell 29	15,077
T-30-1	221-B, Cell 30	2,634
TK-32-1	221-B, Cell 32	15,024
TK-33-1	221-B, Cell 33	53,211
TK-34-2	221-B, Cell 34	15,520
TK-35-2	221-B, Cell 35	15,002
TK-36-1	221-B, Cell 36	15,547
TK-100	221-B, Canyon Deck	15,122
BCP	221-BB	2,271
BCS	221-BB	2,271
221-BF-A	221-BF	49,210
221-BF-B	221-BF	49,210
Storage Capacity*		363,142

* Treatment and storage capabilities are provided to reflect past operations. Current and/or future B Plant activities do not propose utilization of treatment or storage capacity beyond what has been agreed to for facility transition purposes under Section 8 of the Hanford Federal Facility Agreement and Consent Order.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the four digit number from Chapter 173-303 WAC for each listed dangerous waste you will be handling. For non-listed dangerous wastes which are not in Chapter 173-303 WAC, enter the four digit numbers that describe the characteristics and/or the EPA hazardous waste number of the dangerous waste.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled at the facility. For each characteristic or contaminant entered in column A estimate the total annual quantity of all the non-listed dangerous wastes that possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which may be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If waste is measured in 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:

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

For non-listed dangerous wastes: For each characteristic or EPA contaminant entered in Column A select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or have such contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) 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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the 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 "Included with above" and make no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from 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)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	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	D008	6,804	K	S01				Storage-Container
2	WT01		↓	↓				↓
3	WT02		↓	↓				Included With Above
4	D002	6,804	K	S06				Containment Building/Storage
	D004		↓	↓				↓
6	D005		↓	↓				↓
7	D006		↓	↓				↓
8	D007		↓	↓				↓
9	D008		↓	↓				↓

10	D009		↓	↓				↓
11	D010		↓	↓				↓
12	D011		↓	↓				↓
13	F001		↓	↓				↓
	F002		↓	↓				↓
	F003		↓	↓				↓
16	F004		↓	↓				↓
17	F005		↓	↓				↓
18	WT01		↓	↓				↓
19	WT02		↓	↓				Included With Above
20	D002	375,627*	K	S02				Storage-Tank
* The quantity of waste represents past operational activities. There are no plans to use these vessels for mixed waste activities.								
21	D004		↓	↓				↓
22	D005		↓	↓				↓
23	D006		↓	↓				↓
24	D007		↓	↓				↓
25	D008		↓	↓				↓
26	D009		↓	↓				↓
27	D010		↓	↓				↓
28	D011		↓	↓				↓
29	F001		↓	↓				↓
30	F002		↓	↓				↓
31	F003		↓	↓				↓
32	F004		↓	↓				↓
33	F005		↓	↓				↓
34	WT01		↓	↓				↓
35	WT02		↓	↓				Included With Above
	D002	90,992*	K	T01				Treatment -Tank
The quantity of waste represents past operational activities. There are no plans to use these vessels for mixed waste activities.								
37	D004		↓	↓				↓
38	D005		↓	↓				↓
39	D006		↓	↓				↓
40	D007		↓	↓				↓
41	D008		↓	↓				↓
42	D009		↓	↓				↓
43	D010		↓	↓				↓
44	D011		↓	↓				↓
45	F001		↓	↓				↓
46	F002		↓	↓				↓
47	F003		↓	↓				↓
48	F004		↓	↓				↓
49	F005		↓	↓				↓
50	WT01		↓	↓				↓
51	WT02		↓	↓				Included With Above
52	D002	1,085,878**	K	S02	T01			Storage - Tank/Treatment-Tank
** The quantity of waste represents past operational activities. There are no plans to use these vessels for mixed waste activities.								
53	D004		↓	↓	↓			↓
54	D005		↓	↓	↓			↓
55	D006		↓	↓	↓			↓
56	D007		↓	↓	↓			↓
	D008		↓	↓	↓			↓
58	D009		↓	↓	↓			↓
59	D010		↓	↓	↓			↓
60	D011		↓	↓	↓			↓
61	F001		↓	↓	↓			↓

62	F002		↓	↓	↓			↓
63	F003		↓	↓	↓			↓
64	F004		↓	↓	↓			↓
65	F005		↓	↓	↓			↓
	WT01		↓	↓	↓			↓
	WT02		↓	↓	↓			Included With Above
68								
69								
70								
71								

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	11/22/1999

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.

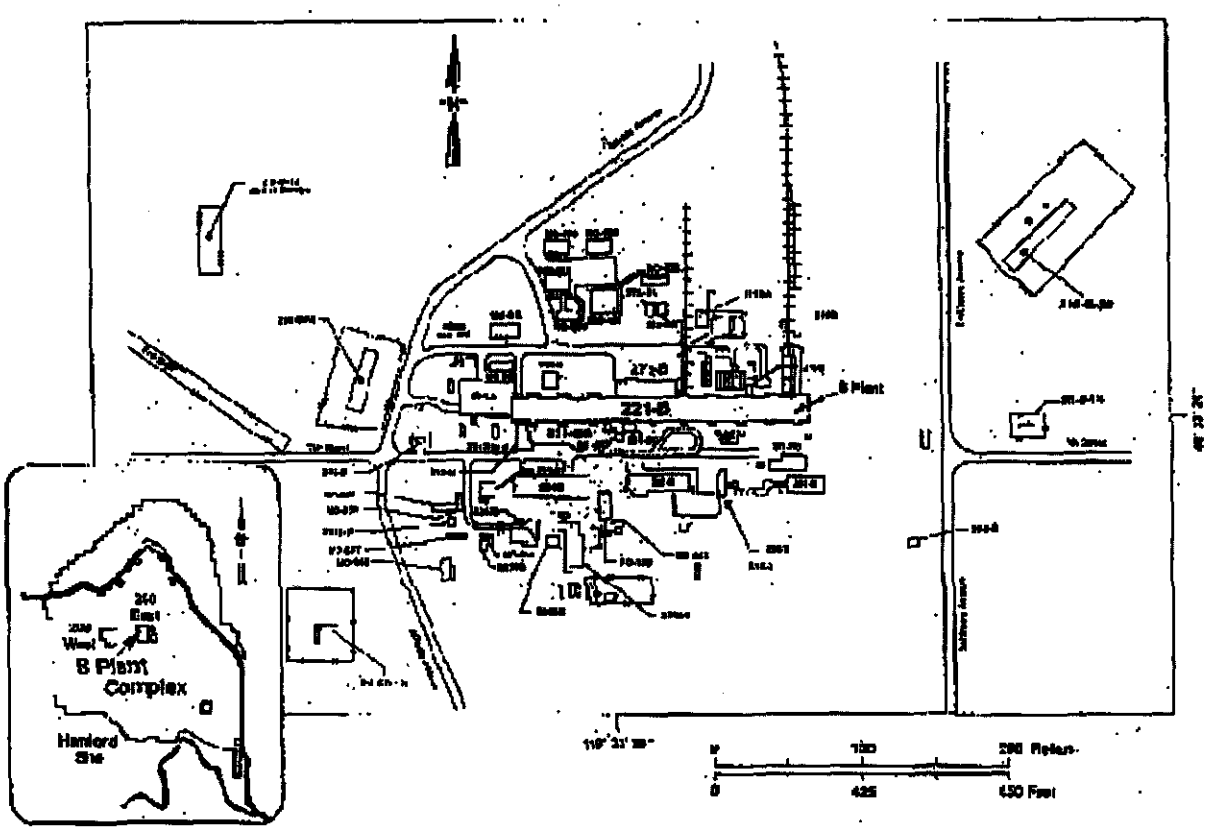
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

11/22/99
Date

Michael C. Hughes for
Co-Operator
S. D. Liedle, President
Bechtel Hanford, Inc.

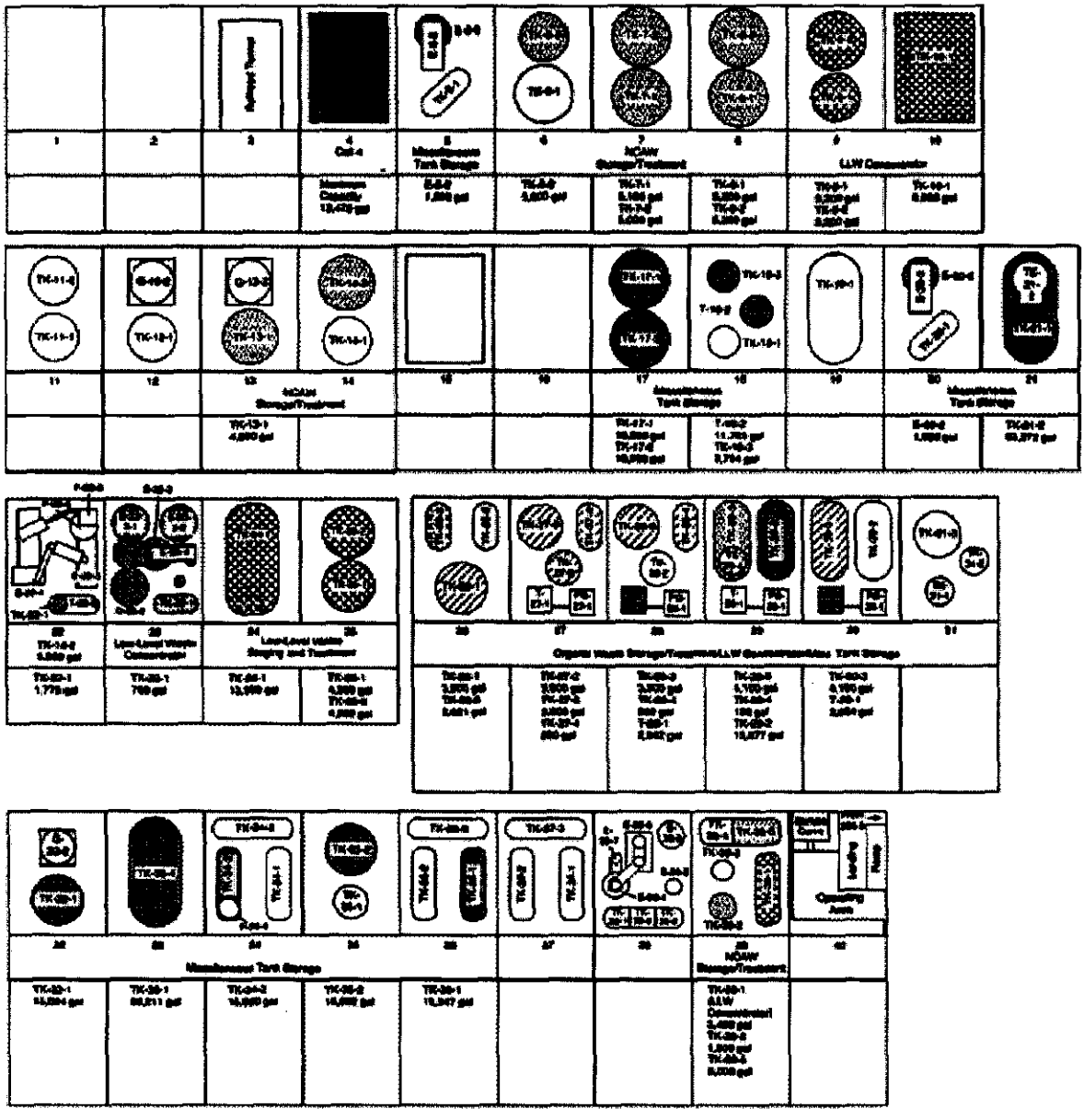
10/6/99
Date

B Plant Complex Site Plan

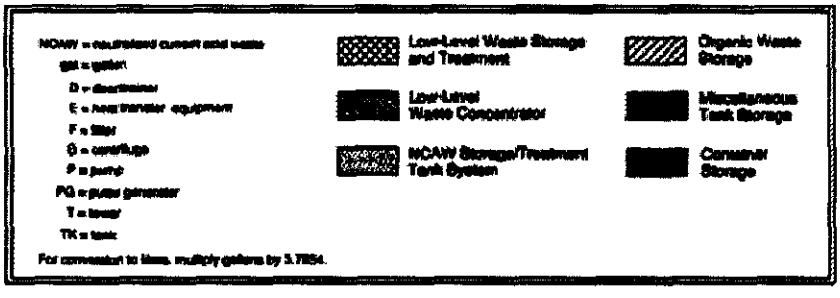


39404028.1

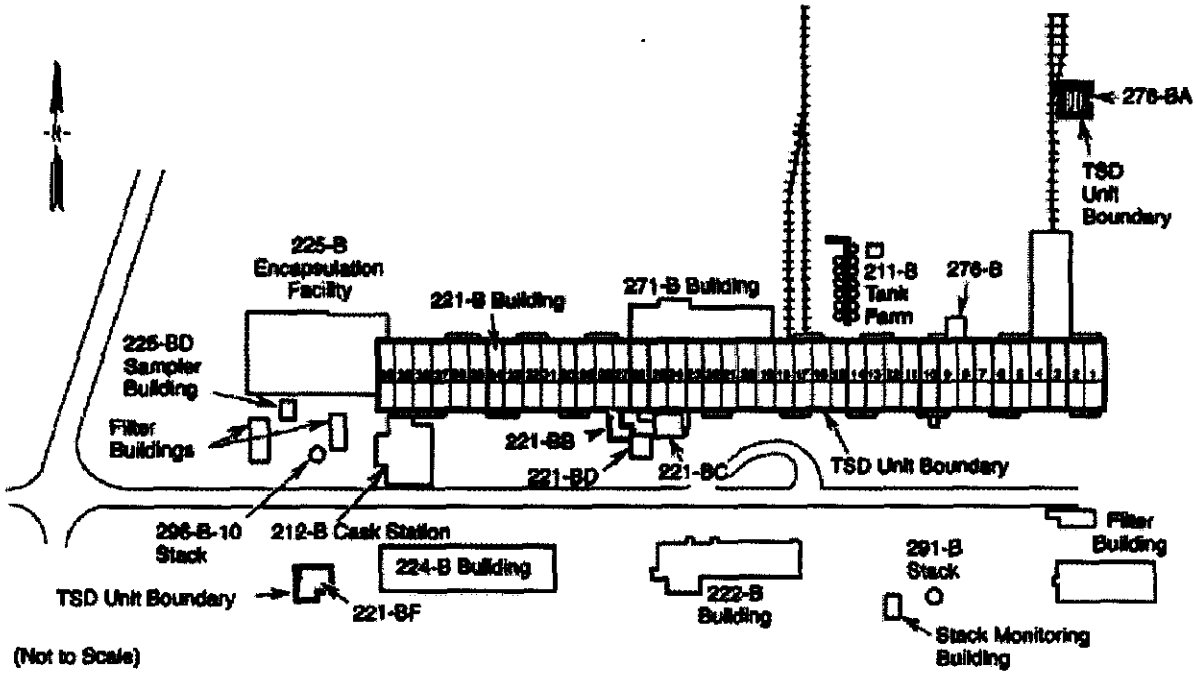
221-B Building Process Cells



Key:



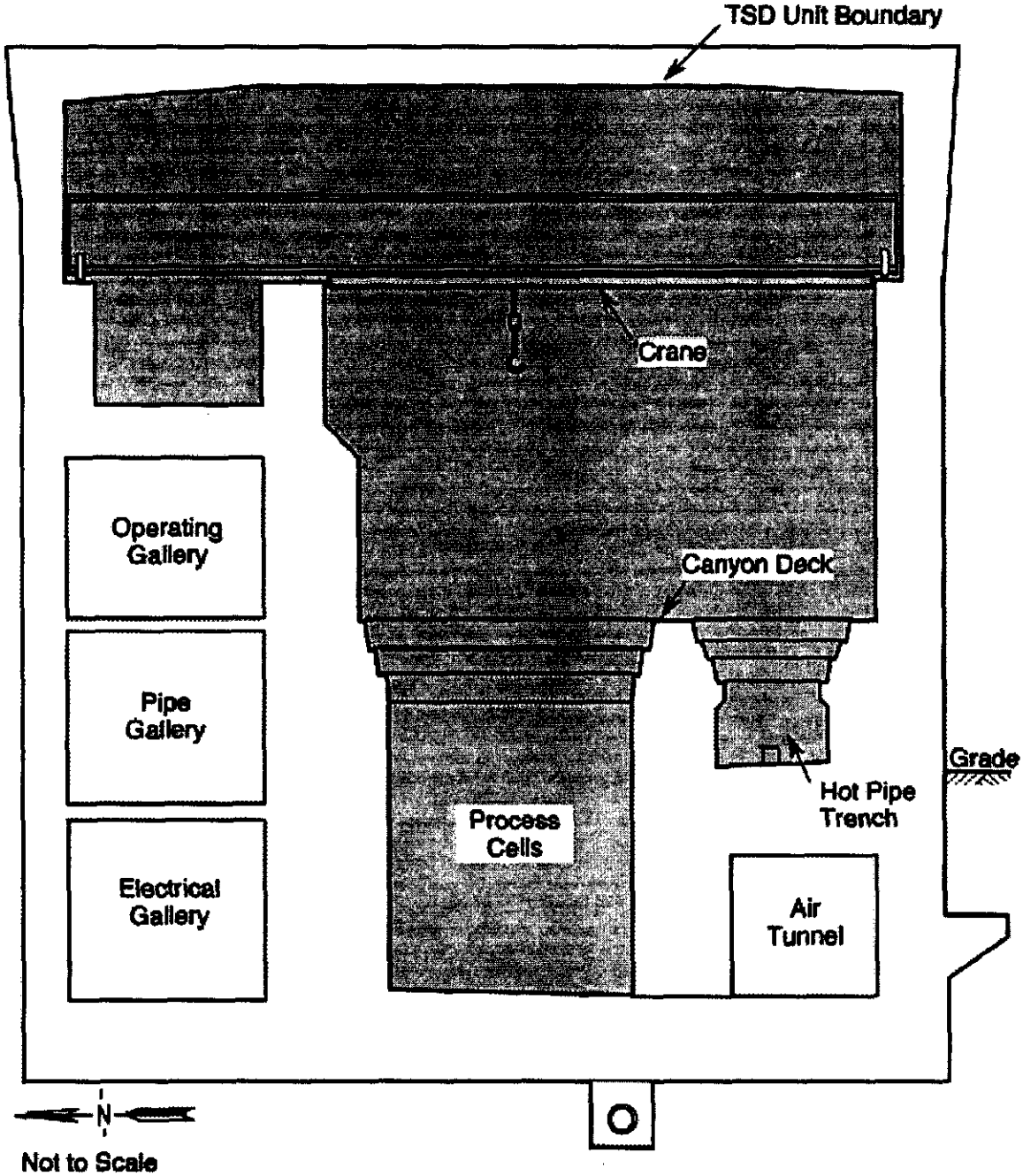
B Plant Cutaway (Typical)



Note: 221-BB, 221-BF, and 276-BA are included in the TSD Unit Boundary.
The railroad tunnel is not included in the TSD Unit Boundary.

H95110328.3r1w

B Plant Complex TSD Unit Boundary (typical cross-sectional view)



Not to Scale
Note: Shaded portions denote areas that are within the TSD Unit Boundary

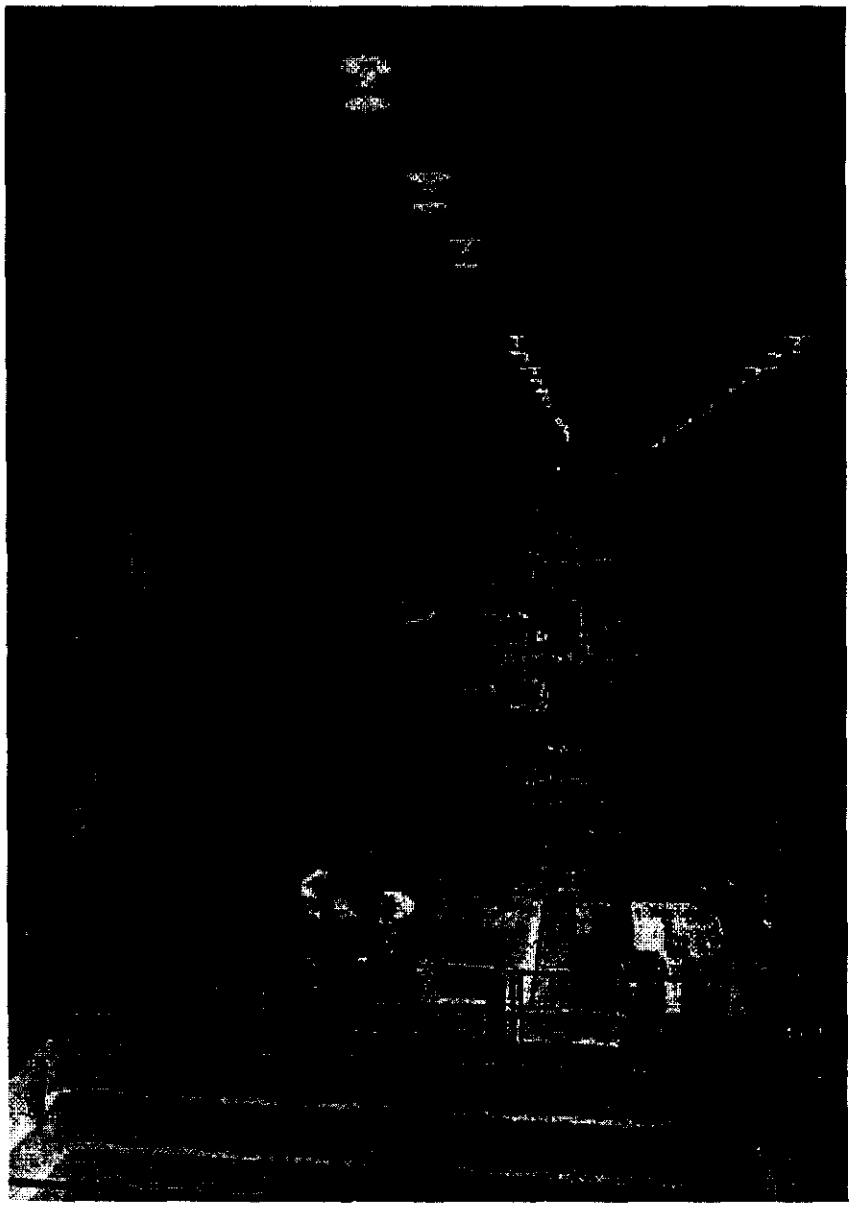
H96030202.1r1w

B PLANT COMPLEX
AERIAL VIEW

46°33'26"
119°32'28"

98070285-72CN
(PHOTO TAKEN 1998)

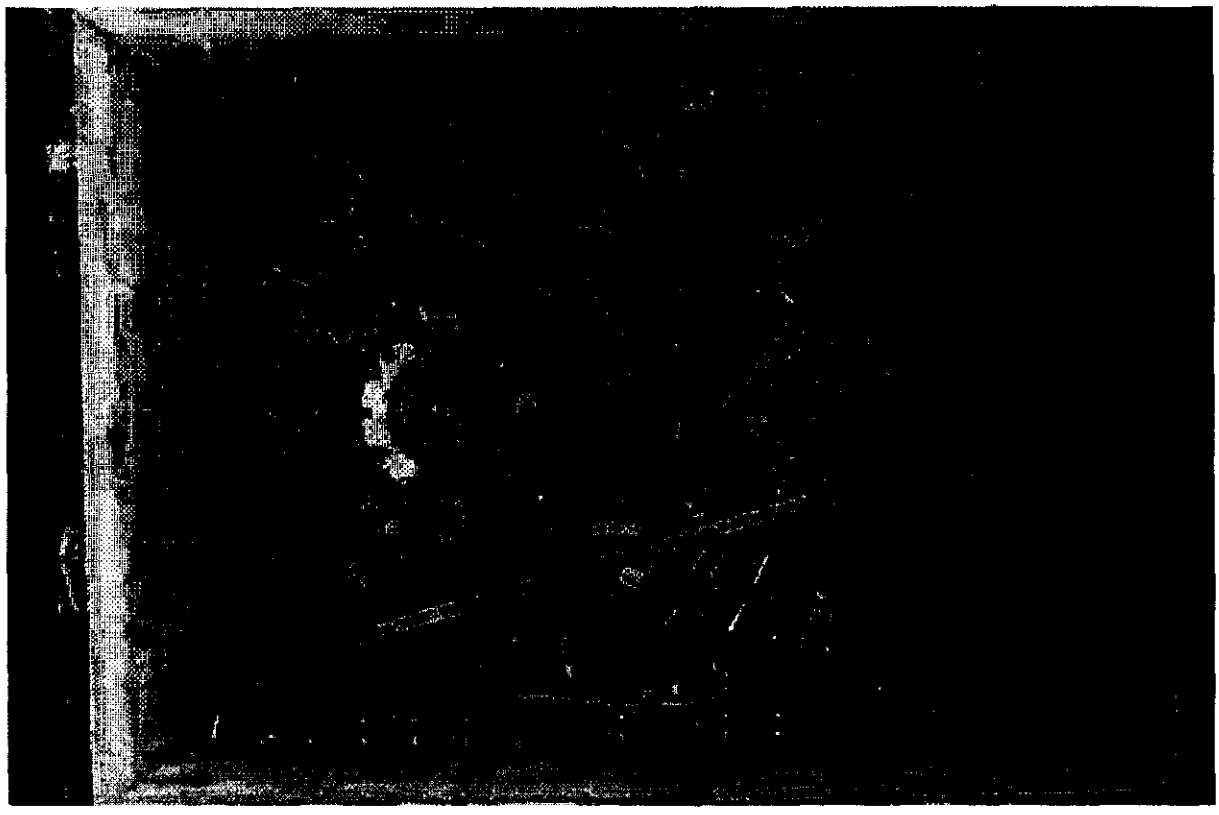
221-B BUILDING CANYON



46°33'26"
119°32'28"

98040211-8CN
(PHOTO TAKEN 1998)

221-B BUILDING
CELL 8

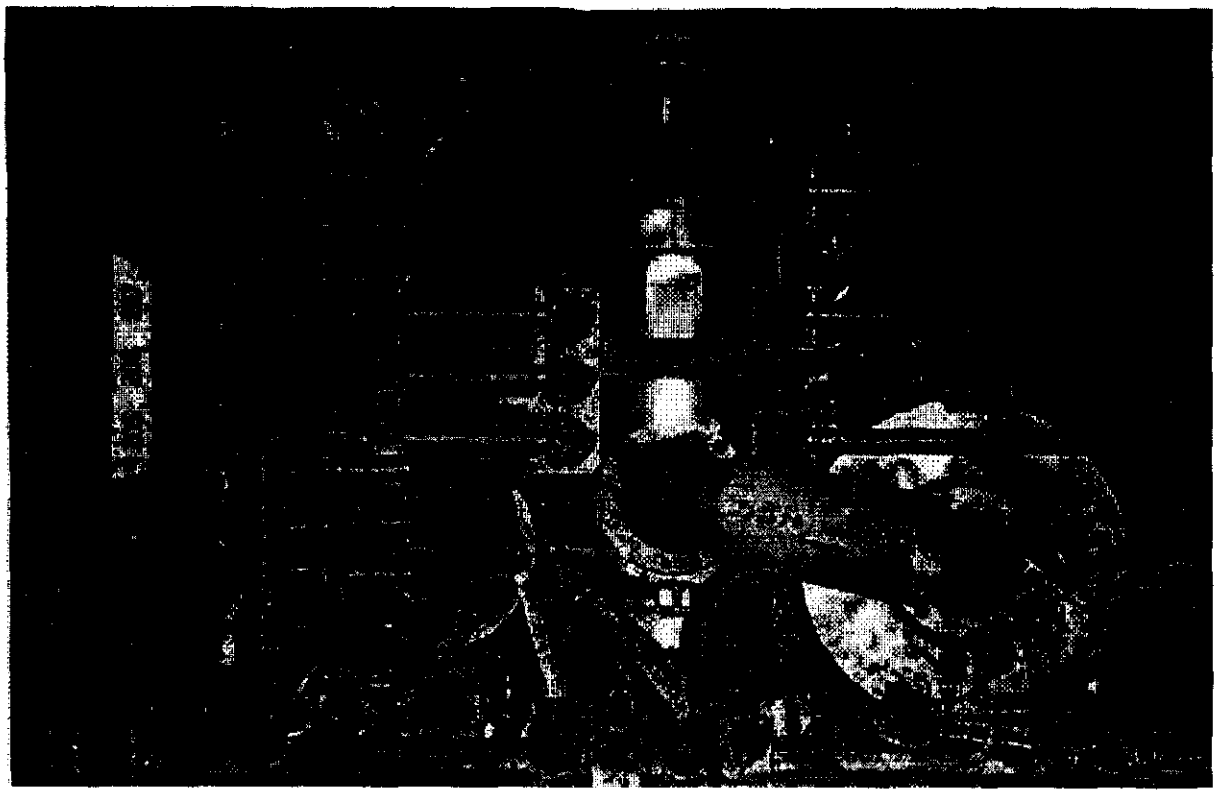


TOP VIEW - TYPICAL NCAW STORAGE AND TREATMENT TANK (TK-8-1 AND TK-8-2), TYPICAL CANYON CELL

46°33'26"
119°32'28"

83107243-11CN
(PHOTO TAKEN 1983)

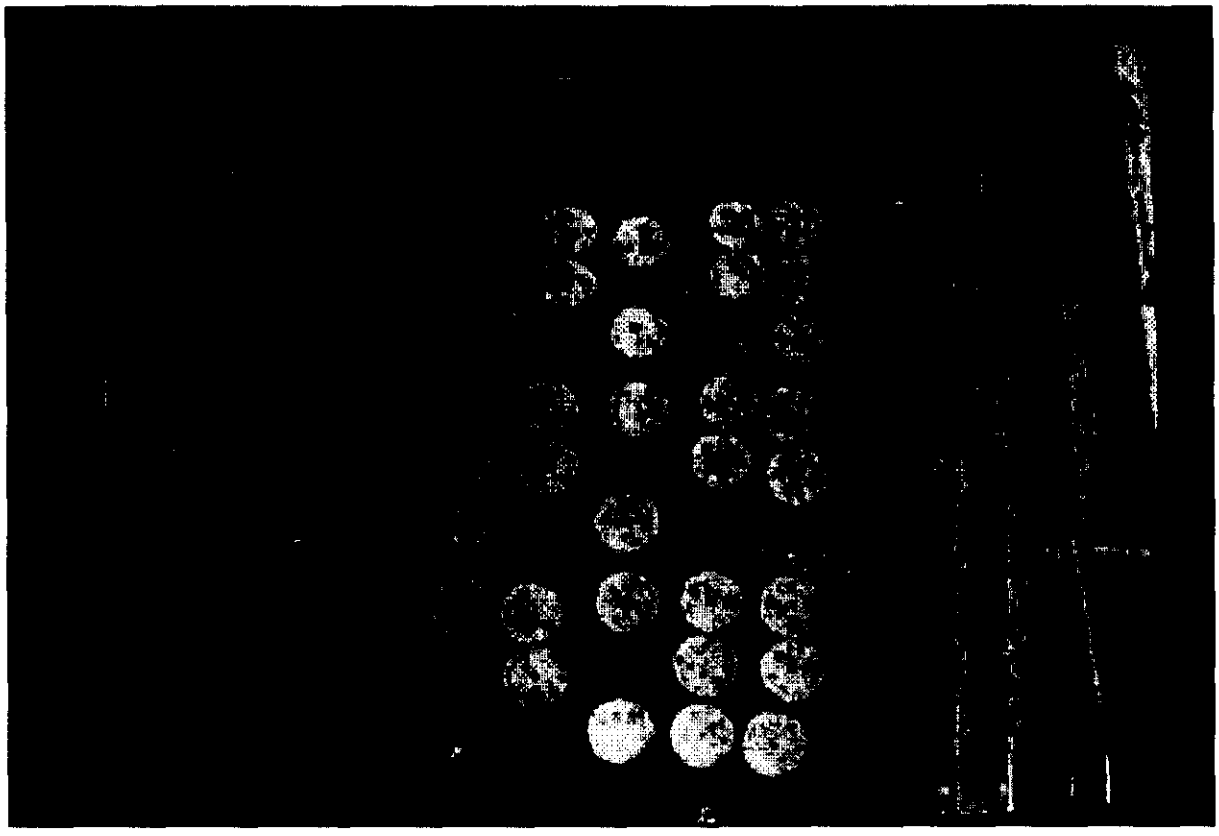
221-B BUILDING
CELL 23



TOP VIEW - LOW-LEVEL WASTE CONCENTRATOR
(TK-23-1, E-23-3, E-23-3-1, E-23-3-2, E-23-4, AND D-23-2)
46°33'26"
119°32'28"

83107243-40CN
(PHOTO TAKEN 1983)

221-B BUILDING
CELL 4

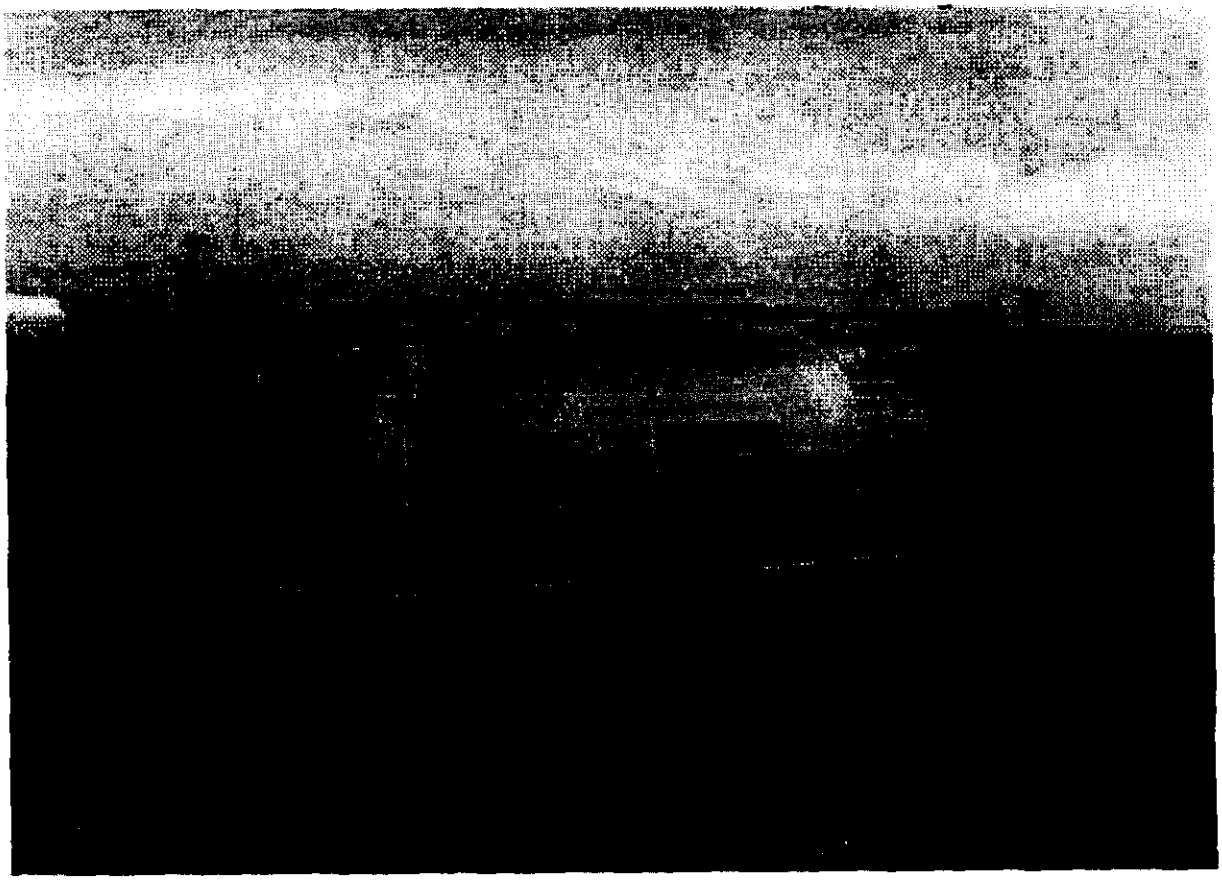


TOP VIEW - CONTAINER STORAGE

46°33'26"
119°32'28"

94040656-5CN
(PHOTO TAKEN 1994)

276-BA Facility
Organic Mixed Waste Storage System

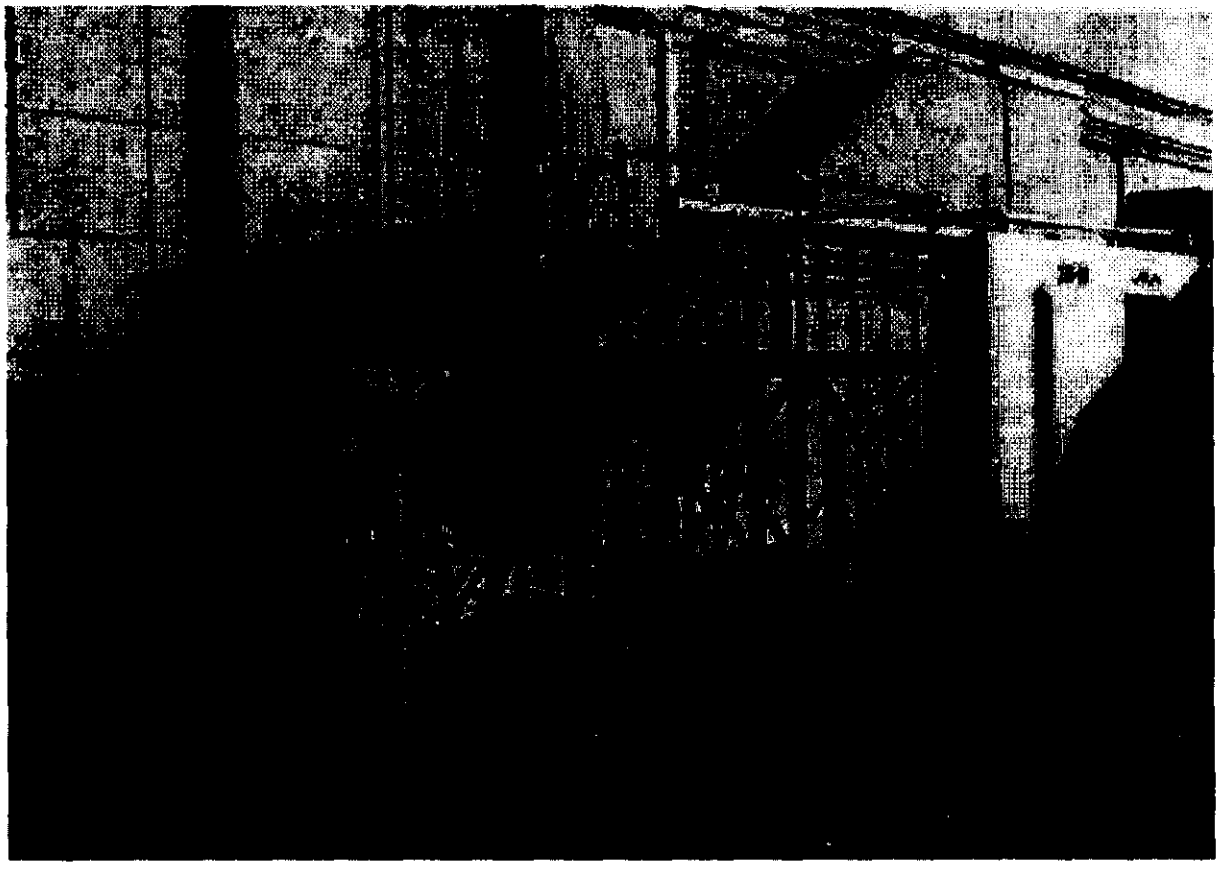


EXTERNAL ORGANIC MIXED WASTE STORAGE TANK (ISO EAST)

46°33'26"
119°32'28"

98110220-7CN
(PHOTO TAKEN 1998)

221-BB Building
Miscellaneous Tank Storage System



46°33'26"
119°32'28"

98100330-8CN
(PHOTO TAKEN 1998)

221-BF Facility
Miscellaneous Tank Storage System

46°33'26"
119°32'28"

98110220-4CN
(PHOTO TAKEN 1998)

DOE/RL-88-21
222-S Laboratory Complex
Rev. 8, 8/30/00

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/State I.D. No. W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/day/year)	Comments
		Pending Approval

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	YR
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.)

☐ 2. New Facility (Complete item below)

MO	DAY	YR

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 Codes - Enter the codes from the list of process codes below that best describe each process to be used at the facility. The lines are provided for entering up to ten process codes. If a process will be used that is not included in the list of codes below, then describe the process in the space provided. If a process will be used that is not included in the list of codes below, then describe the process in the space provided in Section III-C.

B. Process Design Capacity - For each process 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 appropriate unit of measure code from the table below. Only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASUREMENT FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic yards or cubic meters
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-meters
Land application	D82	Acres or hectares
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons or liters
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour or gallons per hour or liters per hour
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 in Section III-C.)	T04	Gallons per day or liters per day

Units of Measure	Unit of Measure Code	Units of Measure	Unit of Measure Code	Units of Measure	Unit of Measure Code
Gallons	G	Liters Per Day	V	Hectares	H
Liters	L	Pounds Per Hour	D	Pounds per hour	P
Cubic Yards	Y	Kilograms Per Hour	W	Acres	B
Cubic Meters	C	Gallons Per Hour	E	Tons	O
Gallons Per Day	U	Liters Per Hour	R		

PROCESSES -- CODES AND DESIGN CAPACITIES *(continued)*

[illegible] Section III above by the number of units. [illegible] two storage tanks [illegible] hold 200 gallons; the other can hold 400 gallons. The [illegible] incinerator that can burn up to 20 gallons per hour.

Line No.	A. Process Code *(from list above)*			B. Process Design Capacity 1. Amount *(specify)*	2. Unit of Measure *(enter code)*			For Official Use Only		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	S	0	2	37,200		L				
2	T	0	1	780		V				
3	S	0	1	28,470		L				
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.

The 222-S Laboratory Complex is located in the 200 West Area of the Hanford Facility and began waste management operations in June of 1951. The 222-S Laboratory complex consists of four waste management units: 219-S Waste Handling Facility, 222-S Dangerous and Mixed Waste Storage Area, and Rooms 2-B and 4-E.

The maximun design capacity for tank storage (S02) is 37,200 liters, tank treatment (T01) is 780 liters per day, and for container storage (S01) is 28,470 liters.

DESCRIPTION OF DANGEROUS WASTES

[illegible]

B. [illegible]

C. [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

D. [illegible]

1. [illegible]

[illegible]

2. [illegible]

[illegible]

3. [illegible]

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number are to be described on lines X1 and X2 below.

4. [illegible]

5. [illegible]

6. [illegible]

By [illegible] the facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from 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 reactive 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)*				D. Processes 2. Process Description *(if a code is not entered in D(1))*
X-1	K	0	8	1	1	1	1	P		T03	D80			
X-2	D	0	0	2	1	1	1	P		T03	D80			
X-3	D	0	0	2	1	1	1	P		T03	D80			
X-4	D	0	0	2	1	1	1	P		T03	D80			*included with above*

Photocopy this page before completing if you have more than 26 wastes to list.

Number *(enter from page 1)*
W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

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))*
1	D	0	0	1	283,955		K		S02	T01			Storage - Tank/Treatment - Tank
2	D	0	0	2			↓		↓	↓			↓
3	D	0	0	3			↓		↓	↓			↓
4	D	0	0	4			↓		↓	↓			↓
5	D	0	0	5			↓		↓	↓			↓
6	D	0	0	6			↓		↓	↓			↓
7	D	0	0	7			↓		↓	↓			↓
8	D	0	0	8			↓		↓	↓			↓
9	D	0	0	9			↓		↓	↓			↓
10	D	0	1	0			↓		↓	↓			↓
11	D	0	1	1			↓		↓	↓			↓
12	D	0	1	8			↓		↓	↓			↓
13	D	0	1	9			↓		↓	↓			↓
14	D	0	2	2			↓		↓	↓			↓
15	D	0	2	8			↓		↓	↓			↓
16	D	0	2	9			↓		↓	↓			↓
17	D	0	3	0			↓		↓	↓			↓
18	D	0	3	3			↓		↓	↓			↓
19	D	0	3	4			↓		↓	↓			↓
20	D	0	3	5			↓		↓	↓			↓
21	D	0	3	6			↓		↓	↓			↓
22	D	0	3	8			↓		↓	↓			↓
23	D	0	3	9			↓		↓	↓			↓
24	D	0	4	0			↓		↓	↓			↓
25	D	0	4	1			↓		↓	↓			↓
26	D	0	4	3			↓		↓	↓			↓
27	W	P	0	1			↓		↓	↓			↓
28	W	P	0	2			↓		↓	↓			↓
29	W	T	0	1			↓		↓	↓			↓
30	W	T	0	2			↓		↓	↓			↓
31	F	0	0	1			↓		↓	↓			↓
32	F	0	0	2			↓		↓	↓			↓
33	F	0	0	3			↓		↓	↓			↓
34	F	0	0	4			↓		↓	↓			↓
35	F	0	0	5			↓		↓	↓			↓
36	F	0	3	9			↓		↓	↓			Included with above
37	D	0	0	1	48,840		K		S01				Storage - Container
38	D	0	0	2			↓		↓				↓
39	D	0	0	3			↓		↓				↓
40	D	0	0	4			↓		↓				↓
41	D	0	0	5			↓		↓				↓
42	D	0	0	6			↓		↓				↓
43	D	0	0	7			↓		↓				↓

44	D	0	0	8			↓		↓				↓
45	D	0	0	9			↓		↓				↓
46	D	0	1	0			↓		↓				↓
47	D	0	1	1			↓		↓				↓
[illegible]	D	0	1	2			↓		↓				↓
49	D	0	1	3			↓		↓				↓
50	D	0	1	4			↓		↓				↓
51	D	0	1	5			↓		↓				↓
52	D	0	1	6			↓		↓				↓
53	D	0	1	7			↓		↓				↓
54	D	0	1	8			↓		↓				↓
55	D	0	1	9			↓		↓				↓
56	D	0	2	0			↓		↓				↓
57	D	0	2	1			↓		↓				↓
58	D	0	2	2			↓		↓				↓
59	D	0	2	3			↓		↓				↓
60	D	0	2	4			↓		↓				↓
61	D	0	2	5			↓		↓				↓
62	D	0	2	6			↓		↓				↓
63	D	0	2	7			↓		↓				↓
64	D	0	2	8			↓		↓				↓
65	D	0	2	9			↓		↓				↓
66	D	0	3	0			↓		↓				↓
67	D	0	3	1			↓		↓				↓
68	D	0	3	2			↓		↓				↓
69	D	0	3	3			↓		↓				↓
70	D	0	3	4			↓		↓				↓
71	D	0	3	5			↓		↓				↓
[illegible]	D	0	3	6			↓		↓				↓
73	D	0	3	7			↓		↓				↓
74	D	0	3	8			↓		↓				↓
75	D	0	3	9			↓		↓				↓
76	D	0	4	0			↓		↓				↓
77	D	0	4	1			↓		↓				↓
78	D	0	4	2			↓		↓				↓
79	D	0	4	3			↓		↓				↓
80	W	T	0	1			↓		↓				↓
81	W	T	0	2			↓		↓				↓
82	W	P	0	1			↓		↓				↓
83	W	P	0	2			↓		↓				↓
84	W	P	0	3			↓		↓				↓
85	W	0	0	1			↓		↓				↓
86	W	S	C	2			↓		↓				↓
87	F	0	0	1			↓		↓				↓
88	F	0	0	2			↓		↓				↓
89	F	0	0	3			↓		↓				↓
90	F	0	0	4			↓		↓				↓
91	F	0	0	5			↓		↓				↓
92	F	0	0	6			↓		↓				↓
93	F	0	0	7			↓		↓				↓
94	F	0	0	8			↓		↓				↓
95	F	0	0	9			↓		↓				↓
[illegible]	F	0	1	0			↓		↓				↓
97	F	0	1	1			↓		↓				↓
98	F	0	1	2			↓		↓				↓
99	F	0	1	9			↓		↓				↓

100	F	0	2	0			↓		↓				↓
101	F	0	2	1			↓		↓				↓
102	F	0	2	2			↓		↓				↓
103	F	0	2	3			↓		↓				↓
4	F	0	2	6			↓		↓				↓
105	F	0	2	7			↓		↓				↓
106	F	0	2	8			↓		↓				↓
107	F	0	3	9			↓		↓				↓
108	U	0	0	1			↓		↓				↓
109	U	0	0	2			↓		↓				↓
110	U	0	0	3			↓		↓				↓
111	U	0	0	4			↓		↓				↓
112	U	0	0	5			↓		↓				↓
113	U	0	0	6			↓		↓				↓
114	U	0	0	7			↓		↓				↓
115	U	0	0	8			↓		↓				↓
116	U	0	0	9			↓		↓				↓
117	U	0	1	0			↓		↓				↓
118	U	0	1	1			↓		↓				↓
119	U	0	1	2			↓		↓				↓
120	U	0	1	4			↓		↓				↓
121	U	0	1	5			↓		↓				↓
122	U	0	1	6			↓		↓				↓
123	U	0	1	7			↓		↓				↓
124	U	0	1	8			↓		↓				↓
125	U	0	1	9			↓		↓				↓
126	U	0	2	0			↓		↓				↓
127	U	0	2	1			↓		↓				↓
3	U	0	2	2			↓		↓				↓
129	U	0	2	3			↓		↓				↓
130	U	0	2	4			↓		↓				↓
131	U	0	2	5			↓		↓				↓
132	U	0	2	6			↓		↓				↓
133	U	0	2	7			↓		↓				↓
134	U	0	2	8			↓		↓				↓
135	U	0	2	9			↓		↓				↓
136	U	0	3	0			↓		↓				↓
137	U	0	3	1			↓		↓				↓
138	U	0	3	2			↓		↓				↓
139	U	0	3	3			↓		↓				↓
140	U	0	3	4			↓		↓				↓
141	U	0	3	5			↓		↓				↓
142	U	0	3	6			↓		↓				↓
143	U	0	3	7			↓		↓				↓
144	U	0	3	8			↓		↓				↓
145	U	0	3	9			↓		↓				↓
146	U	0	4	1			↓		↓				↓
147	U	0	4	2			↓		↓				↓
148	U	0	4	3			↓		↓				↓
149	U	0	4	4			↓		↓				↓
150	U	0	4	5			↓		↓				↓
151	U	0	4	6			↓		↓				↓
?	U	0	4	7			↓		↓				↓
153	U	0	4	8			↓		↓				↓
154	U	0	4	9			↓		↓				↓
155	U	0	5	0			↓		↓				↓

156	U	0	5	1			↓		↓				↓
157	U	0	5	2			↓		↓				↓
158	U	0	5	3			↓		↓				↓
159	U	0	5	5			↓		↓				↓
[illegible]	U	0	5	6			↓		↓				↓
161	U	0	5	7			↓		↓				↓
162	U	0	5	8			↓		↓				↓
163	U	0	5	9			↓		↓				↓
164	U	0	6	0			↓		↓				↓
165	U	0	6	1			↓		↓				↓
166	U	0	6	2			↓		↓				↓
167	U	0	6	3			↓		↓				↓
168	U	0	6	4			↓		↓				↓
169	U	0	6	6			↓		↓				↓
170	U	0	6	7			↓		↓				↓
171	U	0	6	8			↓		↓				↓
172	U	0	6	9			↓		↓				↓
173	U	0	7	0			↓		↓				↓
174	U	0	7	1			↓		↓				↓
175	U	0	7	2			↓		↓				↓
176	U	0	7	3			↓		↓				↓
177	U	0	7	4			↓		↓				↓
178	U	0	7	5			↓		↓				↓
179	U	0	7	6			↓		↓				↓
180	U	0	7	7			↓		↓				↓
181	U	0	7	8			↓		↓				↓
182	U	0	7	9			↓		↓				↓
183	U	0	8	0			↓		↓				↓
[illegible]	U	0	8	1			↓		↓				↓
185	U	0	8	2			↓		↓				↓
186	U	0	8	3			↓		↓				↓
187	U	0	8	4			↓		↓				↓
188	U	0	8	5			↓		↓				↓
189	U	0	8	6			↓		↓				↓
190	U	0	8	7			↓		↓				↓
191	U	0	8	8			↓		↓				↓
192	U	0	8	9			↓		↓				↓
193	U	0	9	0			↓		↓				↓
194	U	0	9	1			↓		↓				↓
195	U	0	9	2			↓		↓				↓
196	U	0	9	3			↓		↓				↓
197	U	0	9	4			↓		↓				↓
198	U	0	9	5			↓		↓				↓
199	U	0	9	6			↓		↓				↓
200	U	0	9	7			↓		↓				↓
201	U	0	9	8			↓		↓				↓
202	U	0	9	9			↓		↓				↓
203	U	1	0	1			↓		↓				↓
204	U	1	0	2			↓		↓				↓
205	U	1	0	3			↓		↓				↓
206	U	1	0	5			↓		↓				↓
207	U	1	0	6			↓		↓				↓
[illegible]	U	1	0	7			↓		↓				↓
209	U	1	0	8			↓		↓				↓
210	U	1	0	9			↓		↓				↓
211	U	1	1	0			↓		↓				↓

212	U	1	1	1			↓		↓				↓
213	U	1	1	2			↓		↓				↓
214	U	1	1	3			↓		↓				↓
215	U	1	1	4			↓		↓				↓
[illegible]	U	1	1	5			↓		↓				↓
217	U	1	1	6			↓		↓				↓
218	U	1	1	7			↓		↓				↓
219	U	1	1	8			↓		↓				↓
220	U	1	1	9			↓		↓				↓
221	U	1	2	0			↓		↓				↓
222	U	1	2	1			↓		↓				↓
223	U	1	2	2			↓		↓				↓
224	U	1	2	3			↓		↓				↓
225	U	1	2	4			↓		↓				↓
226	U	1	2	5			↓		↓				↓
227	U	1	2	6			↓		↓				↓
228	U	1	2	7			↓		↓				↓
229	U	1	2	8			↓		↓				↓
230	U	1	2	9			↓		↓				↓
231	U	1	3	0			↓		↓				↓
232	U	1	3	1			↓		↓				↓
233	U	1	3	2			↓		↓				↓
234	U	1	3	3			↓		↓				↓
235	U	1	3	4			↓		↓				↓
236	U	1	3	5			↓		↓				↓
237	U	1	3	6			↓		↓				↓
238	U	1	3	7			↓		↓				↓
239	U	1	3	8			↓		↓				↓
[illegible]	U	1	4	0			↓		↓				↓
241	U	1	4	1			↓		↓				↓
242	U	1	4	2			↓		↓				↓
243	U	1	4	3			↓		↓				↓
244	U	1	4	4			↓		↓				↓
245	U	1	4	5			↓		↓				↓
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247	U	1	4	7			↓		↓				↓
248	U	1	4	8			↓		↓				↓
249	U	1	4	9			↓		↓				↓
250	U	1	5	0			↓		↓				↓
251	U	1	5	1			↓		↓				↓
252	U	1	5	2			↓		↓				↓
253	U	1	5	3			↓		↓				↓
254	U	1	5	4			↓		↓				↓
255	U	1	5	5			↓		↓				↓
256	U	1	5	6			↓		↓				↓
257	U	1	5	7			↓		↓				↓
258	U	1	5	8			↓		↓				↓
259	U	1	5	9			↓		↓				↓
260	U	1	6	0			↓		↓				↓
261	U	1	6	1			↓		↓				↓
262	U	1	6	2			↓		↓				↓
263	U	1	6	3			↓		↓				↓
[illegible]	U	1	6	4			↓		↓				↓
265	U	1	6	5			↓		↓				↓
266	U	1	6	6			↓		↓				↓
267	U	1	6	7			↓		↓				↓

268	U	1	6	8			↓		↓				↓
269	U	1	6	9			↓		↓				↓
270	U	1	7	0			↓		↓				↓
271	U	1	7	1			↓		↓				↓
[illegible]	U	1	7	2			↓		↓				↓
273	U	1	7	3			↓		↓				↓
274	U	1	7	4			↓		↓				↓
275	U	1	7	6			↓		↓				↓
276	U	1	7	7			↓		↓				↓
277	U	1	7	8			↓		↓				↓
278	U	1	7	9			↓		↓				↓
279	U	1	8	0			↓		↓				↓
280	U	1	8	1			↓		↓				↓
281	U	1	8	2			↓		↓				↓
282	U	1	8	3			↓		↓				↓
283	U	1	8	4			↓		↓				↓
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285	U	1	8	6			↓		↓				↓
286	U	1	8	7			↓		↓				↓
287	U	1	8	8			↓		↓				↓
288	U	1	8	9			↓		↓				↓
289	U	1	9	0			↓		↓				↓
290	U	1	9	1			↓		↓				↓
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292	U	1	9	3			↓		↓				↓
293	U	1	9	4			↓		↓				↓
294	U	1	9	6			↓		↓				↓
295	U	2	0	0			↓		↓				↓
[illegible]	U	2	0	1			↓		↓				↓
297	U	2	0	2			↓		↓				↓
298	U	2	0	3			↓		↓				↓
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300	U	2	0	5			↓		↓				↓
301	U	2	0	6			↓		↓				↓
302	U	2	0	7			↓		↓				↓
303	U	2	0	8			↓		↓				↓
304	U	2	0	9			↓		↓				↓
305	U	2	1	0			↓		↓				↓
306	U	2	1	1			↓		↓				↓
307	U	2	1	2			↓		↓				↓
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309	U	2	1	4			↓		↓				↓
310	U	2	1	5			↓		↓				↓
311	U	2	1	6			↓		↓				↓
312	U	2	1	7			↓		↓				↓
313	U	2	1	8			↓		↓				↓
314	U	2	1	9			↓		↓				↓
315	U	2	2	0			↓		↓				↓
316	U	2	2	1			↓		↓				↓
317	U	2	2	2			↓		↓				↓
318	U	2	2	3			↓		↓				↓
319	U	2	2	5			↓		↓				↓
[illegible]	U	2	2	6			↓		↓				↓
321	U	2	2	7			↓		↓				↓
322	U	2	2	8			↓		↓				↓
323	U	2	3	0			↓		↓				↓

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325	U	2	3	2			↓		↓				↓
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342	U	2	7	7			↓		↓				↓
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349	U	3	6	4			↓		↓				↓
350	U	3	6	5			↓		↓				↓
351	U	3	6	6			↓		↓				↓
?	U	3	6	7			↓		↓				↓
353	U	3	7	2			↓		↓				↓
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355	U	3	7	5			↓		↓				↓
356	U	3	7	6			↓		↓				↓
357	U	3	7	7			↓		↓				↓
358	U	3	7	8			↓		↓				↓
359	U	3	7	9			↓		↓				↓
360	U	3	8	1			↓		↓				↓
361	U	3	8	2			↓		↓				↓
362	U	3	8	3			↓		↓				↓
363	U	3	8	4			↓		↓				↓
364	U	3	8	5			↓		↓				↓
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366	U	3	8	7			↓		↓				↓
367	U	3	8	9			↓		↓				↓
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374	U	3	9	6			↓		↓				↓
375	U	4	0	0			↓		↓				↓
	U	4	0	4			↓		↓				↓
377	U	4	0	7			↓		↓				↓
378	U	4	0	9			↓		↓				↓
379	U	4	1	0			↓		↓				↓

380	U	4	1	1			↓		↓				↓
381	P	0	0	1			↓		↓				↓
382	P	0	0	2			↓		↓				↓
383	P	0	0	3			↓		↓				↓
4	P	0	0	4			↓		↓				↓
385	P	0	0	5			↓		↓				↓
386	P	0	0	6			↓		↓				↓
387	P	0	0	7			↓		↓				↓
388	P	0	0	8			↓		↓				↓
389	P	0	0	9			↓		↓				↓
390	P	0	1	0			↓		↓				↓
391	P	0	1	1			↓		↓				↓
392	P	0	1	2			↓		↓				↓
393	P	0	1	3			↓		↓				↓
394	P	0	1	4			↓		↓				↓
395	P	0	1	5			↓		↓				↓
396	P	0	1	6			↓		↓				↓
397	P	0	1	7			↓		↓				↓
398	P	0	1	8			↓		↓				↓
399	P	0	2	0			↓		↓				↓
400	P	0	2	1			↓		↓				↓
401	P	0	2	2			↓		↓				↓
402	P	0	2	3			↓		↓				↓
403	P	0	2	4			↓		↓				↓
404	P	0	2	6			↓		↓				↓
405	P	0	2	7			↓		↓				↓
406	P	0	2	8			↓		↓				↓
407	P	0	2	9			↓		↓				↓
8	P	0	3	0			↓		↓				↓
409	P	0	3	1			↓		↓				↓
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413	P	0	3	7			↓		↓				↓
414	P	0	3	8			↓		↓				↓
415	P	0	3	9			↓		↓				↓
416	P	0	4	0			↓		↓				↓
417	P	0	4	1			↓		↓				↓
418	P	0	4	2			↓		↓				↓
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421	P	0	4	5			↓		↓				↓
422	P	0	4	6			↓		↓				↓
423	P	0	4	7			↓		↓				↓
424	P	0	4	8			↓		↓				↓
425	P	0	4	9			↓		↓				↓
426	P	0	5	0			↓		↓				↓
427	P	0	5	1			↓		↓				↓
428	P	0	5	4			↓		↓				↓
429	P	0	5	6			↓		↓				↓
430	P	0	5	7			↓		↓				↓
431	P	0	5	8			↓		↓				↓
2	P	0	5	9			↓		↓				↓
433	P	0	6	0			↓		↓				↓
434	P	0	6	2			↓		↓				↓
435	P	0	6	3			↓		↓				↓

436	P	0	6	4			↓		↓				↓
437	P	0	6	5			↓		↓				↓
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439	P	0	6	7			↓		↓				↓
0	P	0	6	8			↓		↓				↓
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451	P	0	8	1			↓		↓				↓
452	P	0	8	2			↓		↓				↓
453	P	0	8	4			↓		↓				↓
454	P	0	8	5			↓		↓				↓
455	P	0	8	7			↓		↓				↓
456	P	0	8	8			↓		↓				↓
457	P	0	8	9			↓		↓				↓
458	P	0	9	2			↓		↓				↓
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463	P	0	9	7			↓		↓				↓
4	P	0	9	8			↓		↓				↓
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466	P	1	0	1			↓		↓				↓
467	P	1	0	2			↓		↓				↓
468	P	1	0	3			↓		↓				↓
469	P	1	0	4			↓		↓				↓
470	P	1	0	5			↓		↓				↓
471	P	1	0	6			↓		↓				↓
472	P	1	0	7			↓		↓				↓
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476	P	1	1	1			↓		↓				↓
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484	P	1	2	0			↓		↓				↓
485	P	1	2	1			↓		↓				↓
486	P	1	2	2			↓		↓				↓
487	P	1	2	3			↓		↓				↓
3	P	1	2	7			↓		↓				↓
489	P	1	2	8			↓		↓				↓
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492	P	1	8	9			↓		↓				↓
493	P	1	9	0			↓		↓				↓
494	P	1	9	1			↓		↓				↓
495	P	1	9	2			↓		↓				↓
6	P	1	9	4			↓		↓				↓
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499	P	1	9	8			↓		↓				↓
500	P	1	9	9			↓		↓				↓
501	P	2	0	1			↓		↓				↓
502	P	2	0	2			↓		↓				↓
503	P	2	0	3			↓		↓				↓
504	P	2	0	4			↓		↓				↓
505	P	2	0	5			↓		↓				Included with above.
506													
507													
508													
509													
510													

E. Use this space to list additional process codes from Section D(1) on page 3.

ACILITY 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	08/30/2000

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.

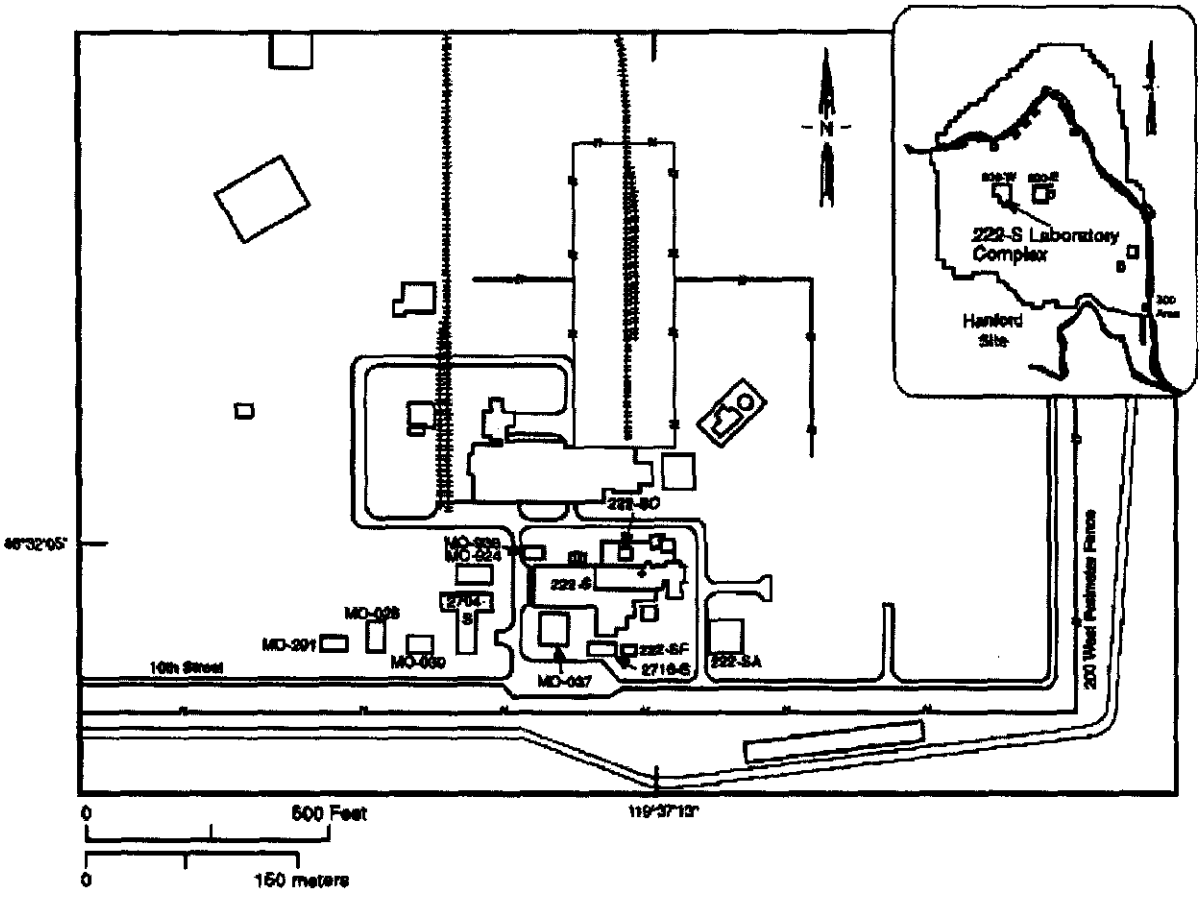
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

8/30/00
Date

Ron D. Hanson
Co-Operator
Ron D. Hanson
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

8/28/00
Date

222-S Laboratory Complex and Sorrounding Structures Site Plan



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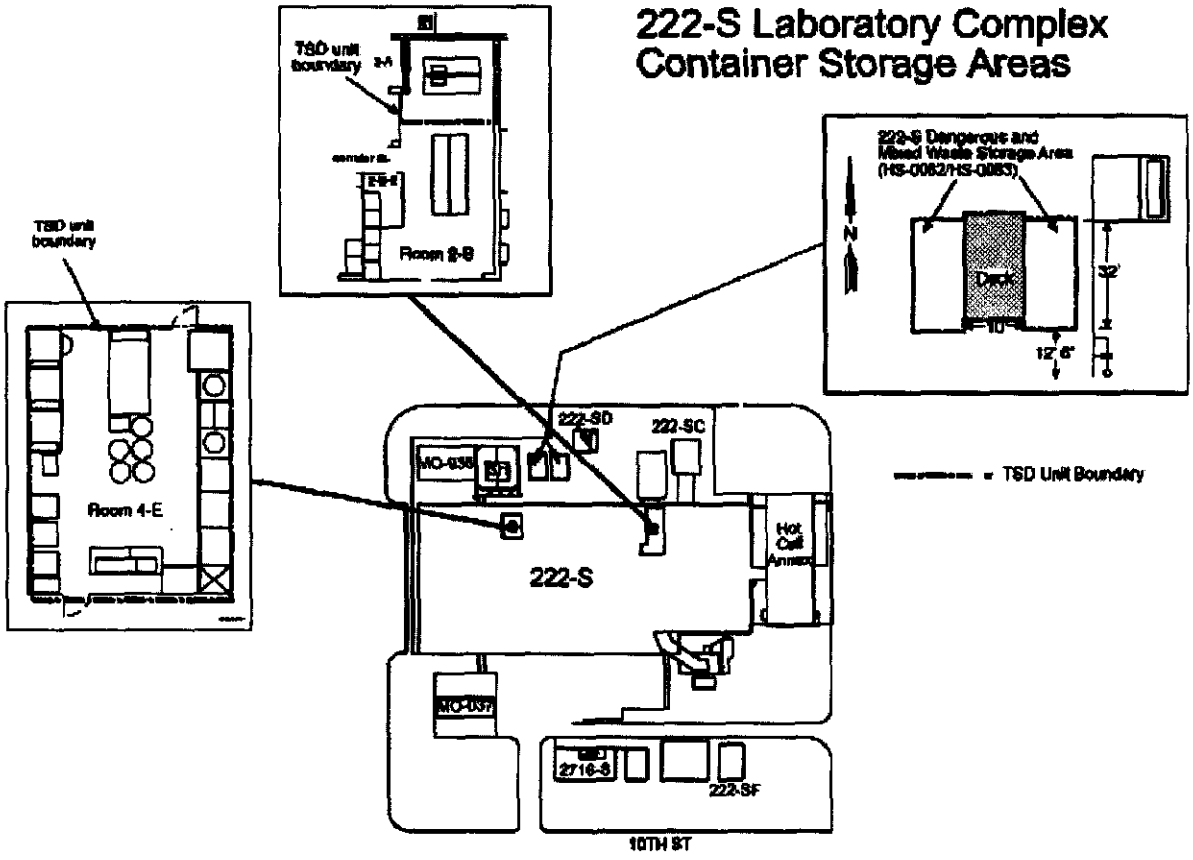

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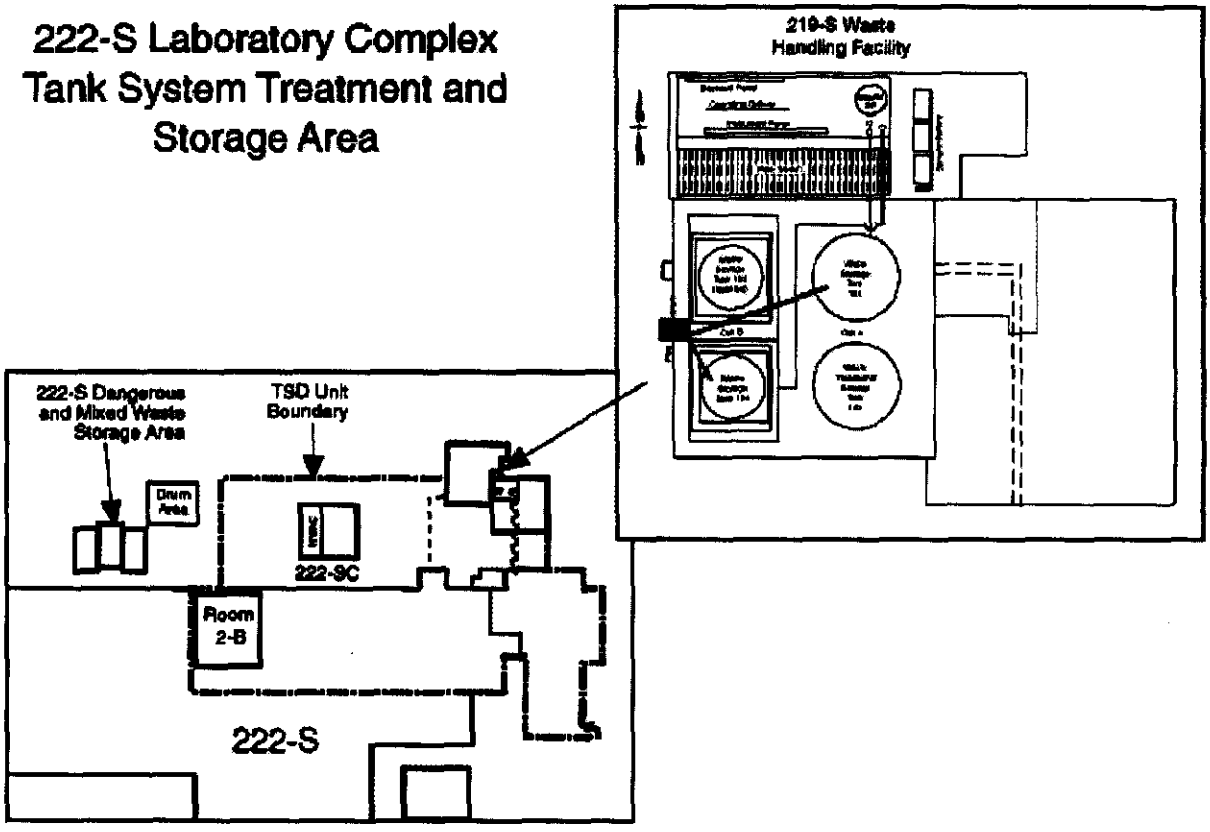
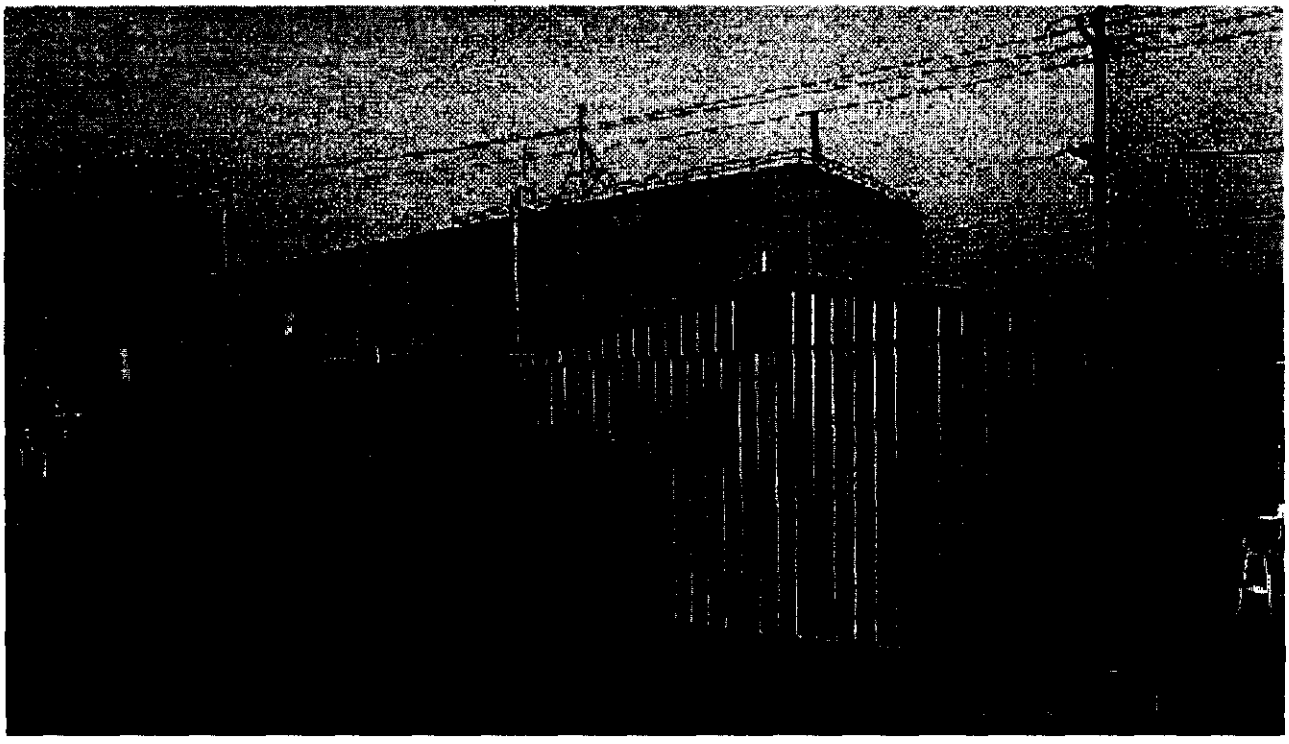


H00050073.76R1

222-S Laboratory Complex
219-S Waste Handling Facility



46°32'05"
119°37'13"

98110210-6.JPG
(PHOTO TAKEN 1998)

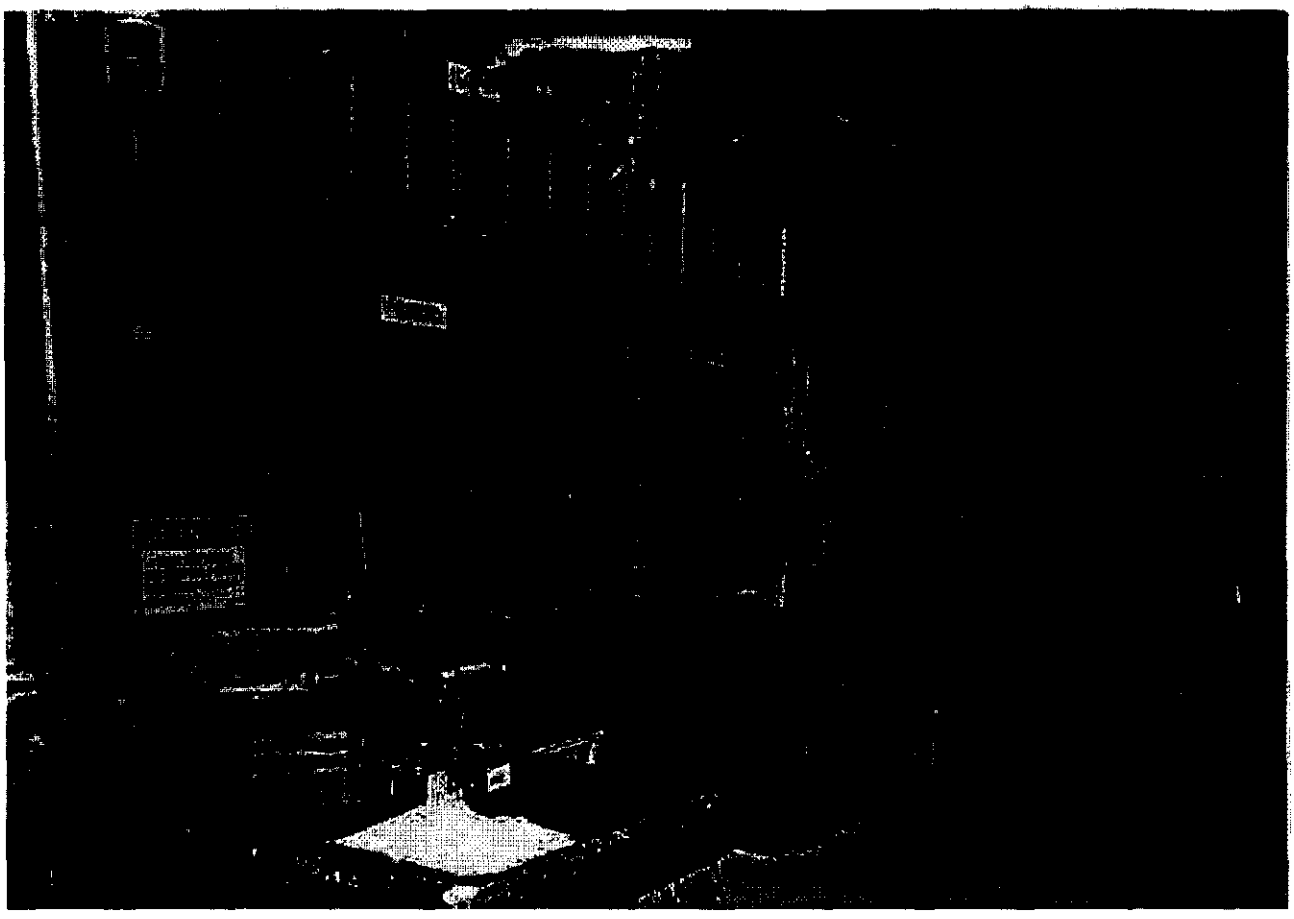
222-S Laboratory Complex
Dangerous and Mixed Waste Storage Area

METAL STORAGE STRUCTURES

46°32'05"
119°37'13"

98110210-13.JPG
(PHOTO TAKEN 1998)

222-S Laboratory Complex
Room 2-B

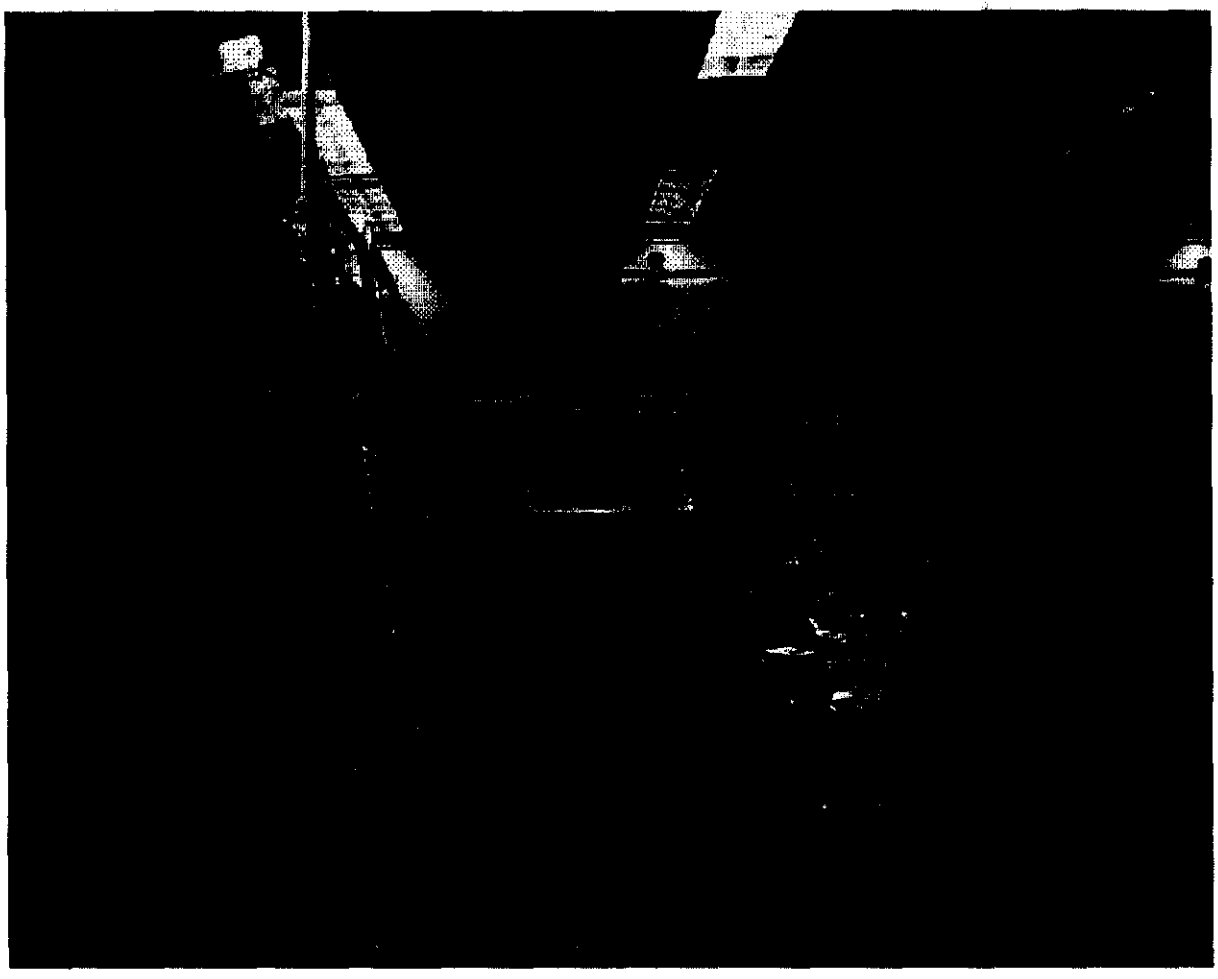


HOOD FOR TRANSFER OF WASTE TO 219-S WASTE HANDLING FACILITY

46°32'03"
119°37'15"

9702043-1CN
(PHOTO TAKEN 1997)

222-S Laboratory Complex
Room 4-E



46°32'03"
119°37'15"

00060190-6DF
(PHOTO TAKEN 2000)

DOE/RL-88-21
204-AR Waste Unloading Station
Rev. 5, 9/30/99

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

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. Tank and container storage codes, if more than one is needed, enter the codes 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).

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, and so on)	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	POUNDS PER HOUR OR KILOGRAMS PER HOUR, METRIC TONS PER HOUR OR SHORT 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 listing in tanks, surface impoundments or incinerators. Describe the processes in the space provided on 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	[illegible]	[illegible]
LITERS	L	TONS PER HOUR	O	[illegible]	[illegible]
CUBIC YARDS	Y	KILOGRAMS PER HOUR	W	ACRES	A
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING SECTION III (shown in the 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	T04	189,270	V	
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.

T04
The 204-AR Waste unloading Station began waste management operations in February of 1982. The 204-AR Waste Unloading Station receives liquid mixed waste transported in railroad tank cars or tank trucks of varying capacity. Mixed waste is generated from decontamination and regeneration operations in the 100 and 200 Areas, from recovery and laboratory operations in the 200 and 300 Areas, and from decontamination operations in the 400 Area. The liquid mixed waste is chemically adjusted in-line during pumpout to meet Double-Shell Tank (DST) System corrosion specifications, then transferred to the DST System. The maximum process design capacity, with a specific gravity for the waste of 1.0, for tank treatment at the 204-AR Waste Unloading Station is 189,270 liters (50,000 gallons) of which 37,854 liters (10,000 gallons) is associated with the flushing of the system.

DESCRIPTION OF DANGEROUS WASTES

[illegible]

B. [illegible]

C. [illegible]

EXCLUSIVE UNIT OF MEASURE CODE		METRIC UNIT OF MEASURE CODE	
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

[illegible]

D. PROCESSES

1. PROCESS CODES

[illegible]

NOTE: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the unused space; and (3) 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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D(1) and/or D(2) with regard to the first listed waste only at the rate and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. In column A on 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 "included with above" and make no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in the numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from 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)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03	D80			
X-2	D002	400	P	T02	S02			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			Included with above
1	D001	7,076,040	K	T04				Treatment-Other/Chemical Treatment
2	D002		↓	↓				↓
3	D003		↓	↓				↓
	D004		↓	↓				↓
	D005		↓	↓				↓
6	D006		↓	↓				↓
7	D007		↓	↓				↓

8	D008		↓	↓				↓
9	D009		↓	↓				↓
10	D010		↓	↓				↓
11	D011		↓	↓				↓
	D018		↓	↓				↓
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	WT01		↓	↓				↓
28	WT02		↓	↓				↓
29	WP01		↓	↓				↓
30	WP02		↓	↓				↓
31	F001		↓	↓				↓
32	F002		↓	↓				↓
33	F003		↓	↓				↓
	F004		↓	↓				↓
	F005		↓	↓				↓
36	F039		↓	↓				Included With above
37								
38								
39								
40								

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

The 204-AR Waste Unloading Station is used for the treatment of liquid mixed waste that exhibits a pH of less than 12. The waste is treated in-line at the 204-AR Waste Unloading Station by adding caustic (sodium hydroxide and sodium nitrate) to increase the pH of the waste, making the waste amenable for storage in the DST System.

The waste identified in Section IV.A has the potential for being transported to the 204-AR Waste Unloading Station, treated, and transferred to the DST System. The mixed waste consists of listed waste, characteristic waste (D001, D002, and D003), toxic constituents (D004 through D011, D018, D019, D022, D028 through D030, D033 through D036, D038 through D041, and D043), nonspecific source wast (F001 through F005 and F039), and state-only waste (WT01, WT02, WP01, and WP02). Multi-source leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005.

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)*				

'. 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. Klien, Manager U. S. Department of Energy	Robert M. Rosselli for	09/30/1999

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.

Robert M. Rosselli for
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy

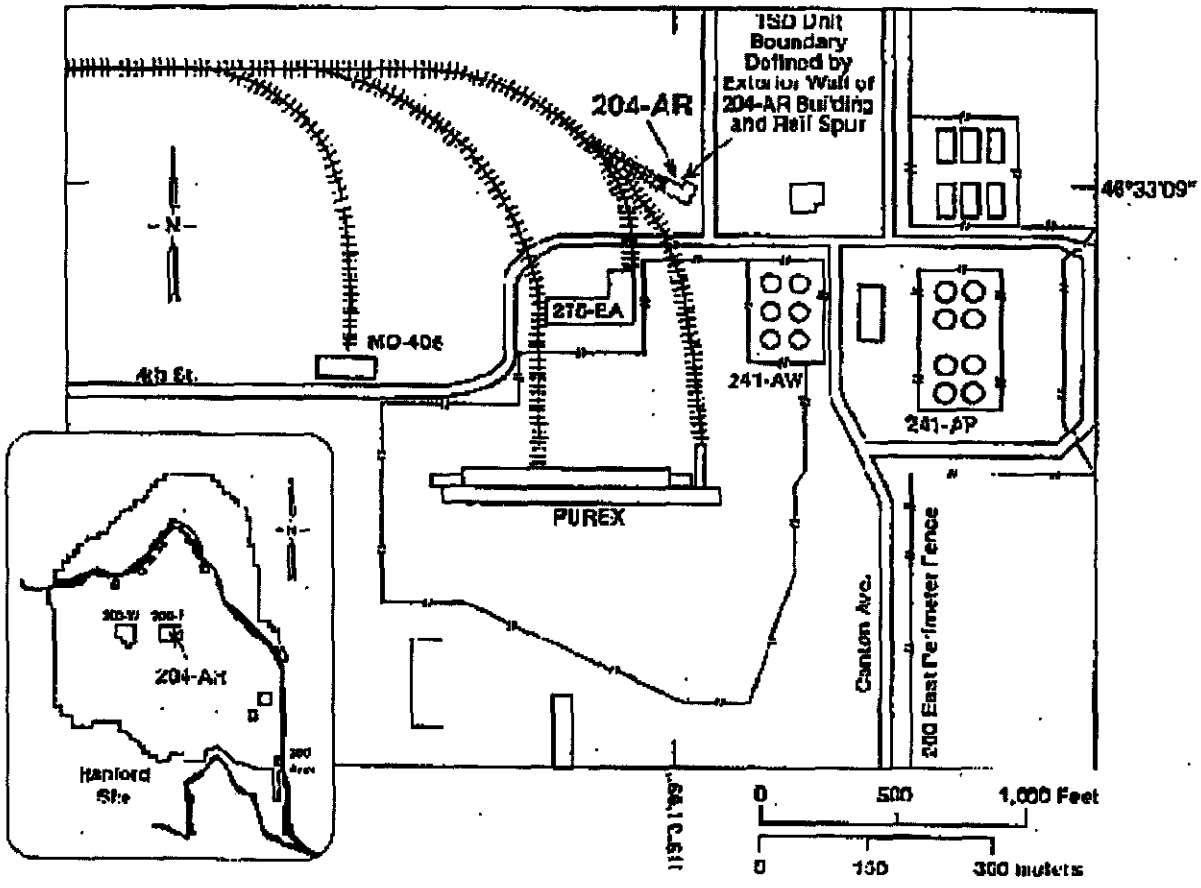
9/30/99
Date

M. P. DeLozier
Co-Operator
M. P. DeLozier
President and RPP General Manager
Lockheed Martin Hanford Corporation

9/24/99
Date

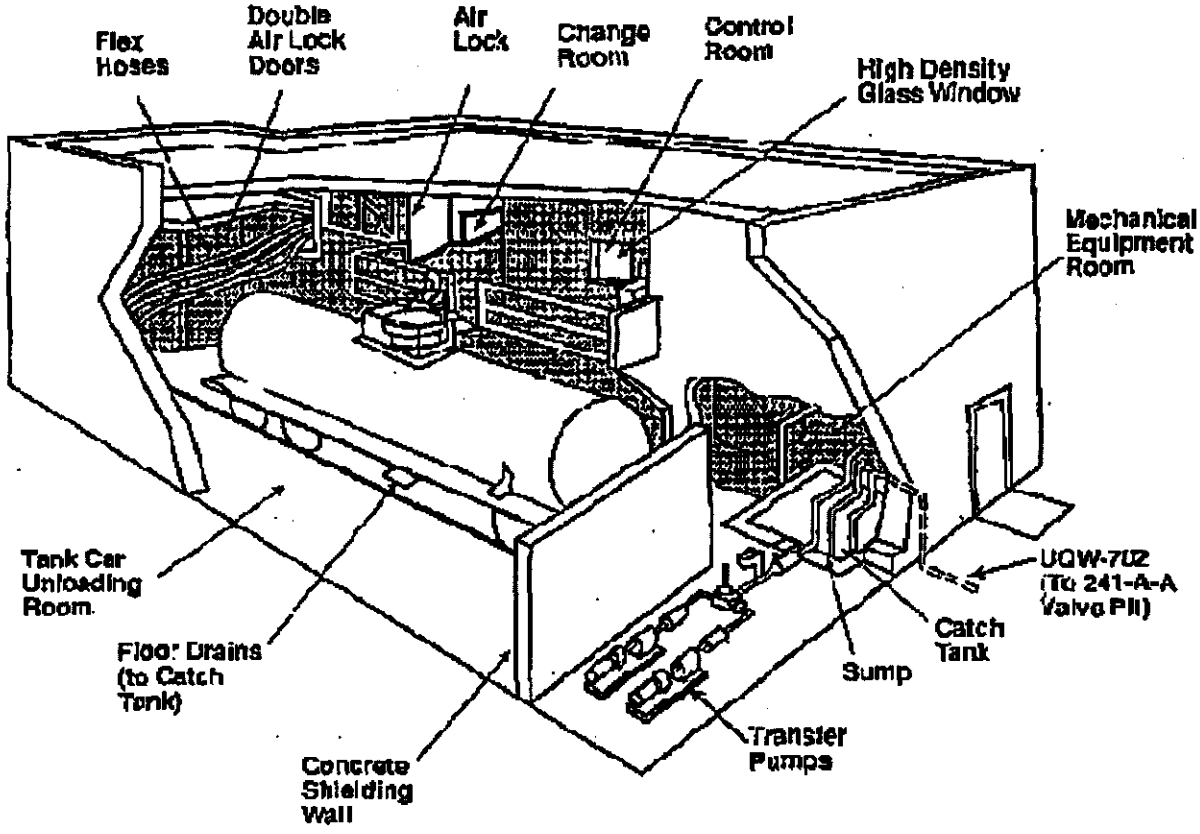
204-AR Building Waste Unloading Station

Site Plan



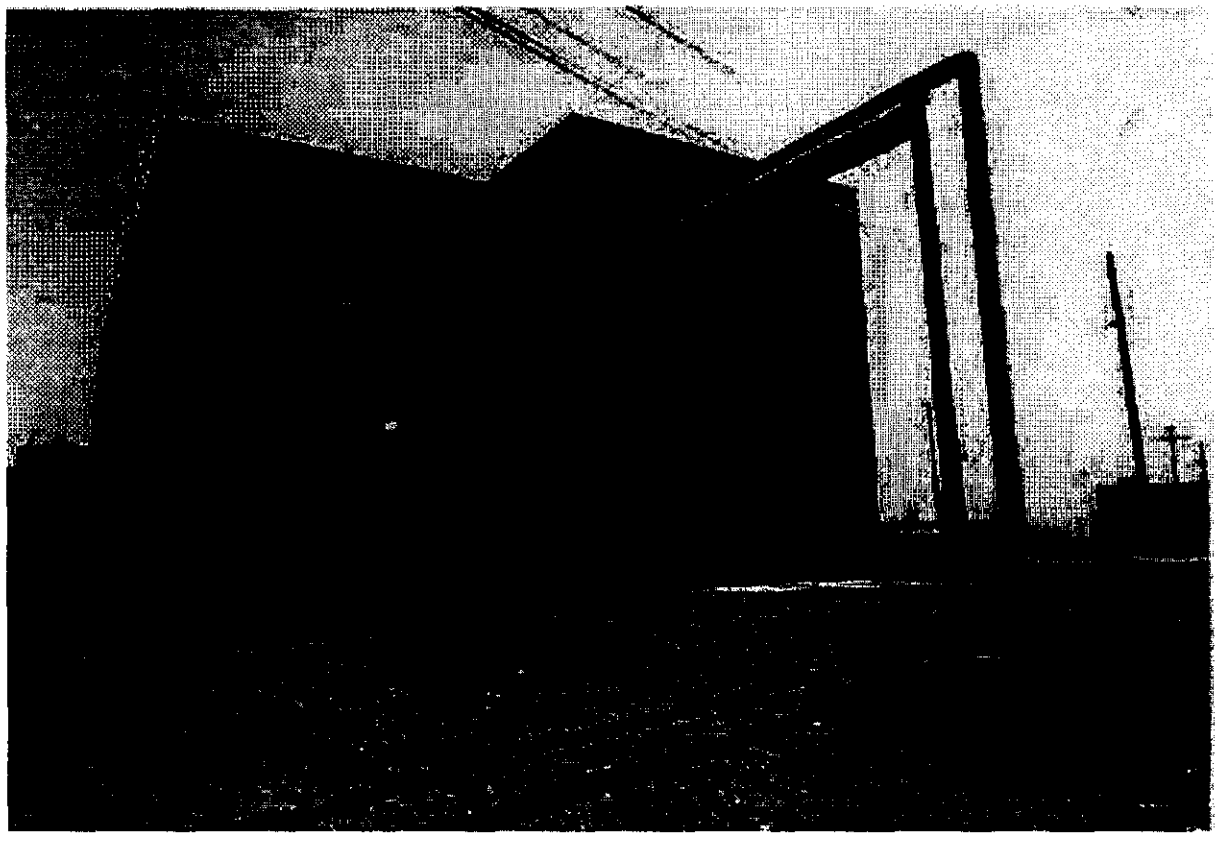
H9408030.15

204-AR Waste Unloading Station
Cutaway View



H96070161.25

204-AR WASTE UNLOADING STATION



46°33'09"
119°31'09"

8706421-18CN
(PHOTO TAKEN 1987)

204-AR WASTE UNLOADING STATION INTERNAL VIEW

TYPICAL RAILROAD TANK CAR UNLOADING

46°33'09"
119°31'09"

8706421-16CN
(PHOTO TAKEN 1987)

DOE/RL-88-21
204-AR Waste Unloading Station
Rev. 6, 12/21/99

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

ORM 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
		Pending Approval

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. For processes provided for entering codes in boxes that 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 II-C).

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 METRICTONS PER HOUR OR 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 in Section II-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	F
LITERS	L	TONS PER HOUR	D	HECTARE-METER	H
CUBIC YARDS	Y	METRICTONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	C
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Hanford Waste Vitrification Plant
Rev. 5, 9/26/96

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
		Pending Approval

II. FIRST OR REVISED APPLICATION

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☐ 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 - Select the code from the list of process codes below that best describes each process to be used at the facility. If the process will be disposal, enter the code in the space provided. If the process will be storage or treatment, select the process code that describes the process (including its design capacity) in the space provided in Section III-C.

PROCESS DESIGN CAPACITY - For each code entered in column B, 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
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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)
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	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe in processes in the space provided in 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	X
LITERS	L	TONS PER HOUR	D	HECTARE-METER	Y
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
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 1. AMOUNT *(specify)*	2. UNIT OF MEASURE *(enter code)*	FOR OFFICIAL USE ONLY			
X-1	S02	400	G				
X-2	T03	20	E				
1	T01	33,308	V				
2	T04	250**	H				
3	S02	416,350	L				
4	S05	2,271**	L				
5	T01	66,616	V				
6	S02	696,440	L				
7	T01	417	V				
8	S02	431,490	L				
9	S01	1,479,935	L				
** Process codes T04 and S05 are being used to designate the Hanford Waste Vitrification Plant Melter as a "miscellaneous unit" per Washington Administrative Code 173-303-680 "Miscellaneous Units."							
10			L				

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

T01, T04, S02, S05 (Vitrification and Related Treatment and Storage Processes)

The Hanford Waste Vitrification Plant (HWVP) is proposed to be located in the 200 East Area of the Hanford Facility[1]. At the HWVP, mixed waste received from a pretreatment unit will be treated in a series of tanks. Treatment will include concentration by evaporation, adjustment with chemicals and glass forming materials, and immobilization in borosilicate glass (vitrification) (T01, T04)[2]. The vitrified waste will be cast into stainless steel canisters and stored at the HWVP until the canisters are shipped to a national repository. The HWVP Melter is designed to process 250 liters per hour of melter feed, producing 100 kilograms per hour of borosilicate glass. The associated HWVP treatment tanks will be designed to process 33,308 liters per day of mixed waste. The dangerous waste treatment tanks will be capable of storing dangerous waste (S02) under offnormal conditions. The HWVP Melter also will be capable of storing dangerous waste (S05)[2] under offnormal conditions. The total storage capacity of the tanks included in the vitrification process is 416,350 liters. The storage capacity of the HWVP Melter is 2,271 liters.

T01, S02, (Tank Treatment and Storage of Secondary Mixed Waste)

Secondary liquid mixed waste generated by the HWVP will be collected and treated (T01) in a series of tanks. Treatment will include neutralization, filtration, sorption, and evaporation. The high-activity fraction from the treatment process will be recycled. The remainder of the waste will be transferred to the Double-Shell Tank (DST) System. Treatment design capacity will be 66,616 liters per day of mixed waste. The dangerous waste treatment tanks also will be capable of storing dangerous waste (S02) under offnormal conditions. The total storage capacity of tanks handling secondary liquid mixed waste is 696,440 liters.

T01, S02 (Neutralization, Solar Evaporation, and Tank Storage of Secondary Nonradioactive Dangerous Waste)

Secondary nonradioactive dangerous waste generated from leaks, spills, and/or overflows from chemical storage, makeup, and feed tanks will be collected, treated in a series of tanks (T01), and stored (S02) at the HWVP. Treatment will include neutralization, concentration by solar evaporation, and decomposition of dangerous constituents during storage. Treatment design capacity is 417 liters per day with a storage design capacity of 431,490 liters.

S01 (Storage of Vitrified Waste in Canisters)

The vitrified waste will be cast into stainless steel canisters and stored (S01) at the HWVP until the canisters are shipped to a national repository[3]. Approximately 2,000 canisters of vitrified waste will be stored at the HWVP. Conservatively assuming that the vitrified waste will fill 100 percent of the total canister volume (0.73 cubic meters), the total container storage capacity is 1,479,935 liters.

1. Per Amendment Four of the Hanford Federal Facility Consent and Order (Tri-Party Agreement), construction of a high-level waste virtification plant, such as the HWVP, was delayed until the year 2002 to accommodate changes in waste management planning and prioritization. Hot startup of a high-level vitrification plant has been delayed until the year 2009 (Tri-Party Agreement Milestone M-51-03).
2. The HWVP Melter, to be used for treatment (vitrification) (T04) and storage (S05) of dangerous waste, will be considered a 'miscellaneous unit' per Washington Administrative Code (WAC) 173-303-680 "Miscellaneous Units."
3. Because the vitrified waste has been classified as a listed waste (Dangerous Waste Codes F003 and F005), the U.S.Department of Energy, Richland Operations Office intends to submit a petition to the U.S. Environmental Protection Agency to delist the vitrified waste produced at the HWVP. In addition, a variance, per WAC173-303-072 "Procedures and Bases For Exempting and Excluding Wastes," will be submitted to the Washington State Department of Ecology requesting a variance for the borosilicate glass from the dangerous waste regulations.

DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER - Enter the dangerous waste number from chapter 173-303 WAC for each listed dangerous waste entered in column A. For each non-listed dangerous waste entered in column A enter the four digit numbers that describe the characteristics of the waste as given in chapter 173-303 WAC and/or the four digit numbers that describe the characteristics of the waste as given in chapter 173-303 WAC.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled at the facility on an annual basis. For each contaminant entered in column A estimate the total annual quantity of all the non-listed wastes that will be handled at the facility which contain that contaminant.

C. UNIT OF MEASURE CODE - For each quantity entered in column B enter the unit of measure code. Units of measure abbreviations or used are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If the only records are in volume unit of measure for quantity, the unit of measure must be converted into one of the required units of measure using the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES

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

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

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the unused right box of Item IV-D(1); and (3) 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 in the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D (all codes) to describe the quantity of the waste and describing all the 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) or on a continuation page enter "See line one above" and make no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. The waste is 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)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K054	900	P	T03	D80			
X-2	D002	200	P	T03	D80			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			Included with above
1	D001	12,439,660	K	T01	T04	S02	S05	Treatment-Tank/ Treatment -Other, Miscellaneous Unit, Storage-Tank/Storage-Other, Miscellaneous Unit
2	D002		↓	↓	↓	↓	↓	↓
[illegible]	D003		↓	↓	↓	↓	↓	↓
[illegible]	D004		↓	↓	↓	↓	↓	↓
5	D005		↓	↓	↓	↓	↓	↓
6	D006		↓	↓	↓	↓	↓	↓
7	D007		↓	↓	↓	↓	↓	↓

8	D008		↓	↓	↓	↓	↓	↓
9	D009		↓	↓	↓	↓	↓	↓
10	D010		↓	↓	↓	↓	↓	↓
11	D011		↓	↓	↓	↓	↓	↓
	WP01		↓	↓	↓	↓	↓	↓
13	WP02		↓	↓	↓	↓	↓	↓
14	WT01		↓	↓	↓	↓	↓	↓
15	F003		↓	↓	↓	↓	↓	↓
16	F005		↓	↓	↓	↓	↓	Included With Above
17	D002	17,161,200	K	T01	S02			Treatment-Tank/Storage of Secondary Liquid Mixed Waste
18	D004		↓	↓	↓			↓
19	D005		↓	↓	↓			↓
20	D006		↓	↓	↓			↓
21	D007		↓	↓	↓			↓
22	D008		↓	↓	↓			↓
23	D009		↓	↓	↓			↓
24	D010		↓	↓	↓			↓
25	D011		↓	↓	↓			↓
26	WP01		↓	↓	↓			↓
27	WP02		↓	↓	↓			↓
28	WT01		↓	↓	↓			↓
29	F003		↓	↓	↓			↓
30	F005		↓	↓	↓			Included With Above
31	D002	149,900	K	T01	S02			Treatment-Tank/Storage of Secondary Liquid Mixed Waste
32	WT01		↓	↓	↓			↓
33	WT02		↓	↓	↓			Included With Above
	WT01	876,300	K	S01				Storage-Container Vitrified Waste
	F003		↓	↓				↓
36	F005		↓	↓				Included With above
37								
38								
39								
40								

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

The mixed waste that will be treated and stored in stainless steel canisters at the HWVP will consist of existing and future high-activity waste stored in the DST System. The mixed waste will be designated as a dangerous waste due to ignitability (D001), corrosivity (D002), reactivity (D003), and the presence of spent nonhalogenated solvents (F003 and F005). The mixed waste also will be designated state-only extremely hazardous waste and/or dangerous waste for toxicity (WT01) and persistent (WP01, WP02).

The secondary liquid mixed waste is expected to be designated dangerous waste due to corrosivity (D002), and to the presence of spent nonhalogenated solvents (F003 and F005). The secondary liquid mixed waste also will be designated state-only waste for persistent (WP01, WP02) and toxicity (WT01, WT02). Treatment is expected to eliminate the extremely hazardous waste designation of the secondary liquid mixed waste before the mixed waste is transferred out of this unit.

The secondary nonradioactive chemical waste that will be treated and stored at the HWVP is expected to be designated dangerous waste due to corrosivity (D002) and state-only waste for toxicity (WT01, WT02). Treatment is expected to eliminate the extremely hazardous waste characteristics designation before treatment and storage in a solar evaporation tank.

The vitrified waste stored in stainless steel canisters is expected to be designated dangerous waste due to the presence of spent nonhalogenated solvents (F003 and F005) and state-only waste for toxicity (WT01).

When the HWVP Project is underway, a Part A, Form 3, permit application revision could be pursued as required by the dangerous waste regulations to change the dangerous waste number(s) and revise the estimated annual quantity of waste.

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

xisting 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)*				

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
John D. Wagoner, Manager U. S. Department of Energy Richland, Operations Office	John D. Wagoner	09/26/1996

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.

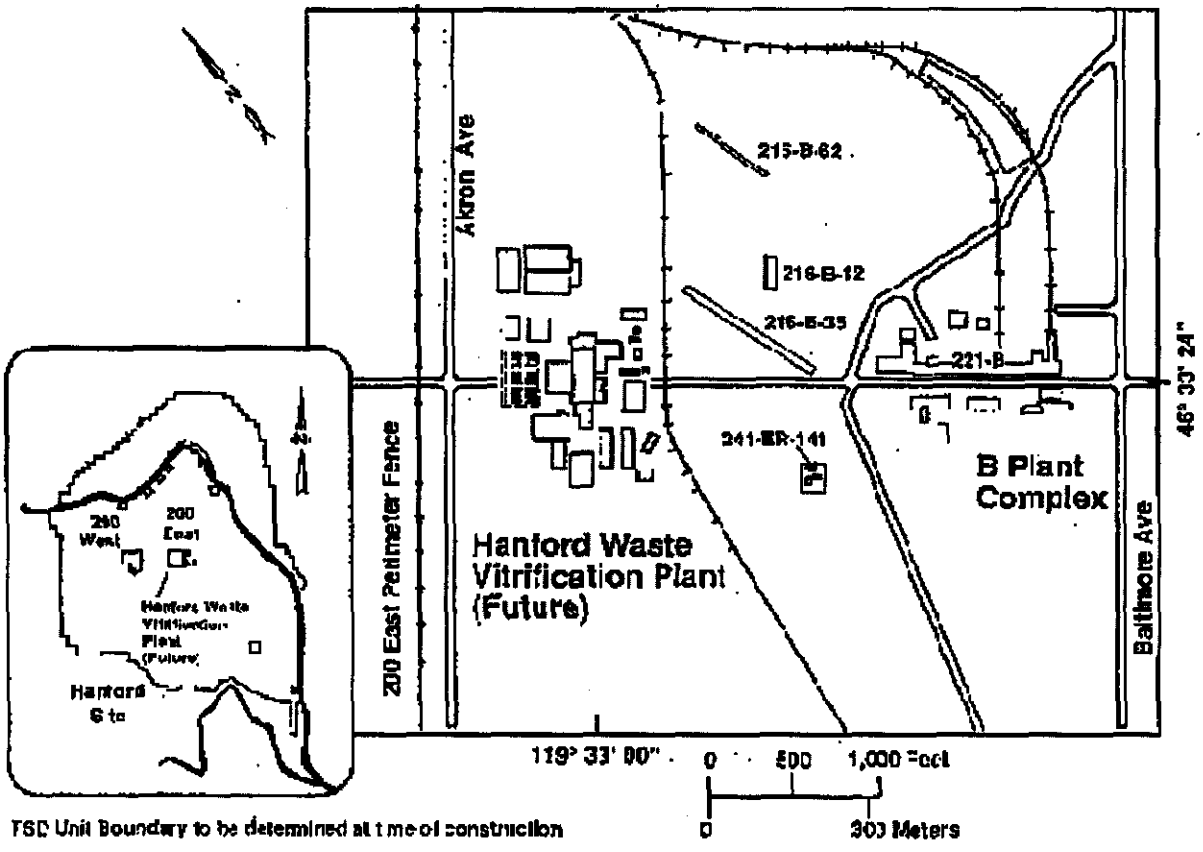
John D. Wagoner
Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

9/26/96
Date

H.J. Hatch
Co-Operator
H. J. Hatch
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

9/13/96
Date

Hanford Waste Vitrification Plant
Future Site Plan



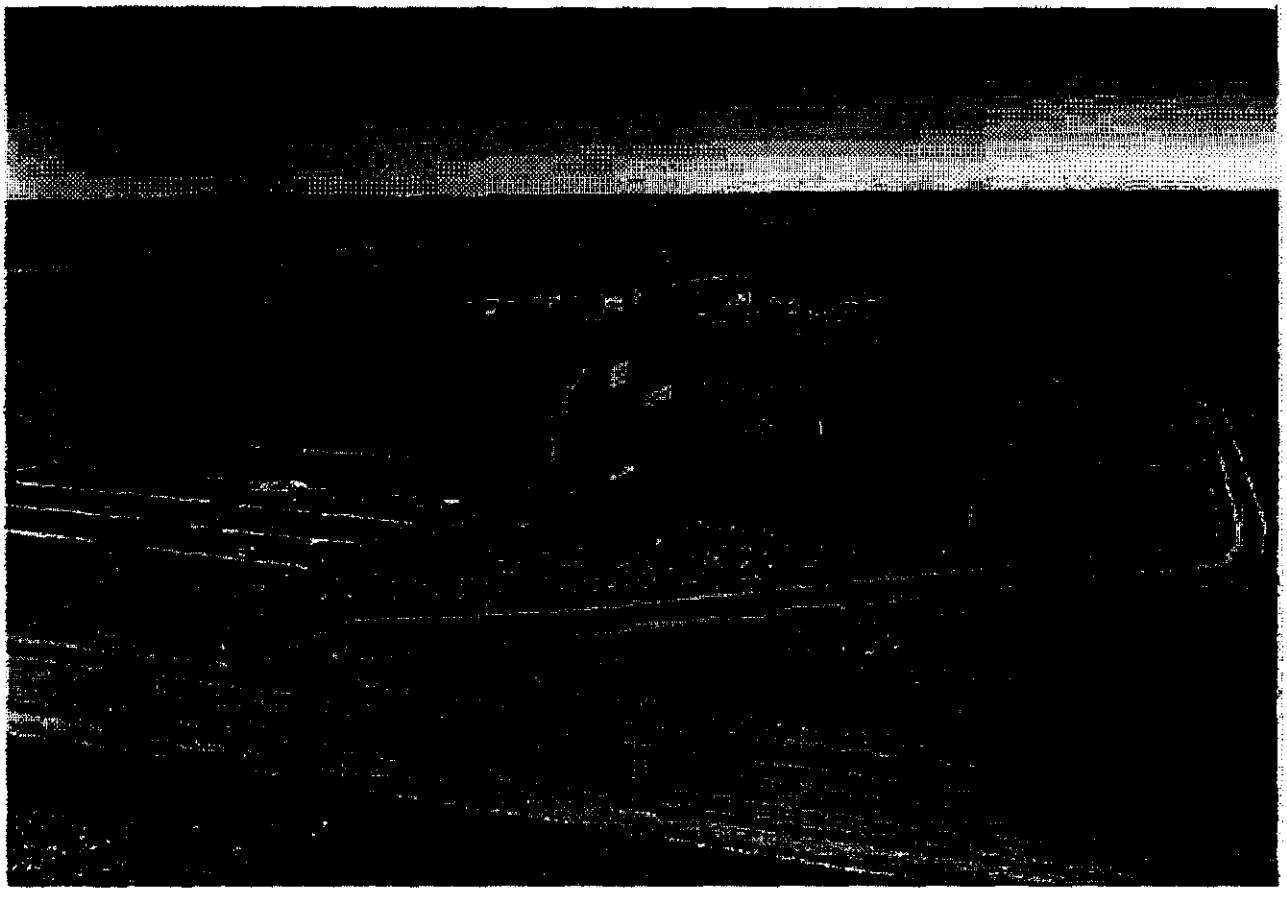
H96070161.2

HANFORD WASTE VITRIFICATION PLANT PROPOSED LOCATION--AERIAL VIEW

46°33'12"
119°33'00"

8600906-13CN
(PHOTO TAKEN 1986)

HANFORD WASTE VITRIFICATION PLANT
FUTURE CONCEPTUAL LAYOUT



46°33'12"
119°33'00"

90112857-1CN
(PHOTO TAKEN 1990)

DOE/RL-88-21
Hanford Waste Vitrification Plant
Rev. 6, 9/30/99

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
		Denied

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 spaces are provided for entering codes. If more lines are needed, enter the codes 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 [illegible] Section II-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 B1, enter the code from the list of unit measure codes below that best describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	CODE	APPROPRIATE UNIT 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 covering in tanks, surface impoundments or incinerators. Describe the processes in the space provided on Section II-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	ACRES	A
LITERS	L	TONS PER HOUR	O	HECTARES	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRE-FEET	F
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARE-METER	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Waste Receiving and Processing Facility
Rev. 2, 5/22/98

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

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

PROCESS DESIGN CAPACITY - For each code entered in column B1, enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B1, 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	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 in Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
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			
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	ACRES	A
LITERS	L	POUNDS PER HOUR	D	HECTARE-METER	E
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	T04	12,900	V				
2	S01	73,500	L				
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.

T04

The Waste Receiving and Processing Facility (WRAP) commenced construction in 1994 and began waste management operations in March of 1997.

Wrap has the capability to treat waste through deactivation, solidification or absorption of liquids, neutralization of corrosives, amalgamation, microencapsulation, macroencapsulation, volume reduction of waste (e.g. supercompaction), reaction of reactive waste, and repackaging of waste.

The total process design capacity for treatment is 12,900 liters (3,408 gallons) per day.

DESCRIPTION OF DANGEROUS WASTES

[illegible]

B. [illegible]

C. [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

D. PROCESSES

1. PROCESS CODES

[illegible]

2. PROCESS DESCRIPTION [illegible]

[illegible]

1. [illegible]

2. [illegible]

3. [illegible]

EXAMPLE FOR COMPLETING SECTION A (lines X-1, X-2, X-3 and X-4 below) – A facility will treat and dispose of [illegible] pounds per year of drums that range from 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	K054	900	P	T03	D80			
X-2	D002	400	P	T03	D80			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			Treated with above
1	D001	20,000	K	T04	S01			Treatment-Other/Storage-Container
2	D002	15,000	K	T04	S01			Treatment-Other/Storage-Container
3	D003	500	K	T04	S01			Treatment-Other/Storage-Container
	D004	50	K	T04	S01			Treatment-Other/Storage-Container
	D005	400	K	T04	S01			Treatment-Other/Storage-Container
6	D006	117	K	T04	S01			Treatment-Other/Storage-Container
7	D007	400	K	T04	S01			Treatment-Other/Storage-Container

8	D008	400	K	T04	S01			Treatment-Other/Storage-Container
9	D009	800	K	T04	S01			Treatment-Other/Storage-Container
10	D010	10	K	T04	S01			Treatment-Other/Storage-Container
11	D011	20	K	T04	S01			Treatment-Other/Storage-Container
	D012	300	K	T04	S01			Treatment-Other/Storage-Container
13	D016		↓	↓	↓			↓
14	D018		↓	↓	↓			↓
15	D019		↓	↓	↓			↓
16	D020		↓	↓	↓			↓
17	D021		↓	↓	↓			↓
18	D022		↓	↓	↓			↓
19	D023		↓	↓	↓			↓
20	D024		↓	↓	↓			↓
21	D025		↓	↓	↓			↓
22	D026		↓	↓	↓			↓
23	D027		↓	↓	↓			↓
24	D028		↓	↓	↓			↓
25	D029		↓	↓	↓			↓
26	D030		↓	↓	↓			↓
27	D031		↓	↓	↓			↓
28	D032		↓	↓	↓			↓
29	D033		↓	↓	↓			↓
30	D034		↓	↓	↓			↓
31	D035		↓	↓	↓			↓
32	D036		↓	↓	↓			↓
33	D037		↓	↓	↓			↓
	D038		↓	↓	↓			↓
	D039		↓	↓	↓			↓
36	D040		↓	↓	↓			↓
37	D041		↓	↓	↓			↓
38	D042		↓	↓	↓			↓
39	D043		↓	↓	↓			↓
40	WT01	16,000	K	T04	S01			Treatment-Other/Storage-Container
41	WT02	22,000	K	T04	S01			Treatment-Other/Storage-Container
42	WP01	12,000	K	T04	S01			Treatment-Other/Storage-Container
43	WP02	3,000	K	T04	S01			Treatment-Other/Storage-Container
44	WP03	2,000	K	T04	S01			Treatment-Other/Storage-Container
45	WSC2	15,000	K	T04	S01			Treatment-Other/Storage-Container
46	W001	5,000	K	T04	S01			Treatment-Other/Storage-Container
47	F001	4,000	K	T04	S01			Treatment-Other/Storage-Container
48	F002	4,500	K	T04	S01			Treatment-Other/Storage-Container
49	F003	6,500	K	T04	S01			Treatment-Other/Storage-Container
50	F004	570	K	T04	S01			Treatment-Other/Storage-Container
51	F005	6,000	K	T04	S01			Treatment-Other/Storage-Container
52	F020	300	K	T04	S01			Treatment-Other/Storage-Container
53	F021		↓	↓	↓			↓
54	F022		↓	↓	↓			↓
55	F023		↓	↓	↓			↓
56	F026		↓	↓	↓			↓
	F027	500	K	T04	S01			Treatment-Other/Storage-Container
	F028	300	K	T04	S01			Treatment-Other/Storage-Container
59	F039	500	K	T04	S01			Treatment-Other/Storage-Container
60	U001	5,000	K	T04	S01			Treatment-Other/Storage-Container

61	U002		↓	↓	↓			↓
62	U003		↓	↓	↓			↓
63	U004		↓	↓	↓			↓
64	U005		↓	↓	↓			↓
	U006		↓	↓	↓			↓
66	U007		↓	↓	↓			↓
67	U008		↓	↓	↓			↓
68	U009		↓	↓	↓			↓
69	U010		↓	↓	↓			↓
70	U011		↓	↓	↓			↓
71	U012		↓	↓	↓			↓
72	U014		↓	↓	↓			↓
73	U015		↓	↓	↓			↓
74	U016		↓	↓	↓			↓
75	U017		↓	↓	↓			↓
76	U018		↓	↓	↓			↓
77	U019		↓	↓	↓			↓
78	U020		↓	↓	↓			↓
79	U021		↓	↓	↓			↓
80	U022		↓	↓	↓			↓
81	U023		↓	↓	↓			↓
82	U024		↓	↓	↓			↓
83	U025		↓	↓	↓			↓
84	U026		↓	↓	↓			↓
85	U027		↓	↓	↓			↓
86	U028		↓	↓	↓			↓
	U029		↓	↓	↓			↓
	U030		↓	↓	↓			↓
89	U031		↓	↓	↓			↓
90	U032		↓	↓	↓			↓
91	U033		↓	↓	↓			↓
92	U034		↓	↓	↓			↓
93	U035		↓	↓	↓			↓
94	U036		↓	↓	↓			↓
95	U037		↓	↓	↓			↓
96	U038		↓	↓	↓			↓
97	U039		↓	↓	↓			↓
98	U041		↓	↓	↓			↓
99	U042		↓	↓	↓			↓
100	U043		↓	↓	↓			↓
101	U044		↓	↓	↓			↓
102	U045		↓	↓	↓			↓
103	U046		↓	↓	↓			↓
104	U047		↓	↓	↓			↓
105	U048		↓	↓	↓			↓
106	U049		↓	↓	↓			↓
107	U050		↓	↓	↓			↓
108	U051		↓	↓	↓			↓
109	U052		↓	↓	↓			↓
	U053		↓	↓	↓			↓
	U055		↓	↓	↓			↓
112	U056		↓	↓	↓			↓
113	U057		↓	↓	↓			↓

114	U058		↓	↓	↓			↓
115	U059		↓	↓	↓			↓
116	U060		↓	↓	↓			↓
117	U061		↓	↓	↓			↓
[illegible]	U062		↓	↓	↓			↓
119	U063		↓	↓	↓			↓
120	U064		↓	↓	↓			↓
121	U066		↓	↓	↓			↓
122	U067		↓	↓	↓			↓
123	U068		↓	↓	↓			↓
124	U069		↓	↓	↓			↓
125	U070		↓	↓	↓			↓
126	U071		↓	↓	↓			↓
127	U072		↓	↓	↓			↓
128	U073		↓	↓	↓			↓
129	U074		↓	↓	↓			↓
130	U075		↓	↓	↓			↓
131	U076		↓	↓	↓			↓
132	U077		↓	↓	↓			↓
133	U078		↓	↓	↓			↓
134	U079		↓	↓	↓			↓
135	U080		↓	↓	↓			↓
136	U081		↓	↓	↓			↓
137	U082		↓	↓	↓			↓
138	U083		↓	↓	↓			↓
139	U084		↓	↓	↓			↓
[illegible]	U085		↓	↓	↓			↓
[illegible]	U086		↓	↓	↓			↓
142	U087		↓	↓	↓			↓
143	U088		↓	↓	↓			↓
144	U089		↓	↓	↓			↓
145	U090		↓	↓	↓			↓
146	U091		↓	↓	↓			↓
147	U092		↓	↓	↓			↓
148	U093		↓	↓	↓			↓
149	U094		↓	↓	↓			↓
150	U095		↓	↓	↓			↓
151	U096		↓	↓	↓			↓
152	U097		↓	↓	↓			↓
153	U098		↓	↓	↓			↓
154	U099		↓	↓	↓			↓
155	U101		↓	↓	↓			↓
156	U102		↓	↓	↓			↓
157	U103		↓	↓	↓			↓
158	U105		↓	↓	↓			↓
159	U106		↓	↓	↓			↓
160	U107		↓	↓	↓			↓
161	U108		↓	↓	↓			↓
162	U109		↓	↓	↓			↓
[illegible]	U110		↓	↓	↓			↓
[illegible]	U111		↓	↓	↓			↓
165	U112		↓	↓	↓			↓
166	U113		↓	↓	↓			↓

167	U114		↓	↓	↓			↓
168	U115		↓	↓	↓			↓
169	U116		↓	↓	↓			↓
170	U117		↓	↓	↓			↓
[illegible]	U118		↓	↓	↓			↓
172	U119		↓	↓	↓			↓
173	U120		↓	↓	↓			↓
174	U121		↓	↓	↓			↓
175	U122		↓	↓	↓			↓
176	U123		↓	↓	↓			↓
177	U124		↓	↓	↓			↓
178	U125		↓	↓	↓			↓
179	U126		↓	↓	↓			↓
180	U127		↓	↓	↓			↓
181	U128		↓	↓	↓			↓
182	U129		↓	↓	↓			↓
183	U130		↓	↓	↓			↓
184	U131		↓	↓	↓			↓
185	U132		↓	↓	↓			↓
186	U133		↓	↓	↓			↓
187	U134		↓	↓	↓			↓
188	U135		↓	↓	↓			↓
189	U136		↓	↓	↓			↓
190	U137		↓	↓	↓			↓
191	U138		↓	↓	↓			↓
192	U140		↓	↓	↓			↓
[illegible]	U141		↓	↓	↓			↓
[illegible]	U142		↓	↓	↓			↓
195	U143		↓	↓	↓			↓
196	U144		↓	↓	↓			↓
197	U145		↓	↓	↓			↓
198	U146		↓	↓	↓			↓
199	U147		↓	↓	↓			↓
200	U148		↓	↓	↓			↓
201	U149		↓	↓	↓			↓
202	U150		↓	↓	↓			↓
203	U151		↓	↓	↓			↓
204	U152		↓	↓	↓			↓
205	U153		↓	↓	↓			↓
206	U154		↓	↓	↓			↓
207	U155		↓	↓	↓			↓
208	U156		↓	↓	↓			↓
209	U157		↓	↓	↓			↓
210	U158		↓	↓	↓			↓
211	U159		↓	↓	↓			↓
212	U160		↓	↓	↓			↓
213	U161		↓	↓	↓			↓
214	U162		↓	↓	↓			↓
215	U163		↓	↓	↓			↓
[illegible]	U164		↓	↓	↓			↓
[illegible]	U165		↓	↓	↓			↓
218	U166		↓	↓	↓			↓
219	U167		↓	↓	↓			↓

220	U168		↓	↓	↓			↓
221	U169		↓	↓	↓			↓
222	U170		↓	↓	↓			↓
223	U171		↓	↓	↓			↓
[illegible]	U172		↓	↓	↓			↓
225	U173		↓	↓	↓			↓
226	U174		↓	↓	↓			↓
227	U176		↓	↓	↓			↓
228	U177		↓	↓	↓			↓
229	U178		↓	↓	↓			↓
230	U179		↓	↓	↓			↓
231	U180		↓	↓	↓			↓
232	U181		↓	↓	↓			↓
233	U182		↓	↓	↓			↓
234	U183		↓	↓	↓			↓
235	U184		↓	↓	↓			↓
236	U185		↓	↓	↓			↓
237	U186		↓	↓	↓			↓
238	U187		↓	↓	↓			↓
239	U188		↓	↓	↓			↓
240	U189		↓	↓	↓			↓
241	U190		↓	↓	↓			↓
242	U191		↓	↓	↓			↓
243	U192		↓	↓	↓			↓
244	U193		↓	↓	↓			↓
245	U194		↓	↓	↓			↓
[illegible]	U196		↓	↓	↓			↓
[illegible]	U197		↓	↓	↓			↓
248	U200		↓	↓	↓			↓
249	U223		↓	↓	↓			↓
250	U225		↓	↓	↓			↓
251	U226		↓	↓	↓			↓
252	U227		↓	↓	↓			↓
253	U228		↓	↓	↓			↓
254	U230		↓	↓	↓			↓
255	U231		↓	↓	↓			↓
256	U232		↓	↓	↓			↓
257	U233		↓	↓	↓			↓
258	U234		↓	↓	↓			↓
259	U235		↓	↓	↓			↓
260	U236		↓	↓	↓			↓
261	U237		↓	↓	↓			↓
262	U238		↓	↓	↓			↓
263	U239		↓	↓	↓			↓
264	U240		↓	↓	↓			↓
265	U242		↓	↓	↓			↓
266	U243		↓	↓	↓			↓
267	U244		↓	↓	↓			↓
268	U246		↓	↓	↓			↓
[illegible]	U247		↓	↓	↓			↓
[illegible]	U248		↓	↓	↓			↓
271	U249		↓	↓	↓			↓
272	U271		↓	↓	↓			↓

273	U277		↓	↓	↓			↓
274	U278		↓	↓	↓			↓
275	U279		↓	↓	↓			↓
276	U280		↓	↓	↓			↓
[illegible]	U328		↓	↓	↓			↓
278	U353		↓	↓	↓			↓
279	U359		↓	↓	↓			↓
280	U364		↓	↓	↓			↓
281	U365		↓	↓	↓			↓
282	U366		↓	↓	↓			↓
283	U367		↓	↓	↓			↓
284	U372		↓	↓	↓			↓
285	U373		↓	↓	↓			↓
286	U375		↓	↓	↓			↓
287	U376		↓	↓	↓			↓
288	U377		↓	↓	↓			↓
289	U378		↓	↓	↓			↓
290	U379		↓	↓	↓			↓
291	U381		↓	↓	↓			↓
292	U382		↓	↓	↓			↓
293	U383		↓	↓	↓			↓
294	U384		↓	↓	↓			↓
295	U385		↓	↓	↓			↓
296	U386		↓	↓	↓			↓
297	U387		↓	↓	↓			↓
298	U389		↓	↓	↓			↓
[illegible]	U390		↓	↓	↓			↓
[illegible]	U391		↓	↓	↓			↓
301	U392		↓	↓	↓			↓
302	U393		↓	↓	↓			↓
303	U394		↓	↓	↓			↓
304	U395		↓	↓	↓			↓
305	U396		↓	↓	↓			↓
306	U400		↓	↓	↓			↓
307	U401		↓	↓	↓			↓
308	U402		↓	↓	↓			↓
309	U403		↓	↓	↓			↓
310	U404		↓	↓	↓			↓
311	U407		↓	↓	↓			↓
312	U409		↓	↓	↓			↓
313	U411		↓	↓	↓			↓
314	P001		↓	↓	↓			↓
315	P002		↓	↓	↓			↓
316	P003		↓	↓	↓			↓
317	P004		↓	↓	↓			↓
318	P005		↓	↓	↓			↓
319	P006		↓	↓	↓			↓
320	P007		↓	↓	↓			↓
321	P008		↓	↓	↓			↓
[illegible]	P009		↓	↓	↓			↓
[illegible]	P010		↓	↓	↓			↓
324	P011		↓	↓	↓			↓
325	P012		↓	↓	↓			↓

326	P013		↓	↓	↓			↓
327	P014		↓	↓	↓			↓
328	P015		↓	↓	↓			↓
329	P016		↓	↓	↓			↓
[illegible]	P017		↓	↓	↓			↓
331	P018		↓	↓	↓			↓
332	P020		↓	↓	↓			↓
333	P021		↓	↓	↓			↓
334	P022		↓	↓	↓			↓
335	P023		↓	↓	↓			↓
336	P024		↓	↓	↓			↓
337	P026		↓	↓	↓			↓
338	P027		↓	↓	↓			↓
339	P028		↓	↓	↓			↓
340	P029		↓	↓	↓			↓
341	P030		↓	↓	↓			↓
342	P031		↓	↓	↓			↓
343	P033		↓	↓	↓			↓
344	P034		↓	↓	↓			↓
345	P036		↓	↓	↓			↓
346	P037		↓	↓	↓			↓
347	P038		↓	↓	↓			↓
348	P039		↓	↓	↓			↓
349	P040		↓	↓	↓			↓
350	P041		↓	↓	↓			↓
351	P042		↓	↓	↓			↓
[illegible]	P043		↓	↓	↓			↓
[illegible]	P044		↓	↓	↓			↓
354	P045		↓	↓	↓			↓
355	P046		↓	↓	↓			↓
356	P047		↓	↓	↓			↓
357	P048		↓	↓	↓			↓
358	P049		↓	↓	↓			↓
359	P050		↓	↓	↓			↓
360	P051		↓	↓	↓			↓
361	P054		↓	↓	↓			↓
362	P056		↓	↓	↓			↓
363	P057		↓	↓	↓			↓
364	P058		↓	↓	↓			↓
365	P059		↓	↓	↓			↓
366	P060		↓	↓	↓			↓
367	P062		↓	↓	↓			↓
368	P063		↓	↓	↓			↓
369	P064		↓	↓	↓			↓
370	P065		↓	↓	↓			↓
371	P066		↓	↓	↓			↓
372	P067		↓	↓	↓			↓
373	P068		↓	↓	↓			↓
374	P069		↓	↓	↓			↓
[illegible]	P070		↓	↓	↓			↓
[illegible]	P071		↓	↓	↓			↓
377	P072		↓	↓	↓			↓
378	P073		↓	↓	↓			↓

379	P074		↓	↓	↓			↓
380	P075		↓	↓	↓			↓
381	P076		↓	↓	↓			↓
382	P077		↓	↓	↓			↓
[illegible]	P078		↓	↓	↓			↓
384	P081		↓	↓	↓			↓
385	P082		↓	↓	↓			↓
386	P084		↓	↓	↓			↓
387	P085		↓	↓	↓			↓
388	P087		↓	↓	↓			↓
389	P088		↓	↓	↓			↓
390	P089		↓	↓	↓			↓
391	P092		↓	↓	↓			↓
392	P093		↓	↓	↓			↓
393	P094		↓	↓	↓			↓
394	P095		↓	↓	↓			↓
395	P096		↓	↓	↓			↓
396	P097		↓	↓	↓			↓
397	P098		↓	↓	↓			↓
398	P099		↓	↓	↓			↓
399	P101		↓	↓	↓			↓
400	P102		↓	↓	↓			↓
401	P103		↓	↓	↓			↓
402	P104		↓	↓	↓			↓
403	P105		↓	↓	↓			↓
404	P106		↓	↓	↓			↓
[illegible]	P107		↓	↓	↓			↓
[illegible]	P108		↓	↓	↓			↓
407	P109		↓	↓	↓			↓
408	P110		↓	↓	↓			↓
409	P111		↓	↓	↓			↓
410	P112		↓	↓	↓			↓
411	P113		↓	↓	↓			↓
412	P114		↓	↓	↓			↓
413	P115		↓	↓	↓			↓
414	P116		↓	↓	↓			↓
415	P118		↓	↓	↓			↓
416	P119		↓	↓	↓			↓
417	P120		↓	↓	↓			↓
418	P121		↓	↓	↓			↓
419	P122		↓	↓	↓			↓
420	P123		↓	↓	↓			↓
421	P127		↓	↓	↓			↓
422	P128		↓	↓	↓			↓
423	P185		↓	↓	↓			↓
424	P188		↓	↓	↓			↓
425	P189		↓	↓	↓			↓
426	P190		↓	↓	↓			↓
427	P191		↓	↓	↓			↓
[illegible]	P192		↓	↓	↓			↓
[illegible]	P194		↓	↓	↓			↓
430	P196		↓	↓	↓			↓
431	P197		↓	↓	↓			↓

432	P198		↓	↓	↓			↓
433	P199		↓	↓	↓			↓
434	P201		↓	↓	↓			↓
435	P202		↓	↓	↓			↓
	P203		↓	↓	↓			↓
437	P204		↓	↓	↓			↓
438	P205		↓	↓	↓			Included With Above

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 *(arial 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)*				

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
John D. Wagoner, Manager U.S. Department of Energy Richland Operations Office	Original Signed By: L.L.Piper	05/22/1998

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.

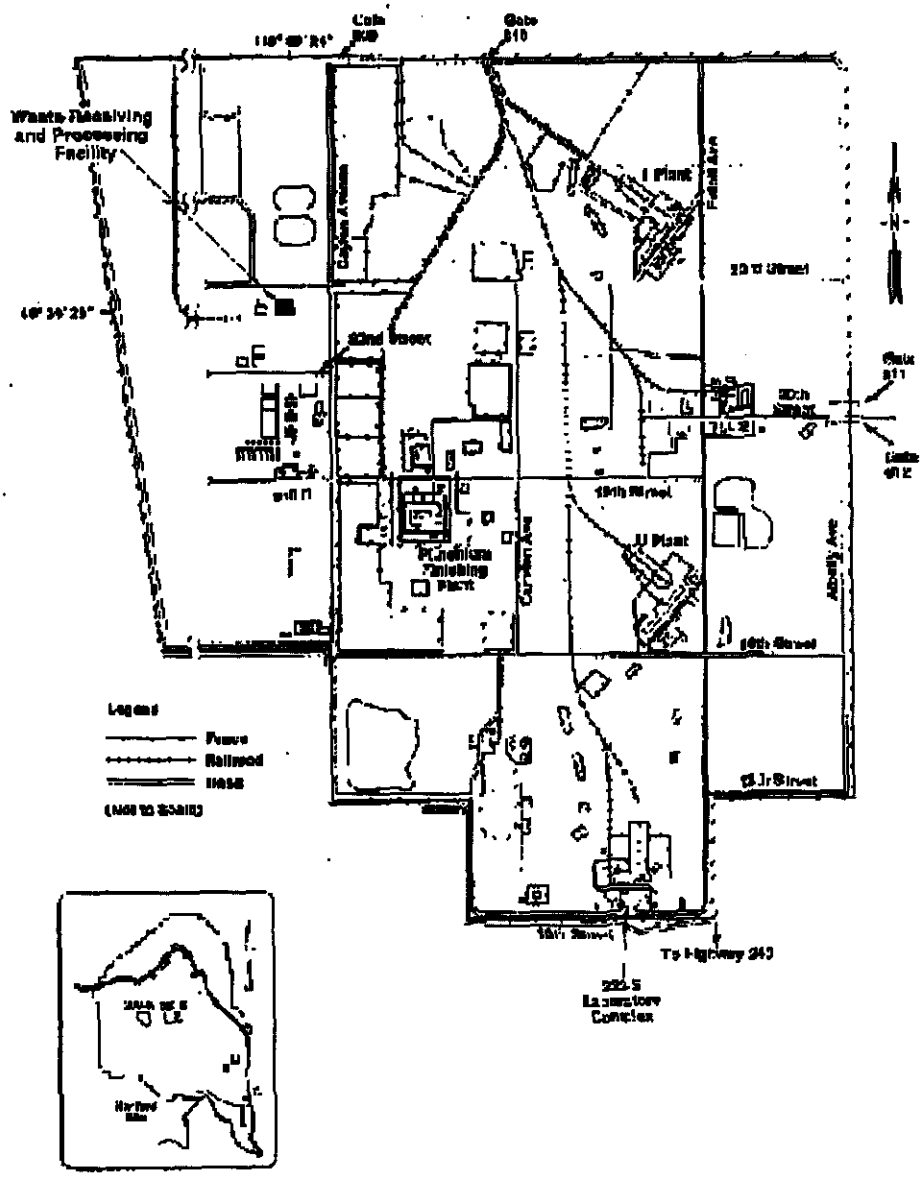
NAME *(print or type)*	SIGNATURE	DATE SIGNED
SEE ATTACHMENT		

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.

L. L. Piper for _____ 5/22/98 _____
Owner/Operator Date
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

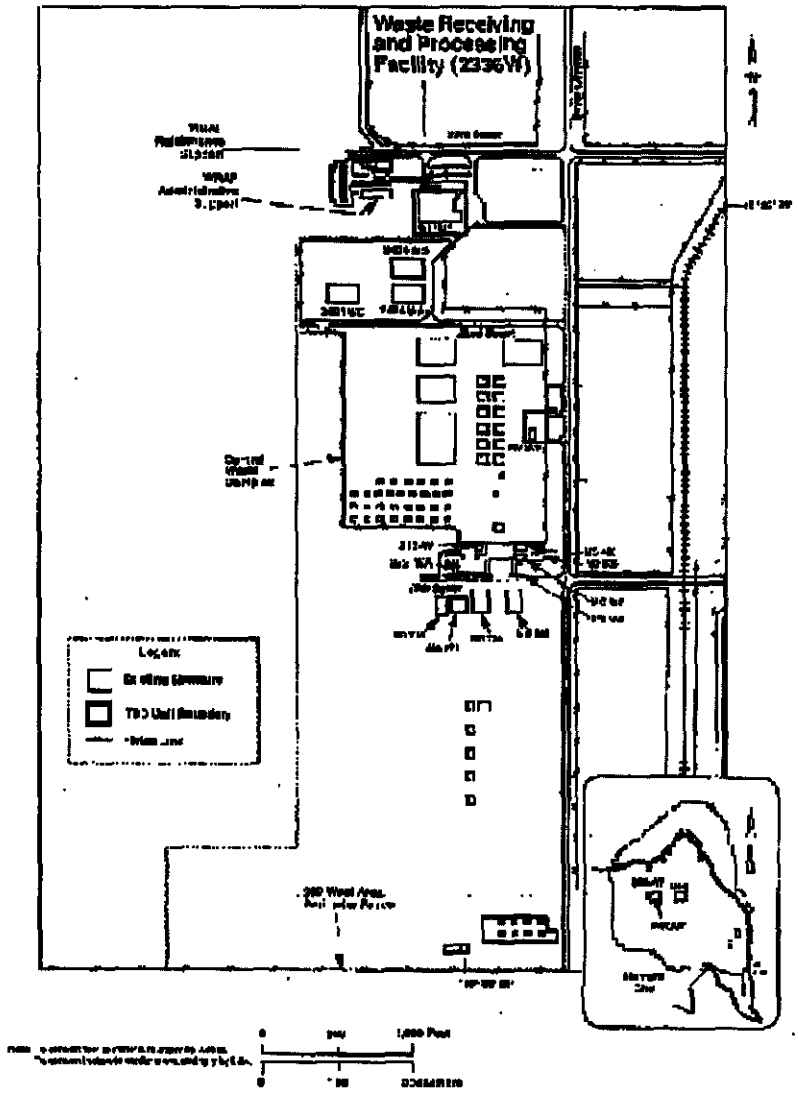
H. J. Hatch _____ 5/14/98 _____
Co-Operator Date
H. J. Hatch
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.



200 West Site Plan

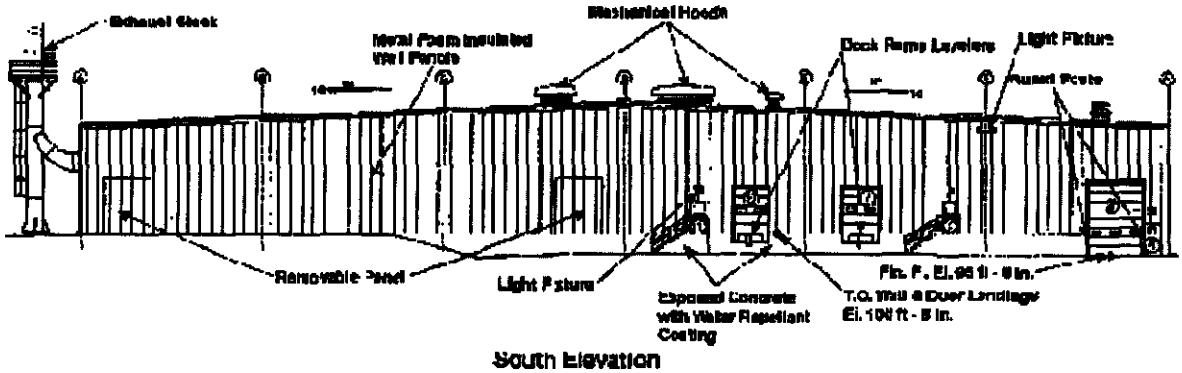
H98030043.2

Waste Receiving and Processing Facility (WRAP)

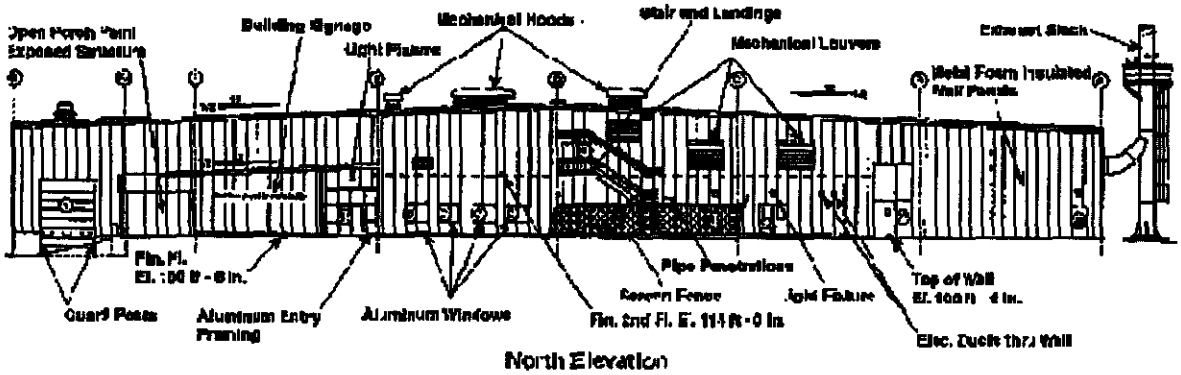


H98030043.3R1

Waste Receiving and Processing Facility
2336-W Building



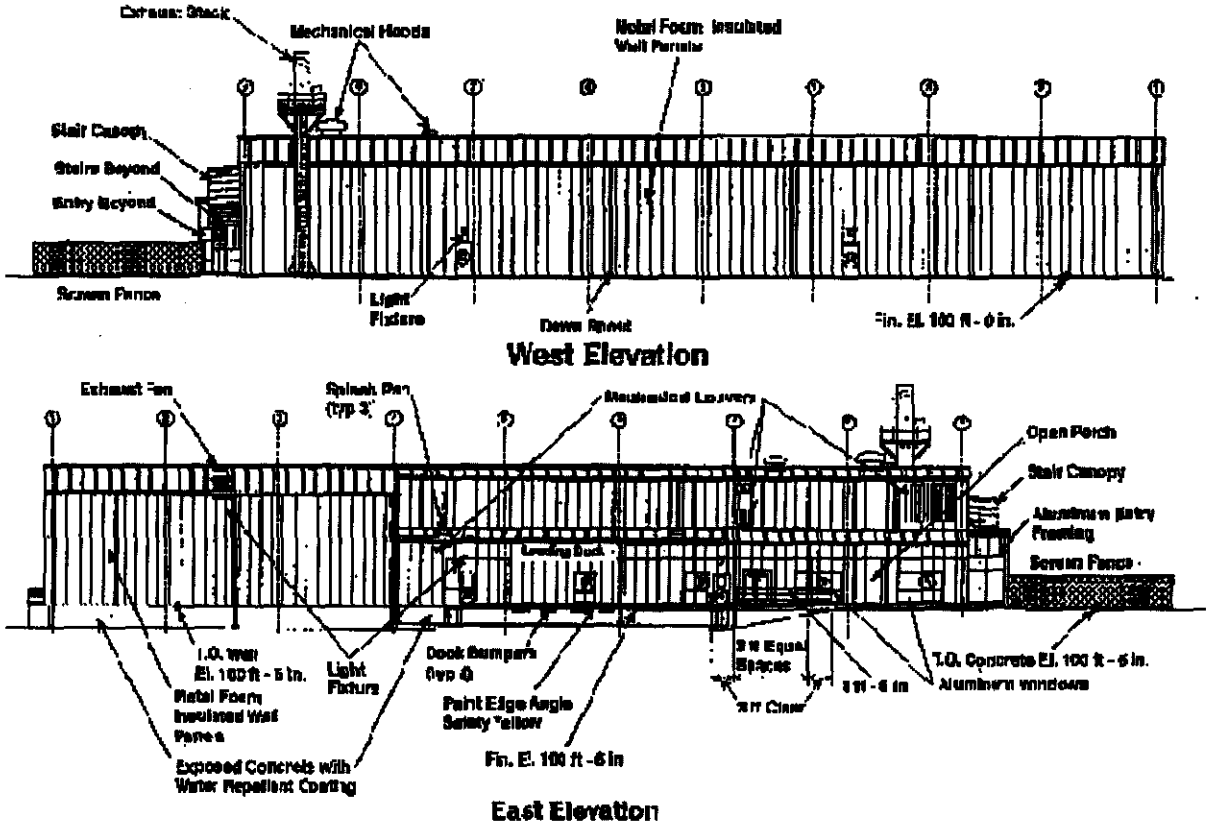
South Elevation



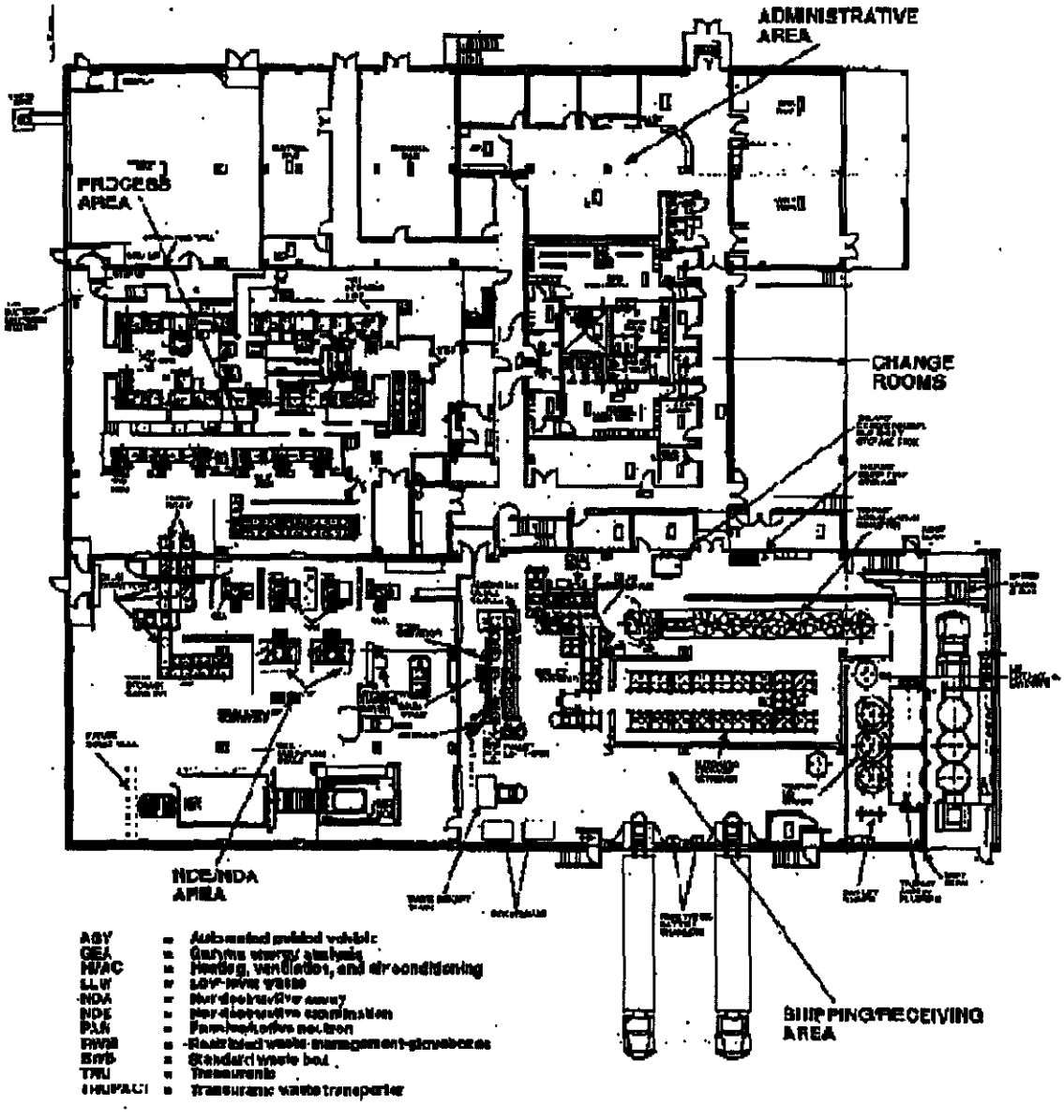
North Elevation

H98030043.4

Waste Receiving and Processing Facility
2336-W Building

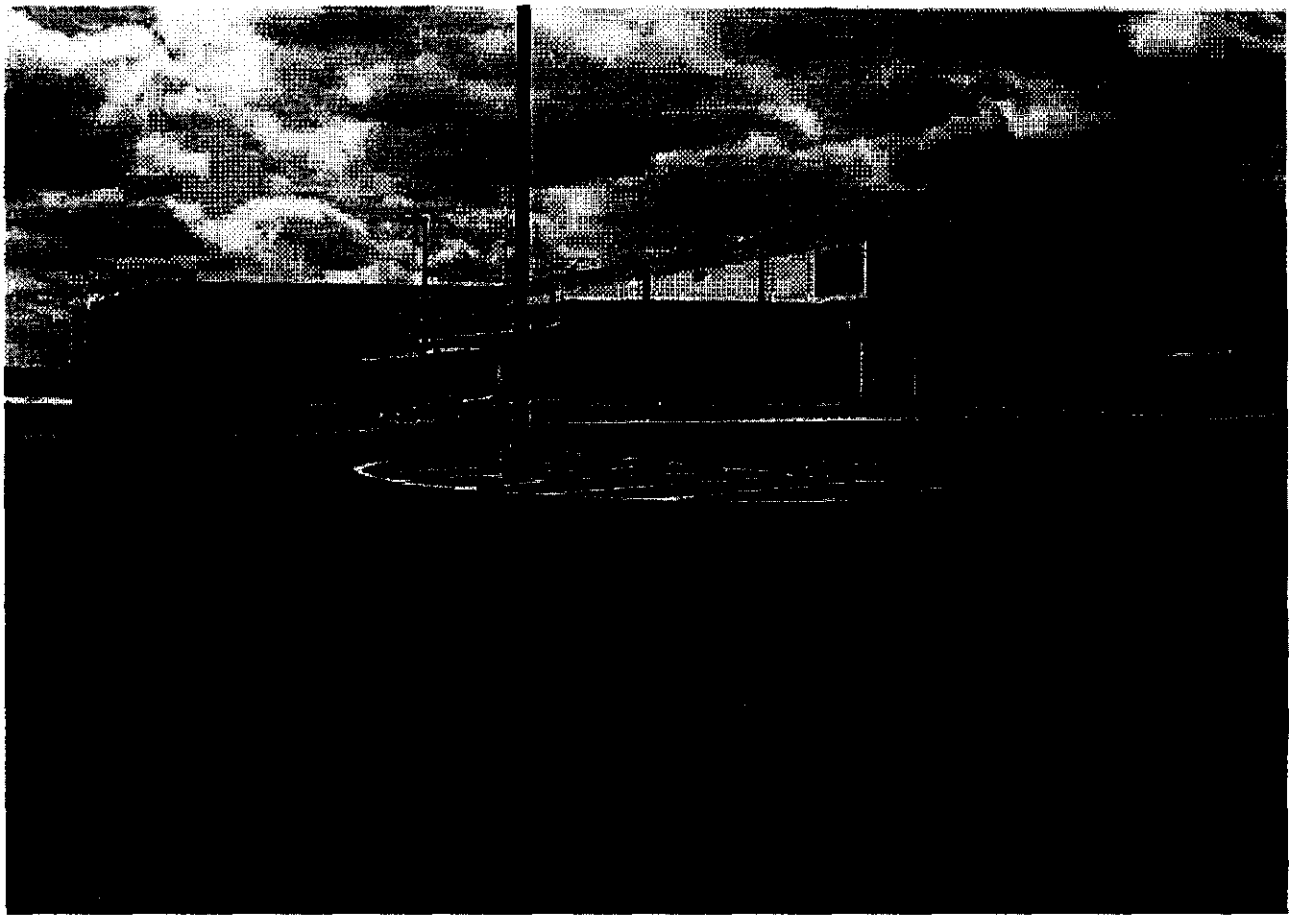


H98030043.5


ADMINISTRATIVE AREA
PROCESS AREA
CHANGE ROOMS
NDE/NDA AREA
SHIPPING/RECEIVING AREA
AGV = Automated guided vehicle
GEA = Gamma energy analysis
HVAC = Heating, ventilation, and air conditioning
LLW = Low-level waste
NDA = Nondestructive assay
NDE = Nondestructive examination
PAN = Passive active neutron
RWMS = Remotely operated waste management simulators
SWB = Standard waste box
TRU = Transuranic
TRUPACT = Transuranic waste transporter

H98030043.1

WASTE RECEIVING AND PROCESSING FACILITY



46°33'29"
119°38'24"

96050191-68CN
(PHOTO TAKEN 1996)

DOE/RL-88-21
Waste Receiving and Processing Facility
Rev. 3, 6/28/99

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: WA789000896 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	COMMENTS
		Pending Approval

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. Two lines are provided for entering codes. If more lines are needed, in the space provided at the bottom of the page, list the codes, capacities, and a brief description of the process (including its design capacity) in the space provided for the Section III.

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 UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNIT 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 OR 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 specified above. Describe the processes in the space provided in Section IIIC)	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	CODE	UNIT OF MEASURE	CODE	UNIT OF MEASURE	CODE	UNIT OF MEASURE	CODE
GALLONS	Q	LITERS PER DAY	V	ACRES	A		
LITERS	L	TONS PER HOUR	O	HECTARE-METER	M		
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRE-FEET	F		
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	H		
GALLONS PER DAY	U	LITERS PER HOUR	H				

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/State I.D. No. WA789000089677

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/day/year)	Comments
		Denied

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	YR
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.)

☐ 2. New Facility (Complete item below)

MO	DAY	YR

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 Codes - Enter the codes from the list of process codes below that best describe each process to be used at the facility. For hazardous waste storage, enter one of the storage codes. For hazardous waste disposal, enter one of the disposal codes. For hazardous waste treatment, enter one of the treatment codes. If a process will be used that is not included in the list of codes below, then describe the process in Section III-C.

B. Process Design Capacity - For each code entered in column A, enter the capacity of the process.

1. Amount - State 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 best describes the unit of measure that was used below in B(1) amount.

PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASUREMENT FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic yards or cubic meters
Surface impoundment	S04	Gallons per day
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
Land application	D82	Acres or hectares
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons or liters
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour or gallons per hour or liters per hour
Other Units 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	Gallons Per Day	V	[illegible]	[illegible]
Liters	L	Liters Per Day	D	[illegible]	[illegible]
Cubic Yards	Y	Metric Tons Per Hour	W	[illegible]	[illegible]
Cubic Meters	C	Gallons Per Hour	E	[illegible]	[illegible]
Gallons Per Day	U	Liters Per Hour	H	[illegible]	[illegible]

III. PROCESSES -- CODES AND DESIGN CAPACITIES *(continued)*

[illegible]

Line No.	A. Process Code *(from list above)*			B. Process Design Capacity 1. Amount *(specify)*	2. Unit of Measure *(enter code)*			For Official Use Only	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	T	0	4	100		V			
2	S	0	1	33,232		L			
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.

The Plutonium Finishing Plant (PFP) Treatment Unit is located in the 200 West Area and supports PFP, which was constructed in 1948. The cementation process first started in October 1996 and operations ceased in December 1996.

T04

Treatment of mixed waste at the 234-5Z Building occurs in glovebox HA-20MB located in Room 235B. This glovebox (HA-20MB) measures approximately 4.7 meters (15 feet 6 inches) long by 1.5 meters (4 feet 10 inches) wide by 1.6 meters (5 feet 3 inches) high. Varying forms of mixed waste are treated in HA-20MB using a cementation process. The cementation process is performed by mixing a standard cement material with appropriate amounts of the mixed waste and water to form a slurry that will solidify into a chemically stable material. Following mixing, the slurry is placed in approximately 3-liter (0.8-gallon) billet cans for solidification in glovebox HA-20MB.

When treatment operations resume, the maximum process design capacity for mixed waste treatment in HA-20MB will be 100 liters (26 gallons) per day.

S01

The PFP container storage areas are located in 234-5Z Building--Room 235B/Glovebox HA-20MB, and Room 170 including Glovebox HC-46F, and Room 192D and will store mixed waste until transferred to an onsite treatment storage, and/or disposal (TSD) unit or offsite TSD facility. The storage areas will be used to store mixed waste from the cementation process and other packaging activities.

The total maximum process design capacity for container storage is 33,232 liters.

IV. DESCRIPTION OF DANGEROUS WASTES

Dangerous Waste [illegible] Section 3004 of the Resource Conservation and Recovery Act (RCRA) [illegible] dangerous waste [illegible] Dangerous Waste [illegible] are [illegible] in Section [illegible] of the Washington Administrative Code (WAC) [illegible] Dangerous Waste.

B. Estimated Annual Quantity of Waste: [illegible] waste [illegible] that will be [illegible] at the facility. [illegible] the total annual quantity of all Dangerous Waste [illegible] that will be handled [illegible] facility.

C. Unit of Measure: [illegible] Dangerous Waste [illegible] the appropriate code.

[illegible]	[illegible]	[illegible]	[illegible]
Pounds	P	Kilograms	K
Tons	T	Metric Tons	M

If quantity exceeds any other unit of measure the quantity, the value of which must be converted into one of the required units of measure, indicate in parenthesis the appropriate density or specific gravity of the waste.

D. Processes

1. Process Codes:

Enter the Dangerous Waste Number listed Dangerous Waste entered in column A in the order(s) from the list of process codes contained in Section III of the instructions that waste will be stored, treated, and/or disposed of at the facility.

For storage of dangerous wastes: For each characteristic or listed contaminant entered in column A enter the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous waste that possess that characteristic or listed contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "9999" in the extreme right hand [illegible] (3) and (3) Enter in the space provided on page 4, the line number and the additional codes.

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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be entered on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the 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 "included with above" and make no other entries on that line.

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

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3 and X-4 below). A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from 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)				D. Processes 2. Process Description (if a code is not entered in D(1))
X-1	K	0	5	4	900	P	T03	D80			
X-2	D	0	0	2	400	P	T03	D80			
X-3	D	0	0	1	100	P	T03	D80			
X-4	D	0	0	2			T03	D80			included with above

Photocopy this page before completing if you have more than 26 wastes to list.

Number *(enter from page 1)*

A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

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))*
1	D	0	0	1	5,921	K	T04				Treatment-Other
2	D	0	0	3		↓	↓				↓
3	D	0	0	5		↓	↓				↓
4	D	0	0	6		↓	↓				↓
5	D	0	0	7		↓	↓				↓
6	D	0	0	8		↓	↓				↓
7	D	0	1	1		↓	↓				↓
8	W	S	C	2		↓	↓				↓
9	W	T	0	1		↓	↓				↓
10	W	T	0	2		↓	↓				Included With Above
11	D	0	0	1	86,400	K	S01				Storage - Container
12	D	0	0	3		↓	↓				↓
13	D	0	0	4		↓	↓				↓
14	D	0	0	5		↓	↓				↓
15	D	0	0	6		↓	↓				↓
16	D	0	0	7		↓	↓				↓
	D	0	0	8		↓	↓				↓
18	D	0	0	9		↓	↓				↓
19	D	0	1	0		↓	↓				↓
20	D	0	1	1		↓	↓				↓
21	D	0	1	9		↓	↓				↓
22	F	0	0	1		↓	↓				↓
23	F	0	0	2		↓	↓				↓
24	F	0	0	3		↓	↓				↓
25	F	0	0	4		↓	↓				↓
26	F	0	0	5		↓	↓				↓
27	W	S	C	2		↓	↓				↓
28	W	T	0	2		↓	↓				Included with above
29											
30											

E. Use this space to list additional process codes from Section D(1) on page 3.

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

xisting 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	07/05/2000

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		

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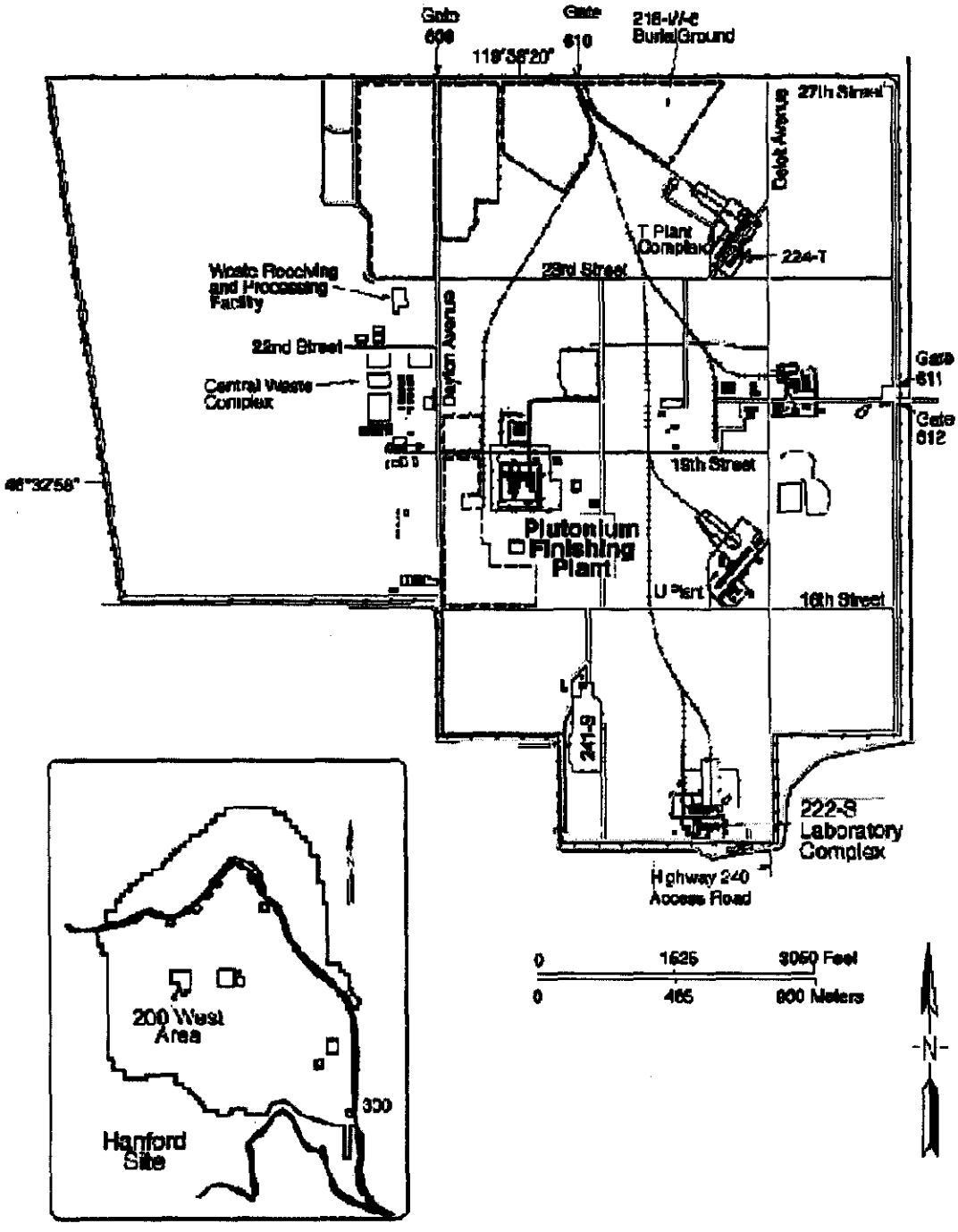
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

7/5/00
Date

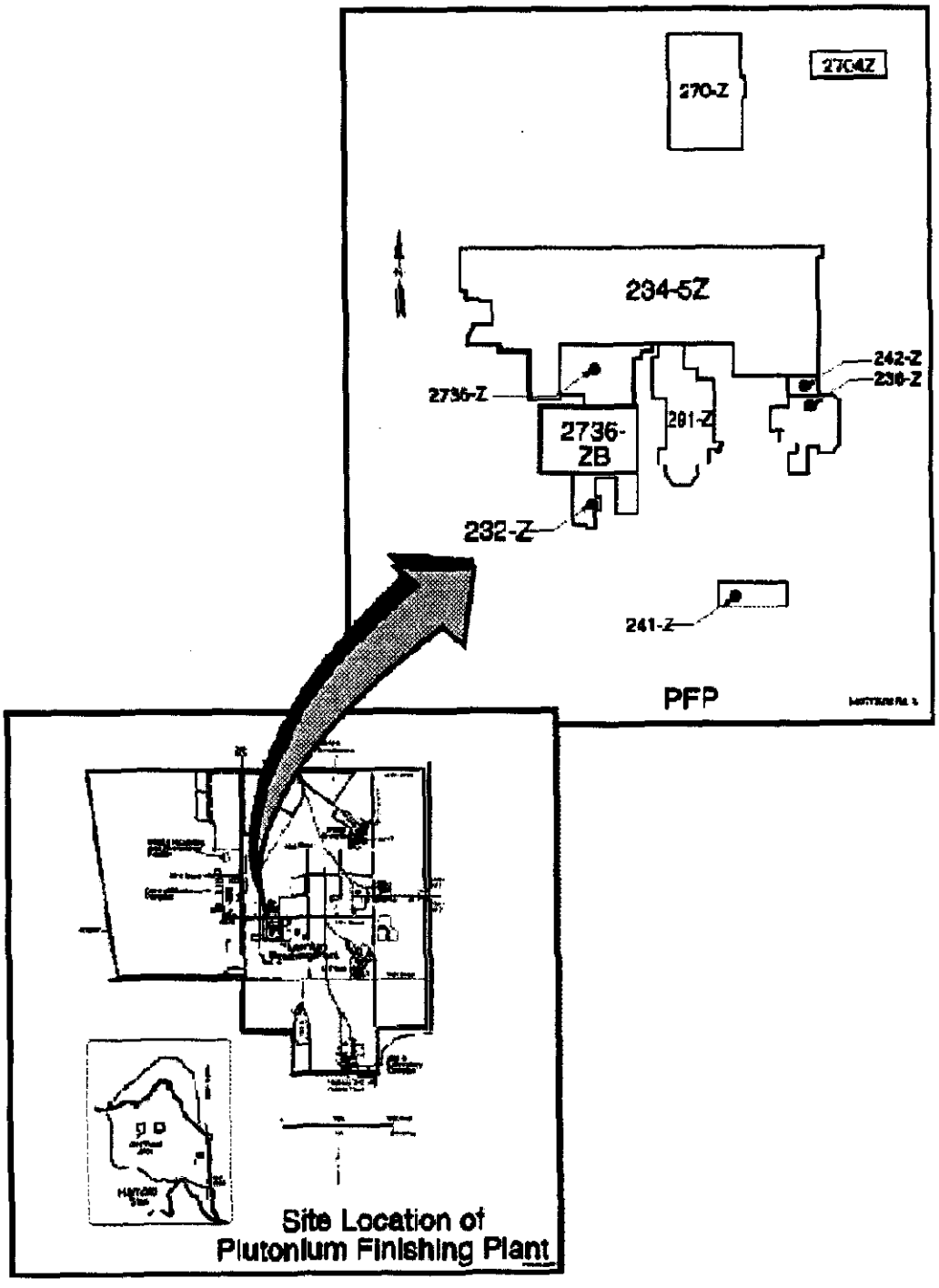
D. B. Van Leuven for
Co-Operator
Ron D. Hanson
President and Chief Executive Officer
Fluor Hanford

6/30/00
Date

200 West Area Site Plan

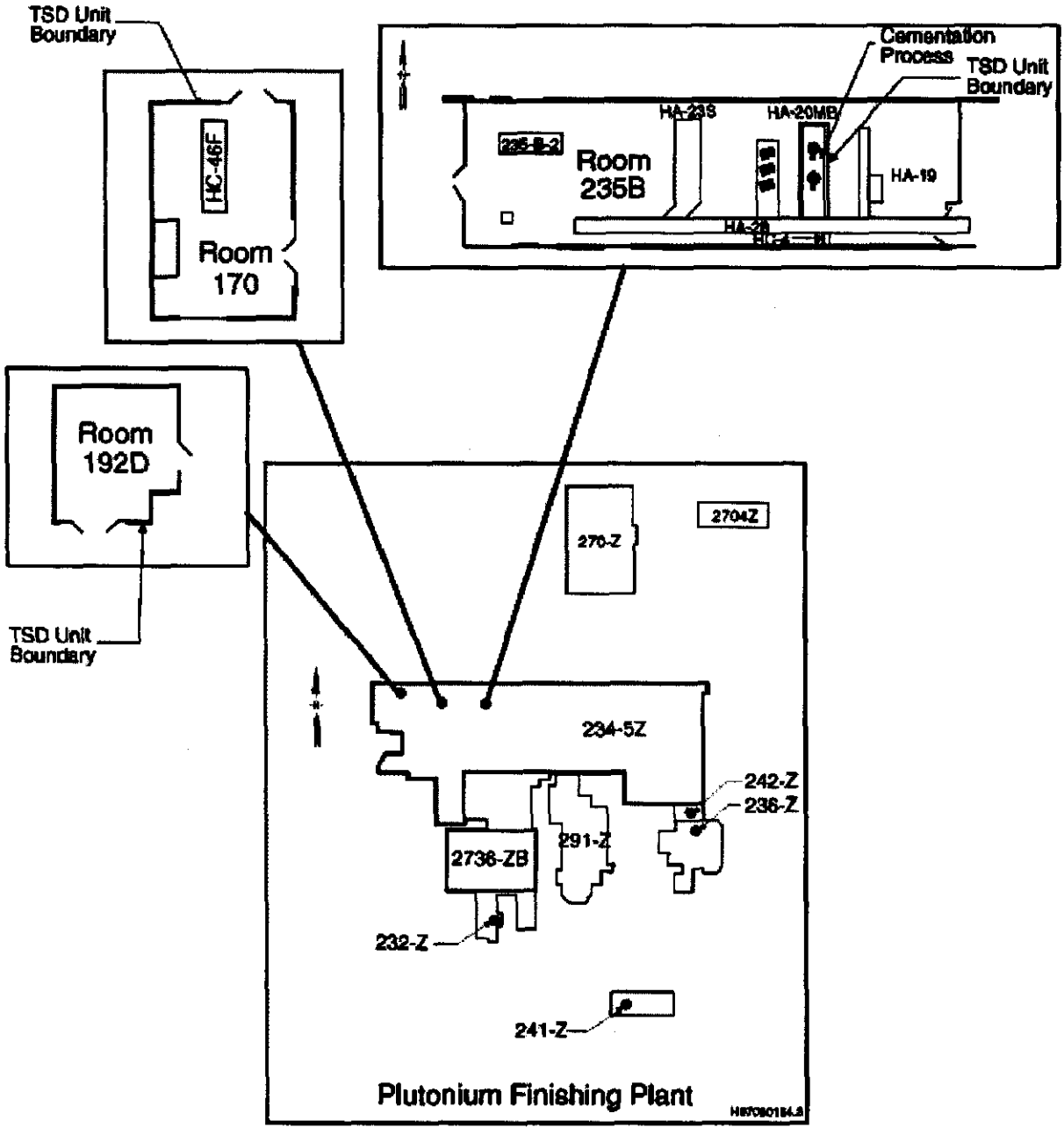


H98060093.2


270-Z
234-5Z
242-Z
230-Z
2736-Z
2736-ZB
291-Z
232-Z
241-Z
PFP
Site Location of
Plutonium Finishing Plant

H00060139.1

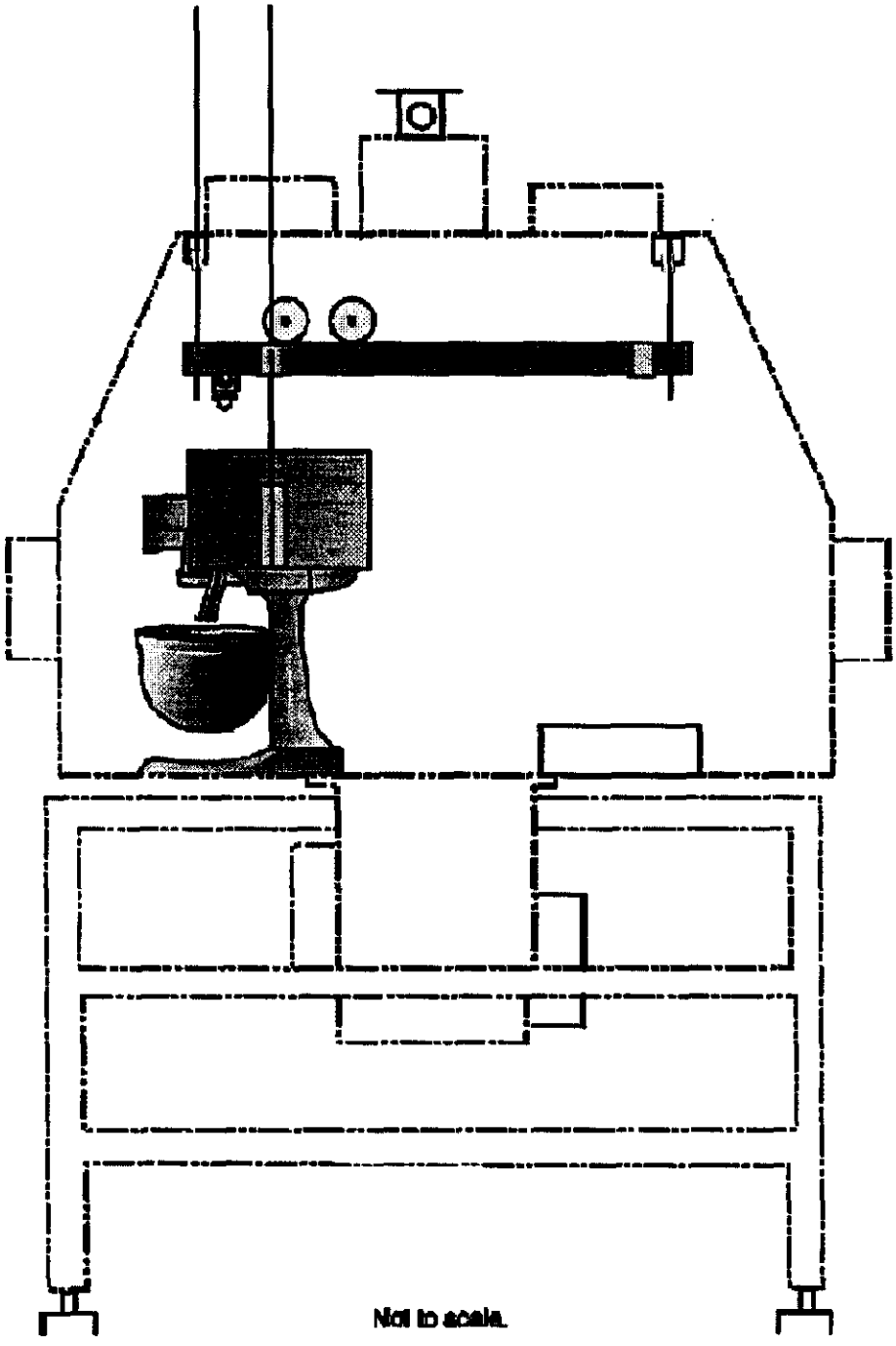
Plutonium Finishing Plant Container Storage Area



TSD = treatment, storage, and/or disposal

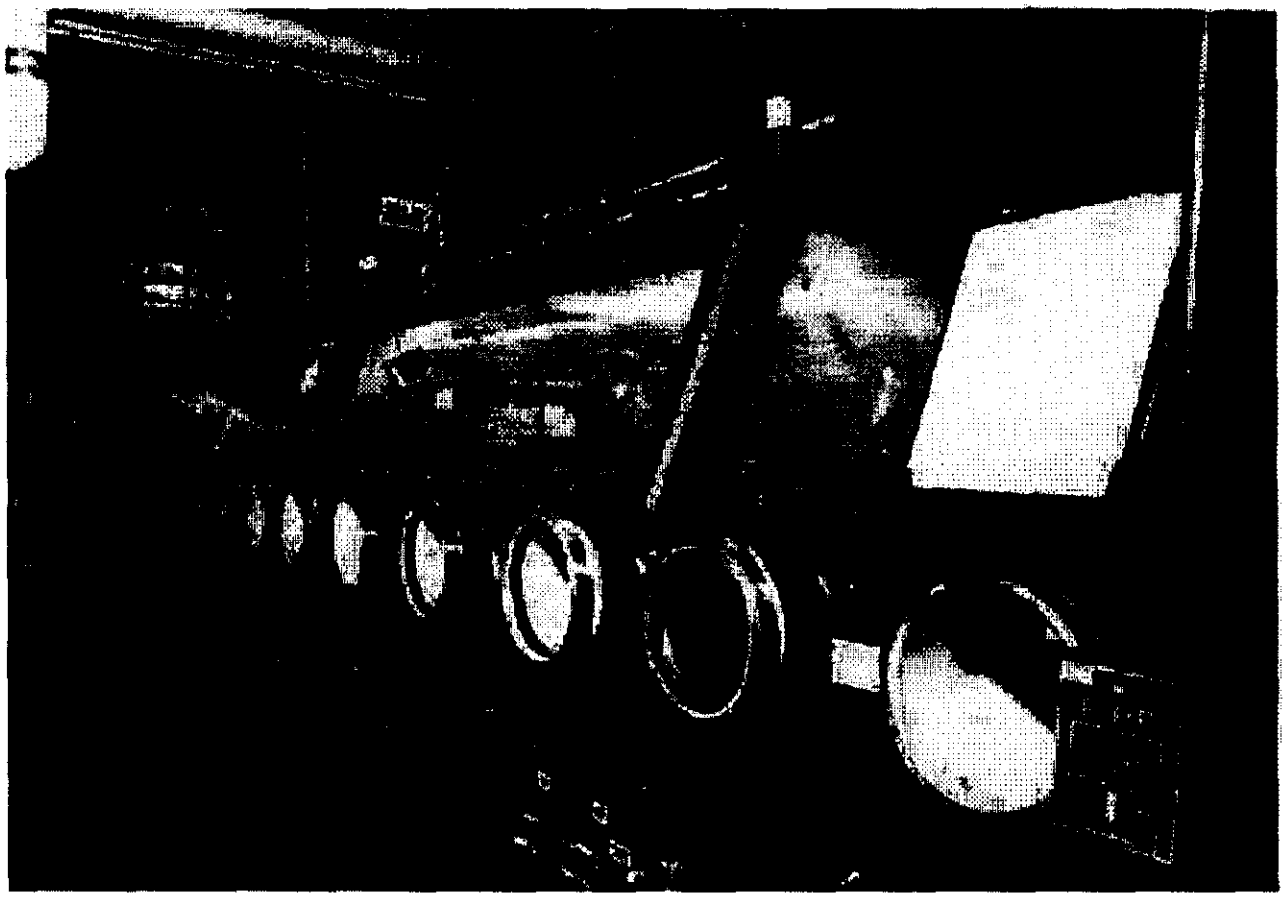
H00060139.2

Glovebox HA-20MB



H97050154.1R1

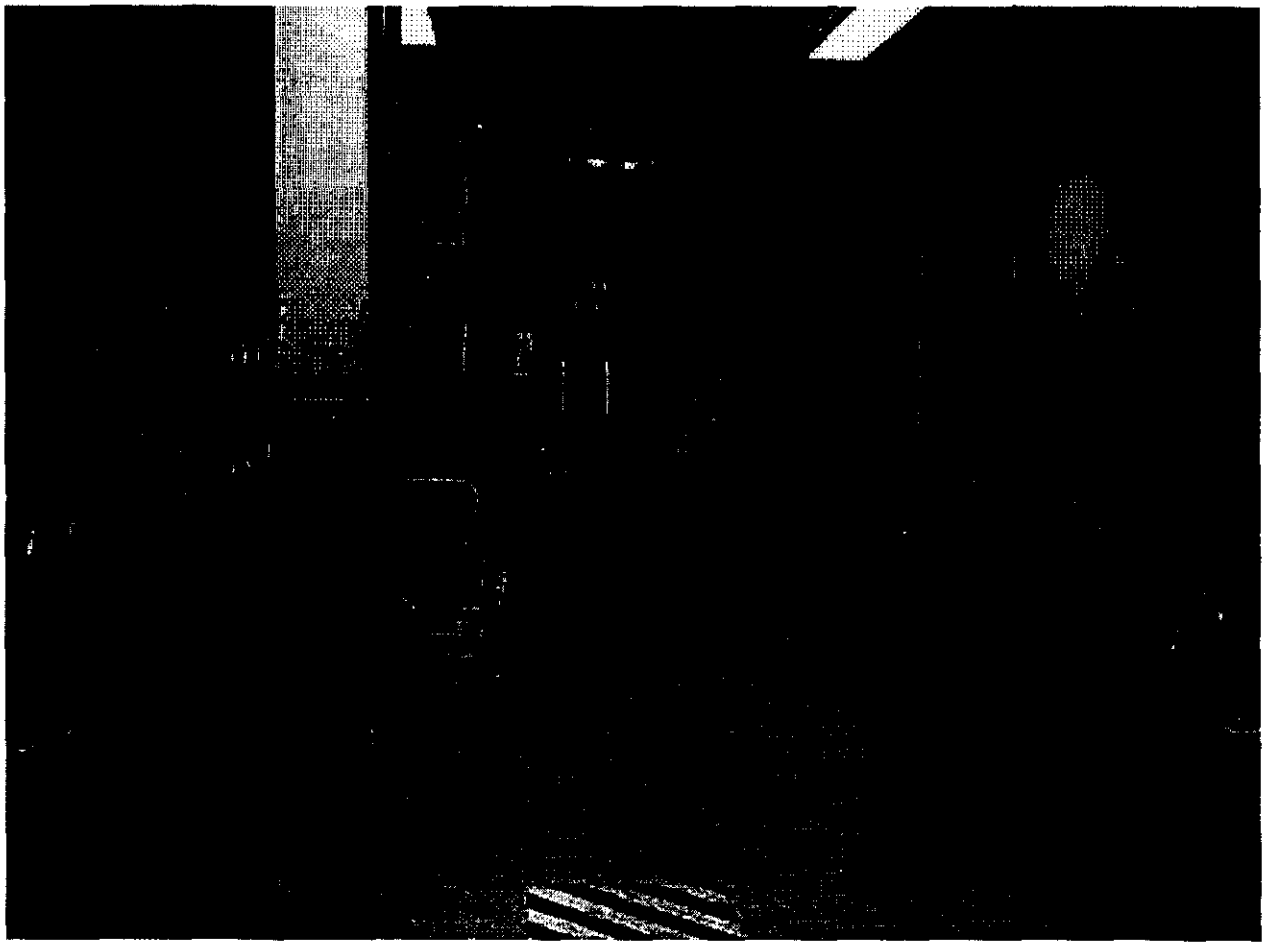
Room 235B Cementation Treatment Process Area



Glovebox HA-20MB
46°32'58"
119°38'20"

98030268-29CN
(PHOTO TAKEN 1998)

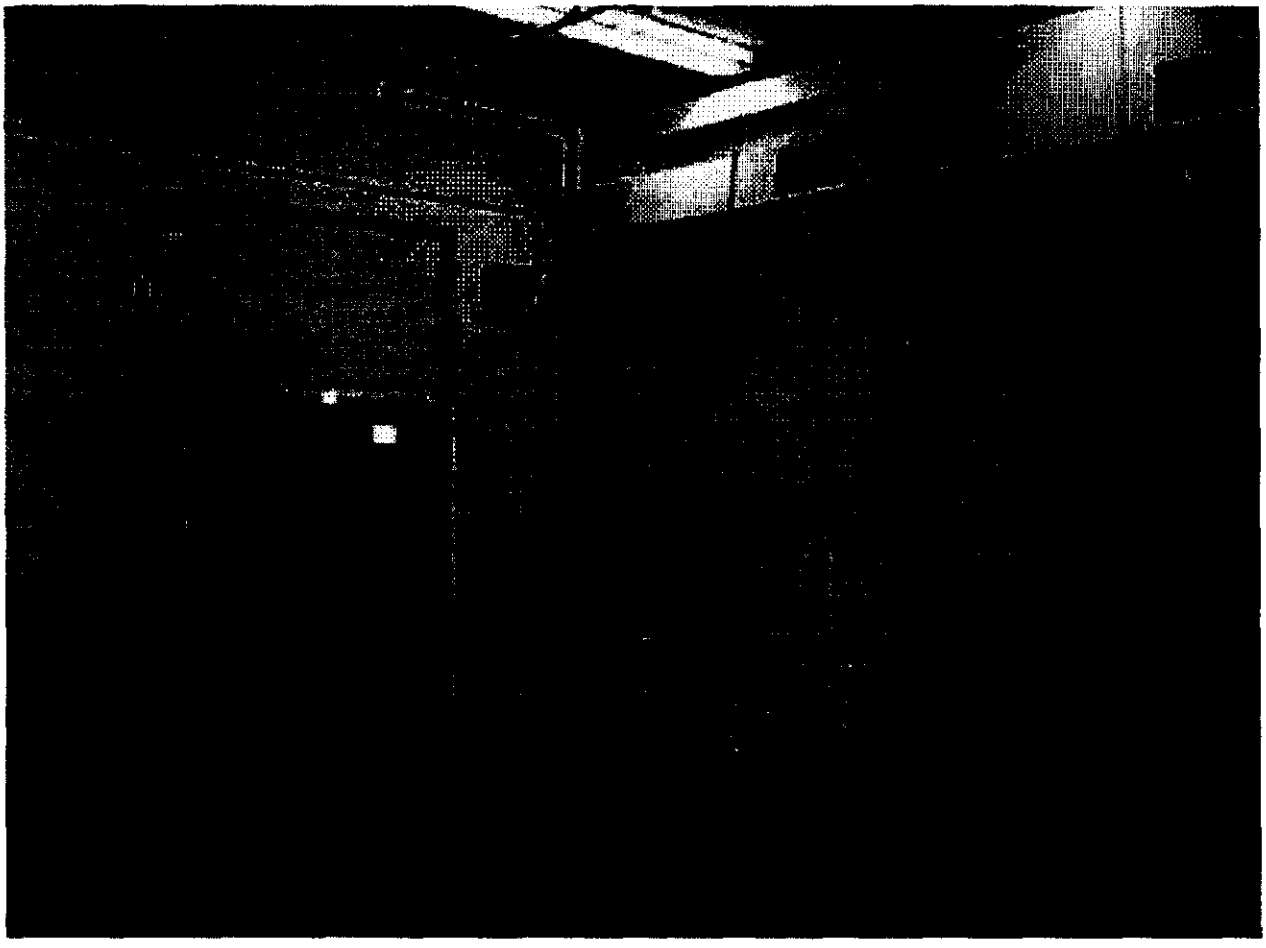
Room 170 Container Storage Area



Glovebox HC-46F
46°32'58"
119°38'20"

00060190-1DF
(PHOTO TAKEN 2000)

Room 192D Container Storage Area



46°32'58"
119°38'20"

00060190-2DF
(PHOTO TAKEN 2000)

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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4.2.1.12	Hanford Waste Vitrification Plant	6	09/30/1999	Denied
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4.2.1.15	Plutonium Finishing Plant Treatment and Storage Unit	2	07/05/2000	Denied

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[redacted]				
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4.2.2.2	Double-Shell Tank System	10	12/21/1999	Pending
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[redacted]				
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4.2.3.1	Low-Level Burial Grounds	11	12/23/1998	Denied
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[redacted]				
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4.2.3.10	216-A-37-1 Crib	2	06/30/1994	Pending
[redacted]				

[redacted]

4.3 300 AREA FACILITIES

4.3.1 Treatment Facilities

[redacted]

4.3.1.5	300 Area Waste Acid Treatment System	5	09/26/1996	Pending
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4.3.1.7	325 Hazardous Waste Treatment Units	4A	06/29/2000	08/18/00

[redacted]

4.3.2 Storage Facilities

4.3.2.1	311 Tanks	1	11/16/1987	Pending
4.3.2.2	303-K Storage Facility	5	09/26/1996	02/25/98
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[redacted]

4.3.3 Disposal Facilities

4.3.3.1	300 Area Process Trenches	4	05/25/1995	Pending

4.4 400 AREA FACILITIES

4.4.1 Treatment Facilities

4.4.1.1	437 Maintenance and Storage Facility	3	09/26/1996	Pending

4.4.2 Storage Facilities

4.4.2.1	4843 Alkali Metal Storage Facility CLEAN CLOSED 04/14/97	3	09/26/1996	04/14/97
4.4.2.2	Sodium Storage Facility and Sodium Reaction Facility	1	09/26/1996	Pending

4.5 600 AREA FACILITIES

4.5.1 Treatment Facilities

4.5.1.1	618-4 Burial Ground Pendleton Site CLEAN CLOSED 11/28/95	4	[illegible]	[illegible]

4.5.2 Storage Facilities

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4.6 3000 AREA FACILITIES

4.6.1 Treatment Facilities

4.6.1.1	Simulated High Level Waste Slurry Treatment/Storage CLEAN CLOSED 09/06/95	2	08/12/1994	09/06/95

DISCLAIMER

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

DOE/RL-88-21
Double-Shell Tank System
Rev. 9, 9/30/99

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

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 proper code from the list of process codes below that best describes each process to be used at the facility. For storage, provide the appropriate storage codes. If none of the processes listed apply, enter the code(s) in the space provided. If a process will be used that is not listed below, 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 I-B, enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column I-B, 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	TANK	T02	GALLONS PER HOUR OR LITERS PER HOUR
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	SURFACE IMPOUNDMENT	T03	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	INCINERATOR	T04	GALLONS PER HOUR OR LITERS PER HOUR; BTU PER HOUR
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 in Section III-C.)	T05	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	HECTARE-METER	Q
LITERS	L	TONS PER HOUR	D	ACRES	B
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	HECTARES	H
CUBIC METERS	C	GALLONS PER HOUR	E		
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	S02	124,654,500	L	
2	T01	124,654,500	V	
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.

The Double-Shell Tank (DST) System began operations between November 1955 and October 1986 (refer to the Tank Table on pages 3 and 4). The DST System is used for the interim storage (S02) of liquid mixed waste generated on the Hanford Facility. Several operating units in the 200 East and 200 West Areas transfer liquid mixed waste through buried double-encased transfer lines to designated underground DSTs. Other types of liquid mixed waste in the DST System are received from railroad tank car transfers, tank truck transfers, the Single-Shell Tank (SST) System, and smaller temporary storage tanks.

Pretreatment will be performed as necessary at a future unit and/or at the 242-A Evaporator. The low-level liquid mixed waste is accumulated in the DST System until the waste is transferred for treatment to a proposed low-level vitrification plant in preparation for final disposal. The high-level liquid mixed waste from the DST System could be treated at the proposed Hanford Waste Vitrification Plant (HWVP) and shipped to a national repository for disposal. The HWVP could be superseded by another high-level waste immobilization facility.

The tanks in the DST System are considered treatment units (T01) because chemicals can be added for corrosion control, the waste can be mixed using equipment such as airlift circulators or pumps, and water can be evaporated from the aging waste tanks by adding heat.

The tanks in the DST System are shown on the Tank Table (pages 3 and 4), which includes tank numbers, locations, design capacities, and operational dates. The specific TSD unit boundaries will be defined in the DST System Dangerous Waste Part B permit application documentation.

The maximum process design capacity for tank storage at the DST System is approximately 124,654,500 liters (32,930,230 gallons). The maximum process design capacity for tank treatment at the DST System is approximately 124,654,500 liters (32,930,230 gallons).

Tank Table

1. There are twenty-four nonaging* DSTs.

Tank Number	Location	Design Capacity (liters)	Operation Date
241-AN-101	200 East Area	4,542,480	9/81
241-AN-102	200 East Area	4,542,480	9/81
241-AN-103	200 East Area	4,542,480	9/81
241-AN-104	200 East Area	4,542,480	9/81
241-AN-105	200 East Area	4,542,480	9/81
241-AN-106	200 East Area	4,542,480	9/81
241-AN-107	200 East Area	4,542,480	9/81
241-AP-101	200 East Area	4,542,480	10/86
241-AP-102	200 East Area	4,542,480	10/86
241-AP-103	200 East Area	4,542,480	10/86
241-AP-104	200 East Area	4,542,480	10/86
241-AP-105	200 East Area	4,542,480	10/86
241-AP-106	200 East Area	4,542,480	10/86
241-AP-107	200 East Area	4,542,480	10/86
241-AP-108	200 East Area	4,542,480	10/86
241-AW-101	200 East Area	4,542,480	8/80
241-AW-102	200 East Area	4,542,480	8/80
241-AW-103	200 East Area	4,542,480	8/80
241-AW-104	200 East Area	4,542,480	8/80
241-AW-105	200 East Area	4,542,480	8/80
241-AW-106	200 East Area	4,542,480	8/80
241-SY-101	200 West Area	4,542,480	4/77
241-SY-102	200 West Area	4,542,480	4/77
241-SY-103	200 West Area	4,542,480	4/77

* Nonaging is a waste that is not neutralized current acid waste.

2. There are four aging* waste DSTs.

Tank Numbers	Location	Design Capacity (liters)	Operation Date
241-AY-101	200 East Area	3,785,400	4/71
241-AY-102	200 East Area	3,785,400	4/76**
241-AZ-101	200 East Area	3,735,400	11/76
241-AZ-102	200 East Area	3,735,400	11/76

* Aging waste is neutralized current acid waste generated from the PUREX Plant.

** Estimated operational date

3. There is one tank in a transfer building.

Tank Number	Location	Design Capacity (liters)	Operation Date
241-EW-151	200 East Area Vent Station	3,028	11/55*

* Estimated operational date.

4. There are five double-contained receiver tanks.

Tank Number	Location	Design Capacity (liters)	Operation Date
244-BX	200 East Area	117,347	1983
244-TX	200 West Area	117,347	12/81
244-U	200 West Area	117,347	N/A
244-A	200 East Area	61,626	1975
244-S	200 West Area	76,768	1987

DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NUMBER: Enter the dangerous waste number from 40 CFR Part 261 for each listed dangerous waste and/or a state dangerous waste code for each state dangerous waste. Use a separate line for each dangerous waste.

B. ESTIMATED ANNUAL QUANTITY: For each listed waste entered in column A, estimate the quantity of that waste generated or received annually. Express the quantity in the units of measure entered in column C. Use the nonspecific source number, if applicable, and estimate the quantity generated by that source.

C. UNIT OF MEASURE: For each quantity entered in column B, enter the unit of measure code. Units of measure which may be used are the following:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If the waste is in a form other than a pressurized gas, liquid, or sludge, the quantity should be converted into one of the provided units of measure using the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

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

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

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Check the box in the upper right box of Item IV-D(1); and (3) 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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes which may be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D to include the annual quantity of the waste and describing all the 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 the line enter "Included with above" and make no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat 1/3 of an estimated 300 pounds per year of chrome shavings from 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)				D. PROCESSES 2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K064	100	P	T03	D80			
X-2	D002	100	P	T03	D80			
X-3	D001	100	P	T03	D80			
X-4	D002			T03	D80			Included with above
1	D001	426,850,108*	K	S02	T01			Storage-Tank/Treatment-Tank
* All dangerous waste numbers listed are included in this quantity.								
2	D002		↓	↓	↓			↓
	D003		↓	↓	↓			↓
4	D004		↓	↓	↓			↓
5	D005		↓	↓	↓			↓
6	D006		↓	↓	↓			↓

7	D007		↓	↓	↓			↓
8	D008		↓	↓	↓			↓
9	D009		↓	↓	↓			↓
10	D010		↓	↓	↓			↓
[illegible]	D011		↓	↓	↓			↓
12	D018		↓	↓	↓			↓
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	WT01		↓	↓	↓			↓
28	WT02		↓	↓	↓			↓
29	WP01		↓	↓	↓			↓
30	WP02		↓	↓	↓			↓
31	F001		↓	↓	↓			↓
32	F002		↓	↓	↓			↓
[illegible]	F003		↓	↓	↓			↓
[illegible]	F004		↓	↓	↓			↓
35	F005		↓	↓	↓			↓
36	F039		↓	↓	↓			Included With above
37								
38								
39								
40								

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

The types of liquid mixed waste that could be stored, chemically treated, and evaporated in the DST System are as follows:

- Dilute miscellaneous waste generated on the Hanford Facility (100, 200, 300, 400 Areas, and the 340 Complex)
- Supernate and transuranic sludges that consist of neutralized cladding removal waste generated during Plutonium-Uranium Extraction (PUREX) Plant headend operations, and waste generated during the Plutonium Finishing Plant processing
- Concentrated DST waste (slurry) from the 242-A Evaporator
- Concentrated complexed waste and complexed waste generated from B Plant processing
- Neutralized current acid waste from the first extraction column at the PUREX Plant
- Liquid waste from the SST System
- Waste from the Grout Treatment Facility
- T Plant Complex decontamination activities
- Waste from the 204-AR Waste Unloading Station
- Leachate resulting from Hanford Facility land disposal and surface impoundment operations.

It is possible that any of these waste types could be stored and/or treated in any of the nonaging or aging DSTs.

The list of dangerous waste under Section IV.A includes constituents that have not been detected in the waste; however, knowledge of processes providing the waste to the DST System indicates the strong possibility that these constituents will be in the waste. Other constituents listed under

Section IV.A have not been detected in the waste; however, the DST System has the potential to store these constituents. Multi-source Leachate (F039) is included as a waste derived from nonspecific source wastes F001 through F005.

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

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)*				

'I. 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	Robert M. Rossell for	09/30/1999

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.

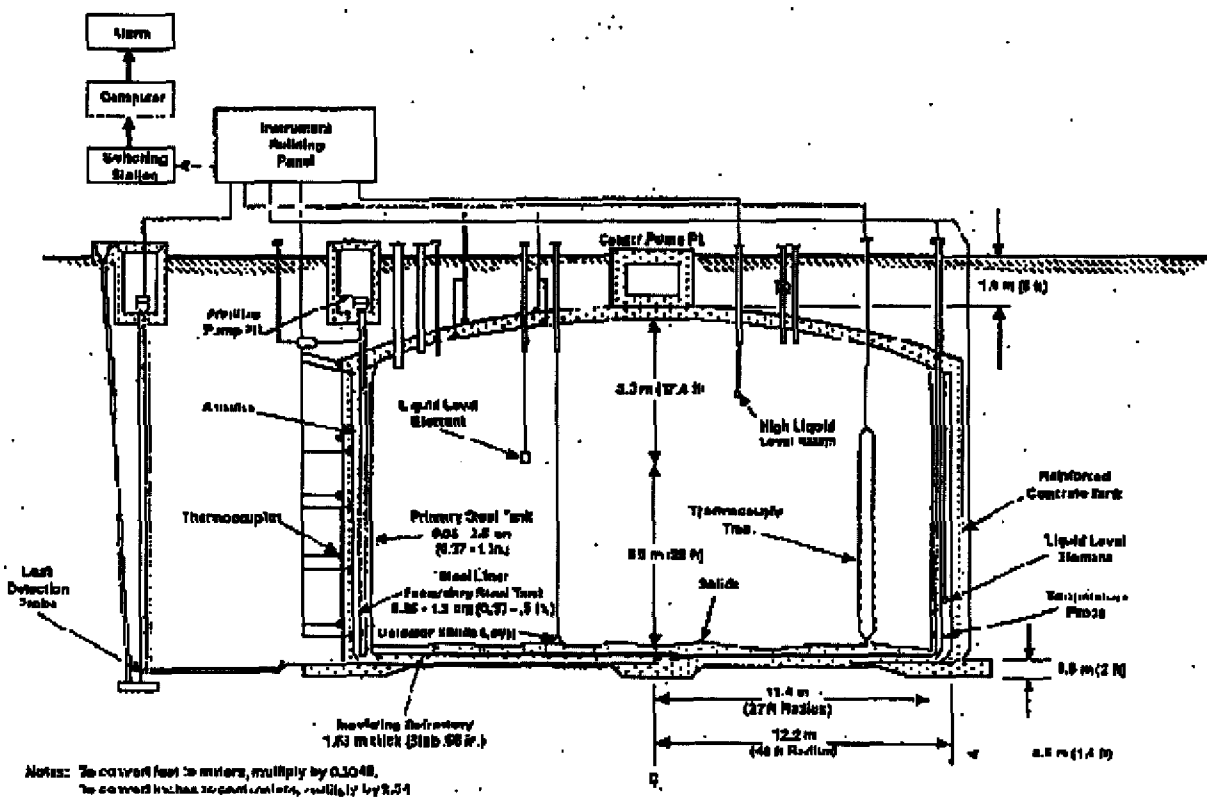
Robert M. Rosselli for
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy

9/30/99
Date

M. P. DeLozier
Co-Operator
M. P. DeLozier
President and RPP General Manager
Lockheed Martin Hanford Corporation

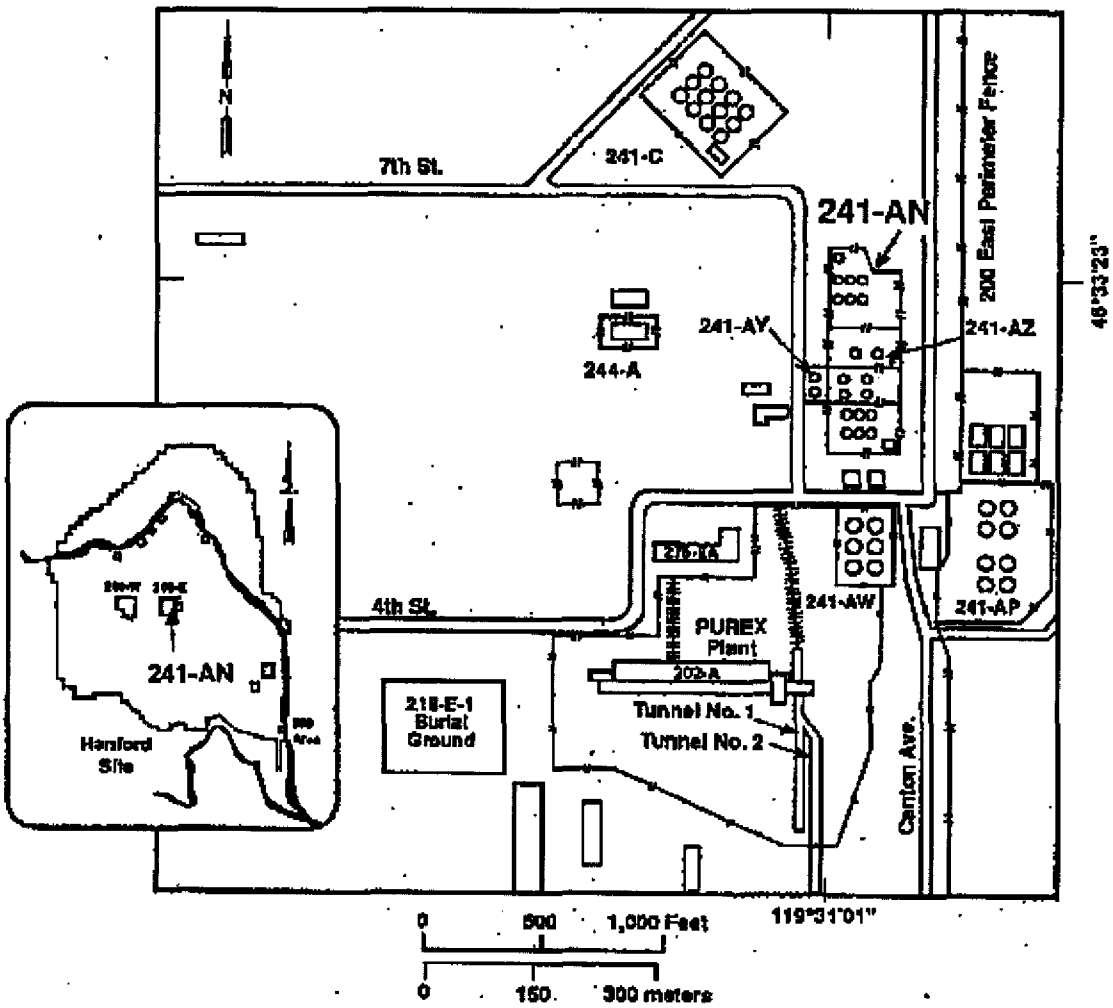
9/24/99
Date

Typical Nonaging Waste Double-Shell Tank



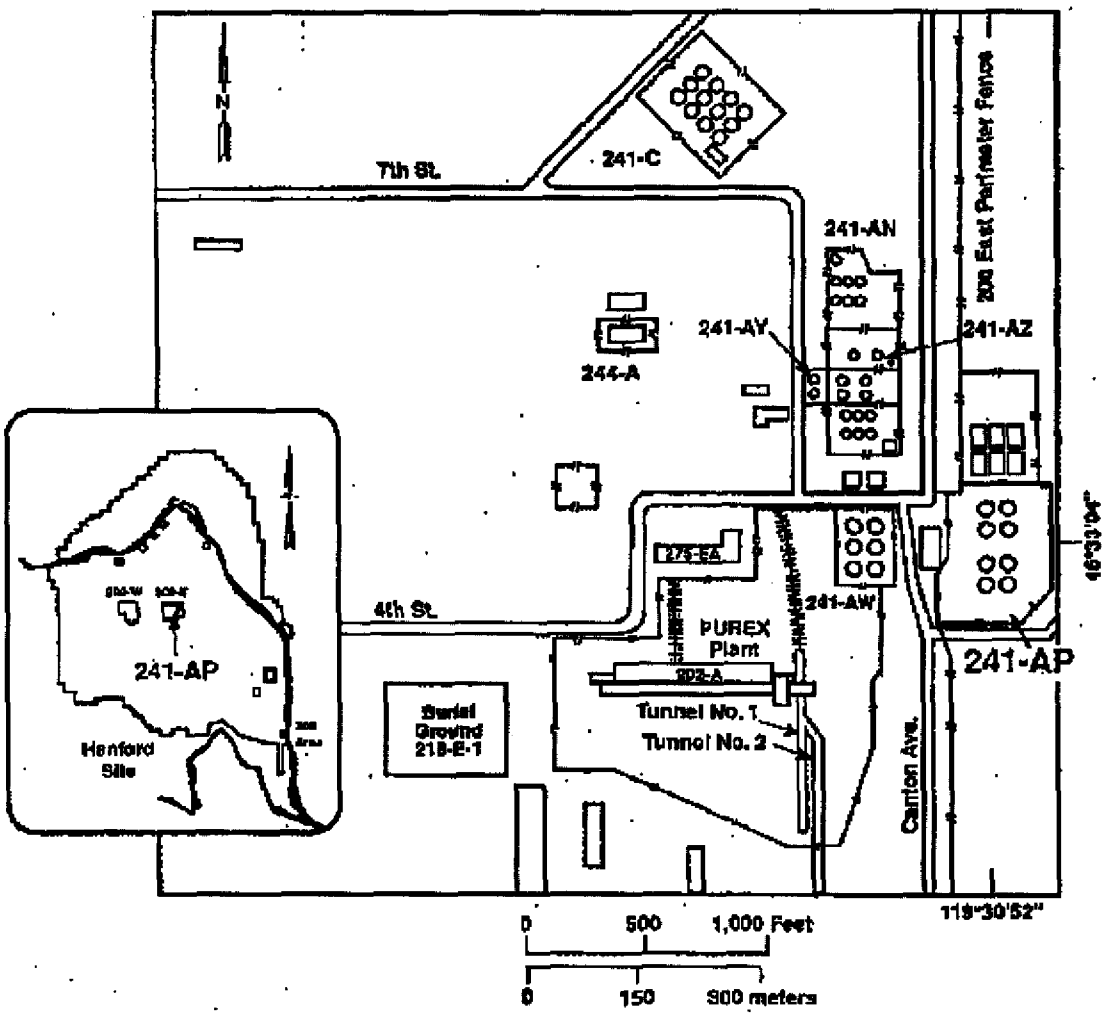
39211048.3a

241-AN Double-Shell Tank Site Plan



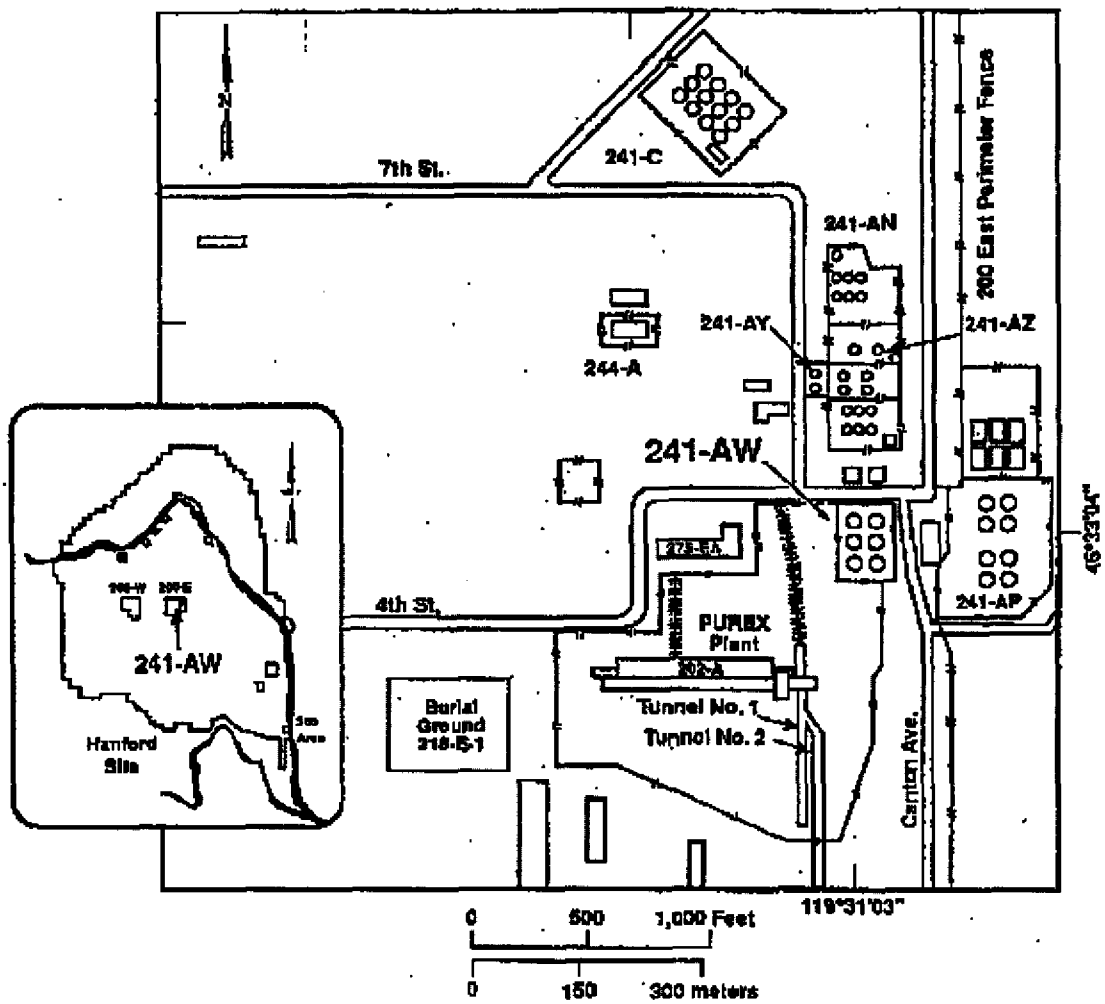
H96070161.27b

241-AP Double-Shell Tank Site Plan



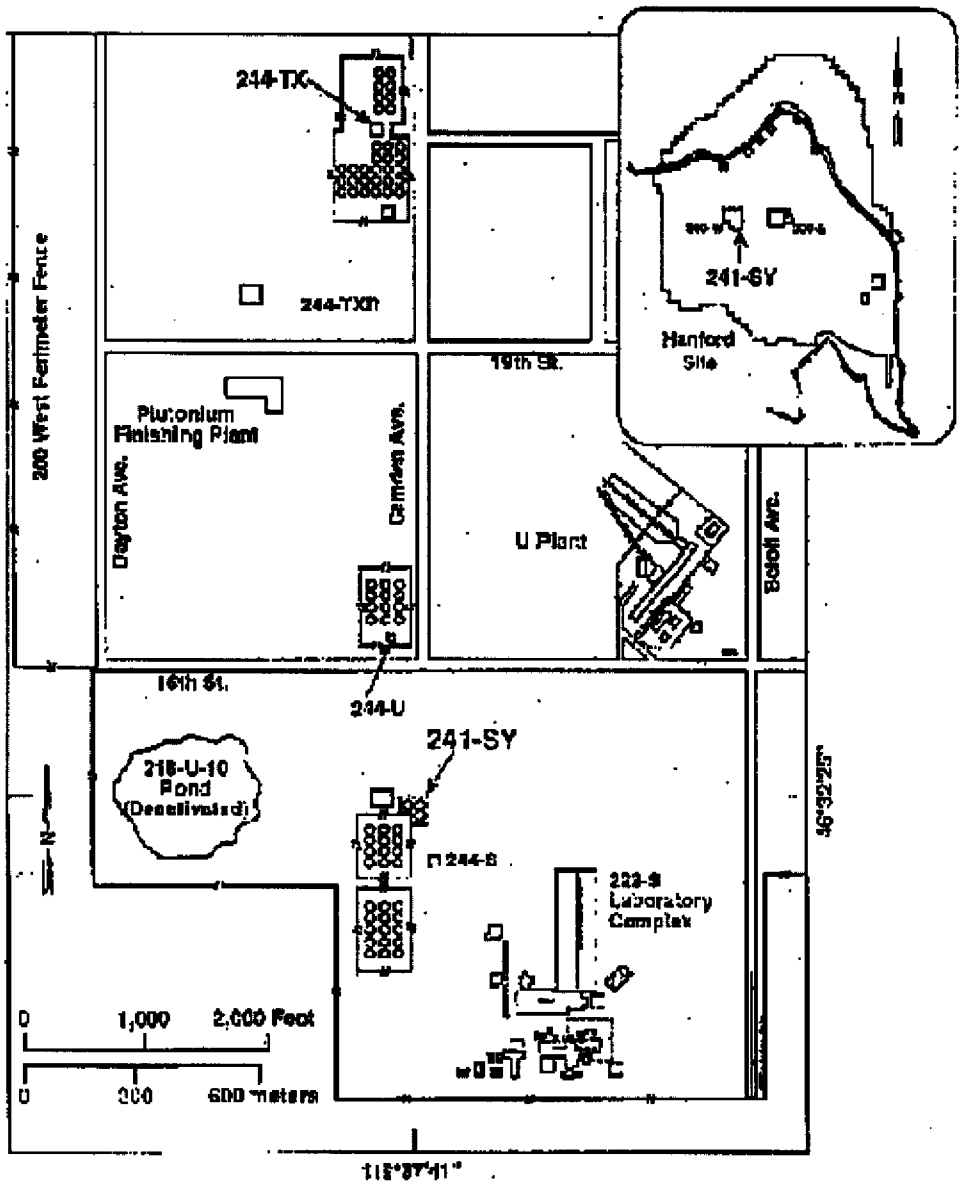
H96070161.27c

241-AW Double-Shell Tank Site Plan



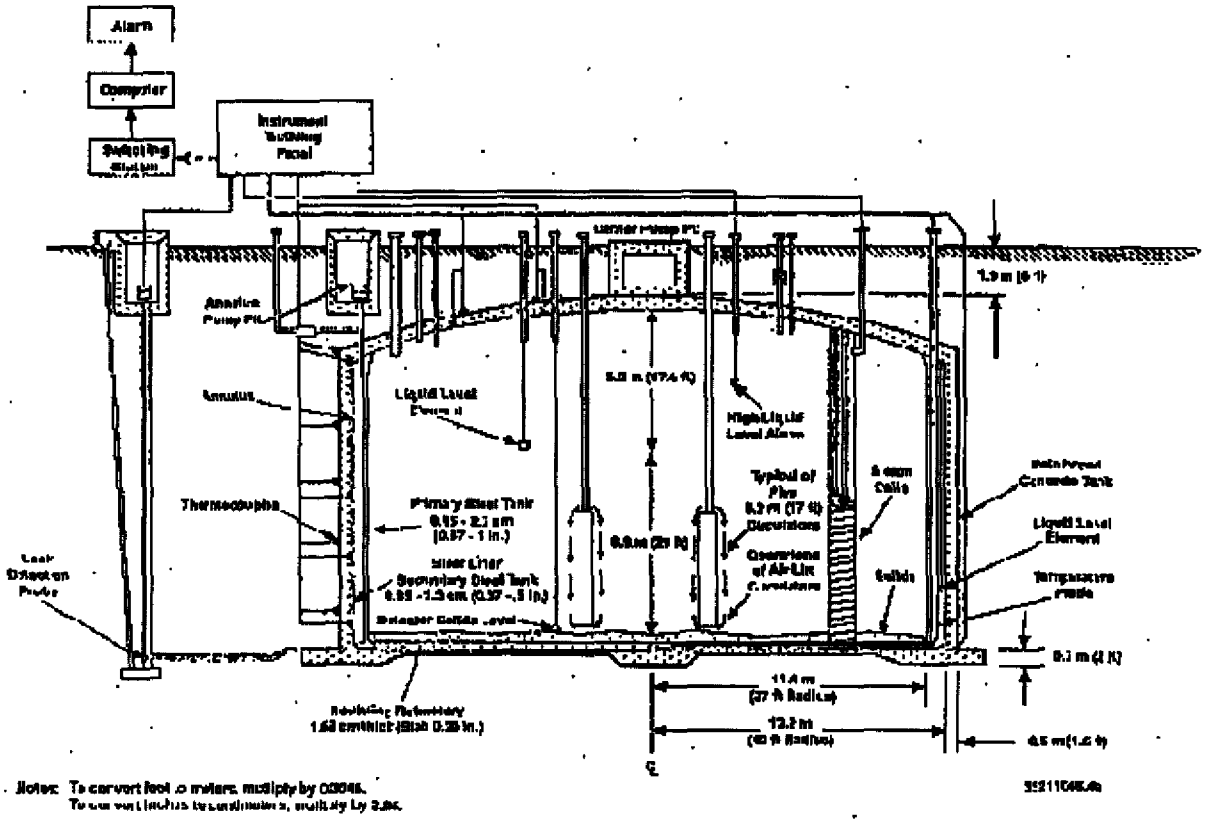
H96070161.27d

241-SY Double-Shell Tank Site Plan



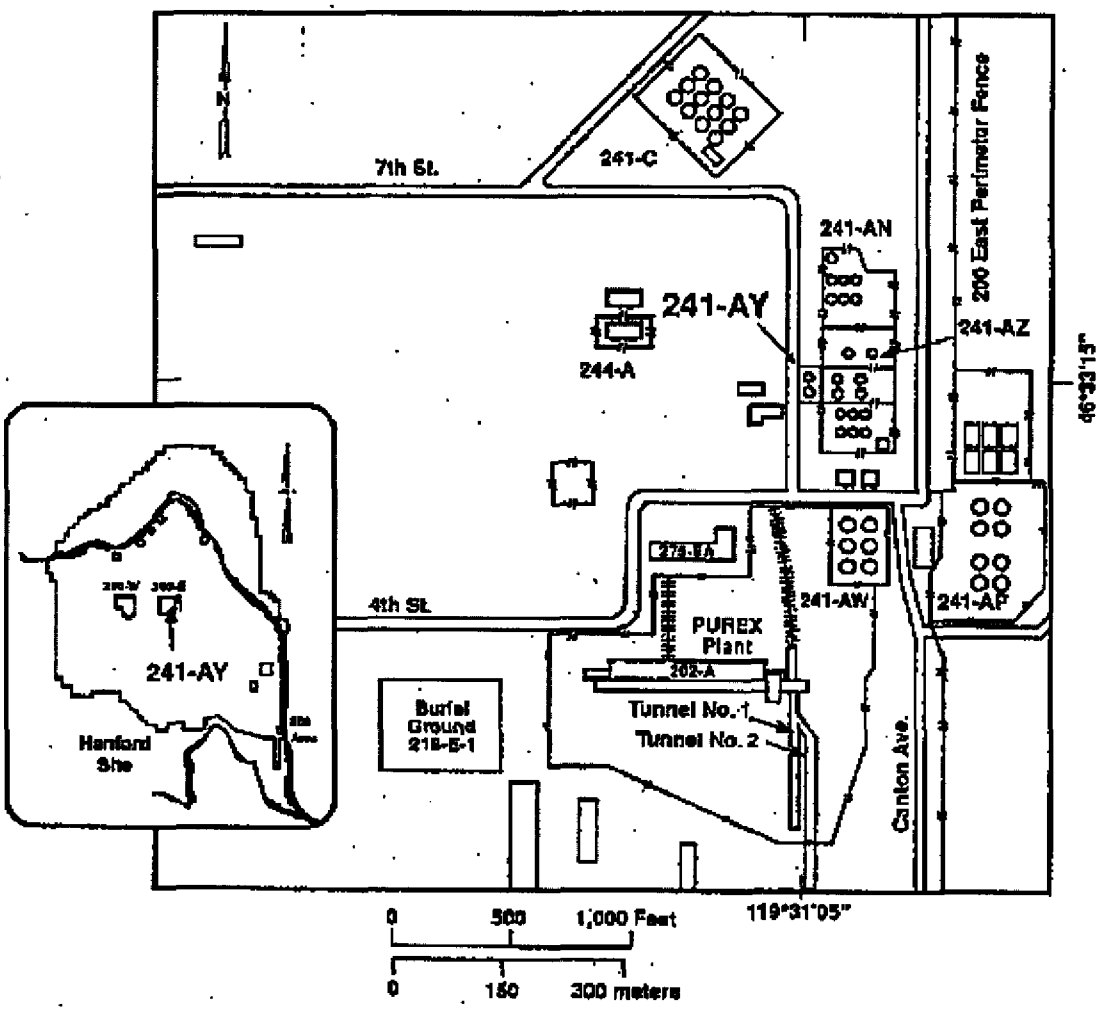
H96070161.34a

Typical Aging Waste Double-Shell Tank



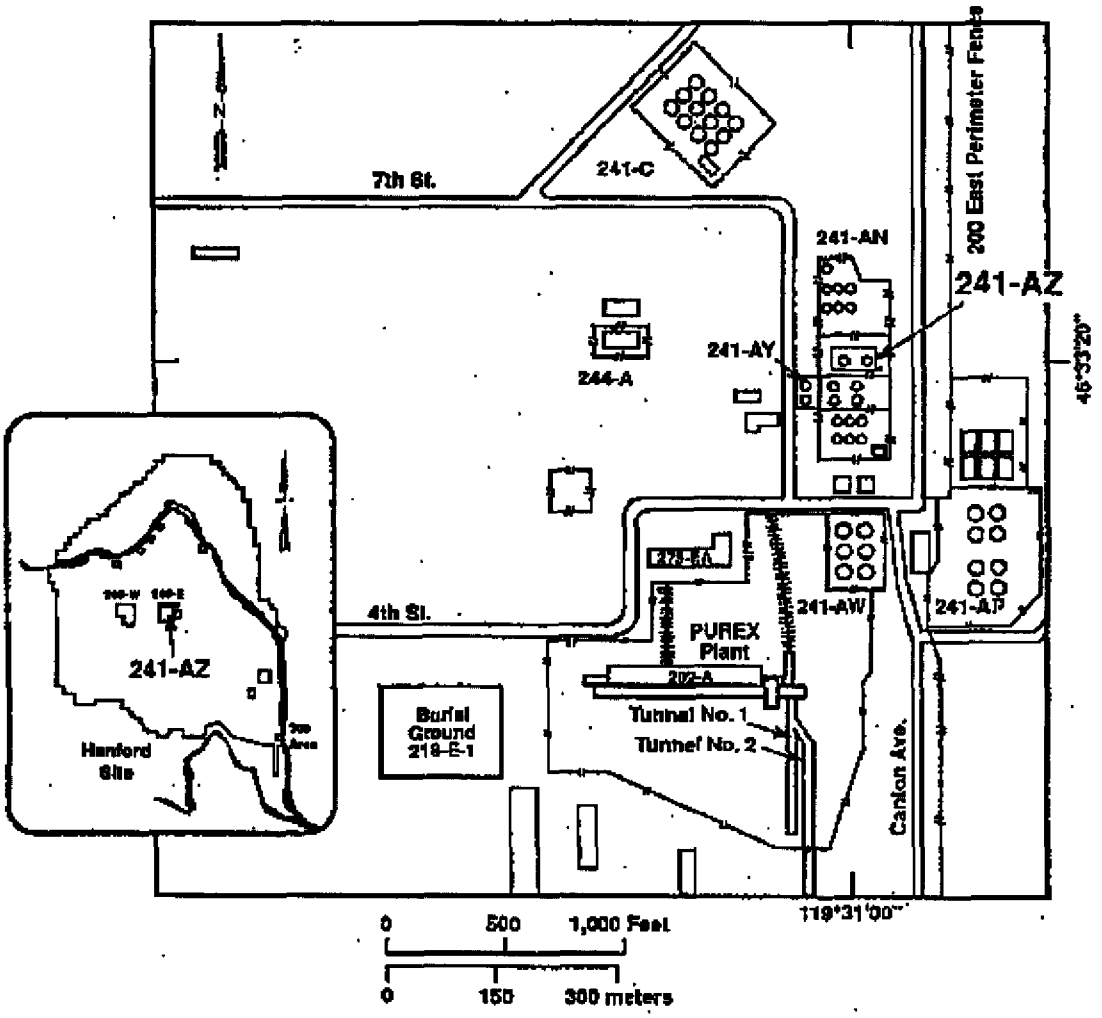
39211048.4a

241-AY Aging Waste Double-Shell Tank Site Plan



H96070161.27e

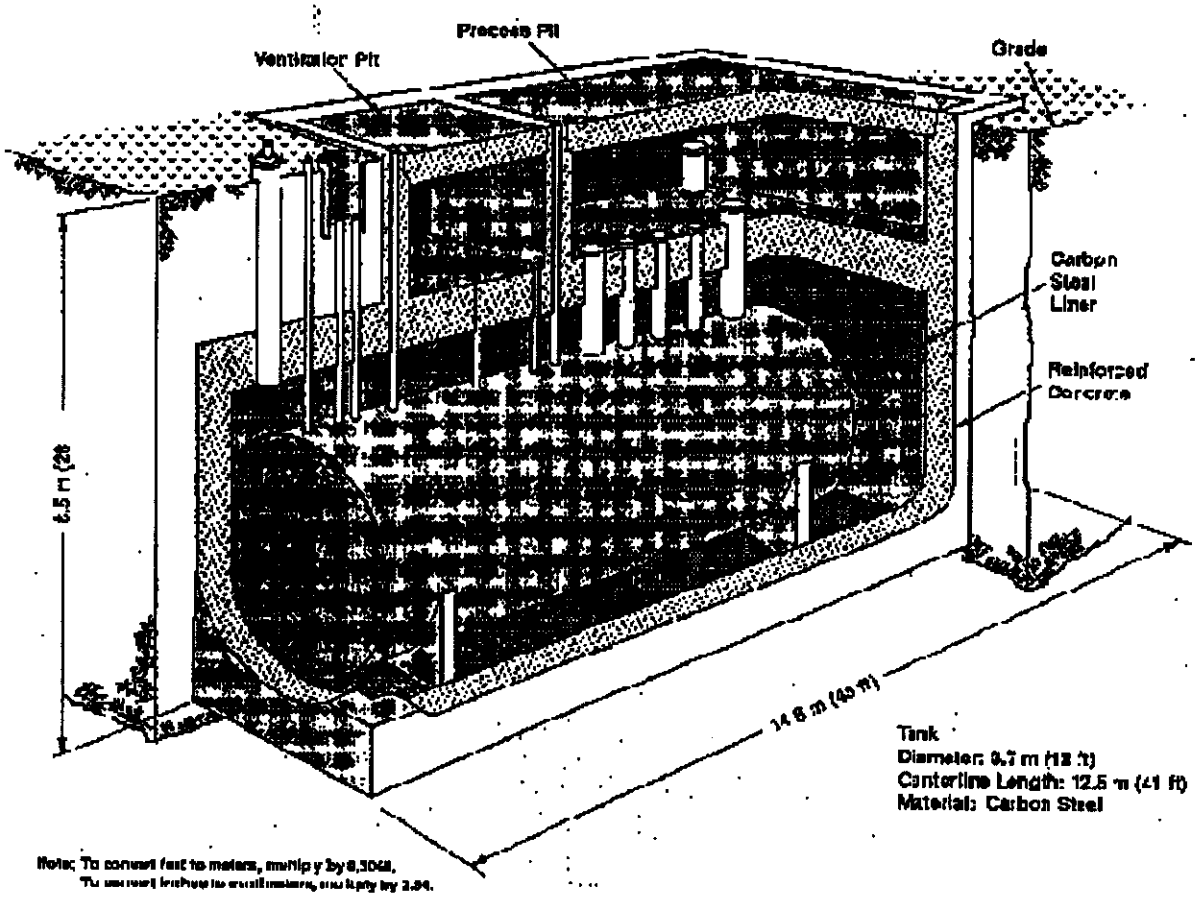
241-AZ Aging Waste Double-Shell Tank Site Plan



H96070161.27f

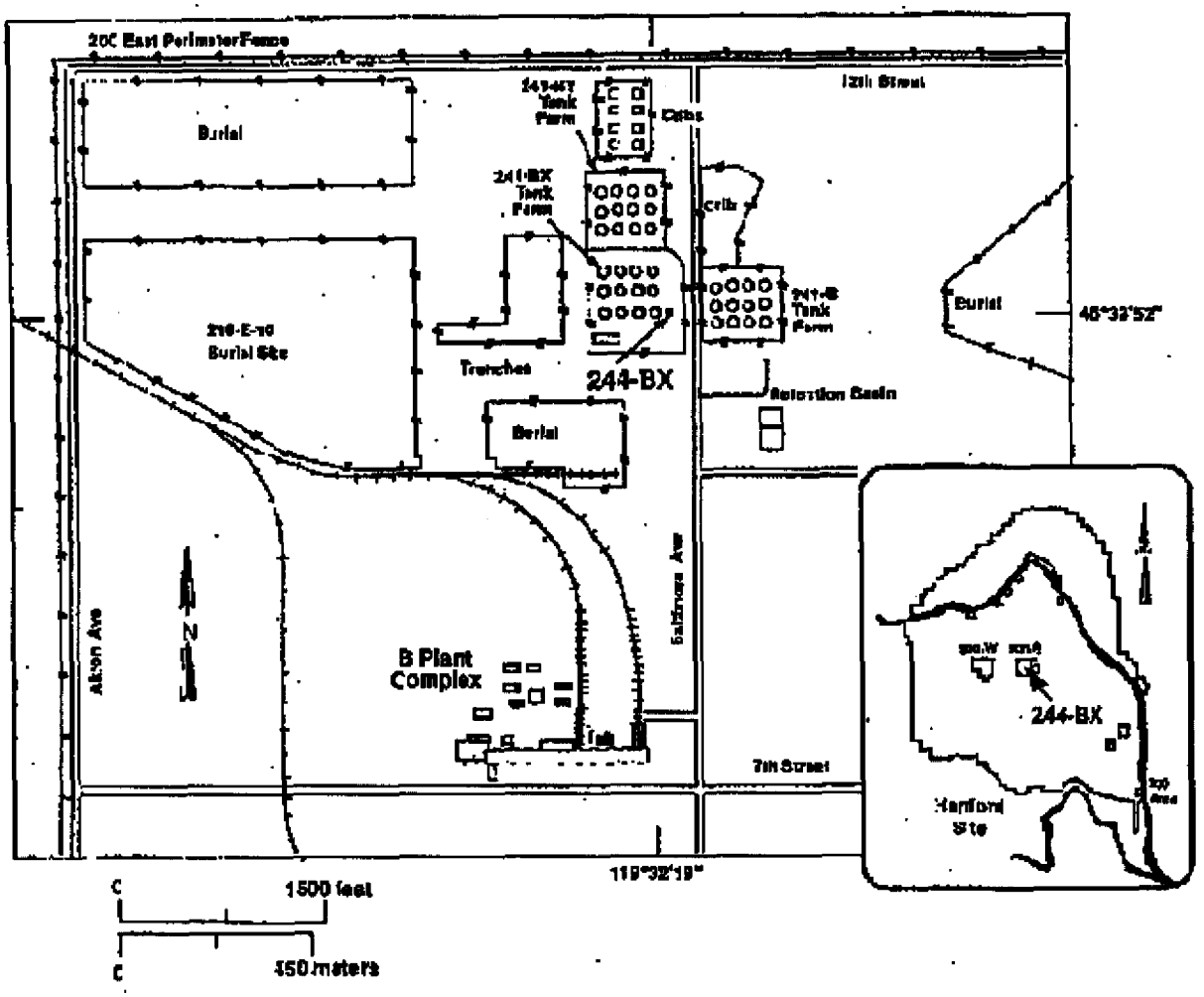
TYPICAL DOUBLE-CONTAINED RECEIVER TANK

(244-BX, 244-TX, and 244-U)



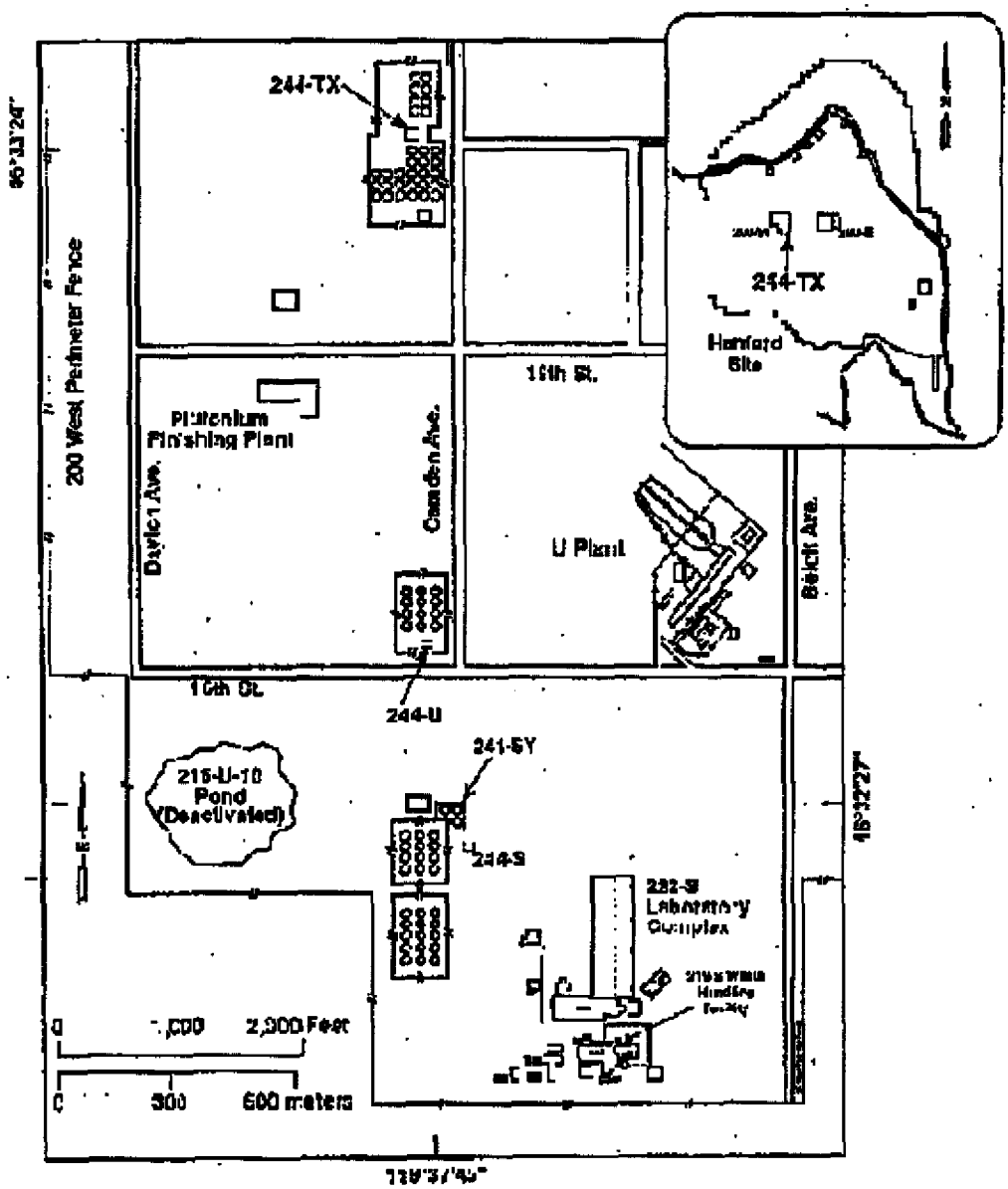
39208044.1

244-BX Double-Contained Receiver Tank Site Plan



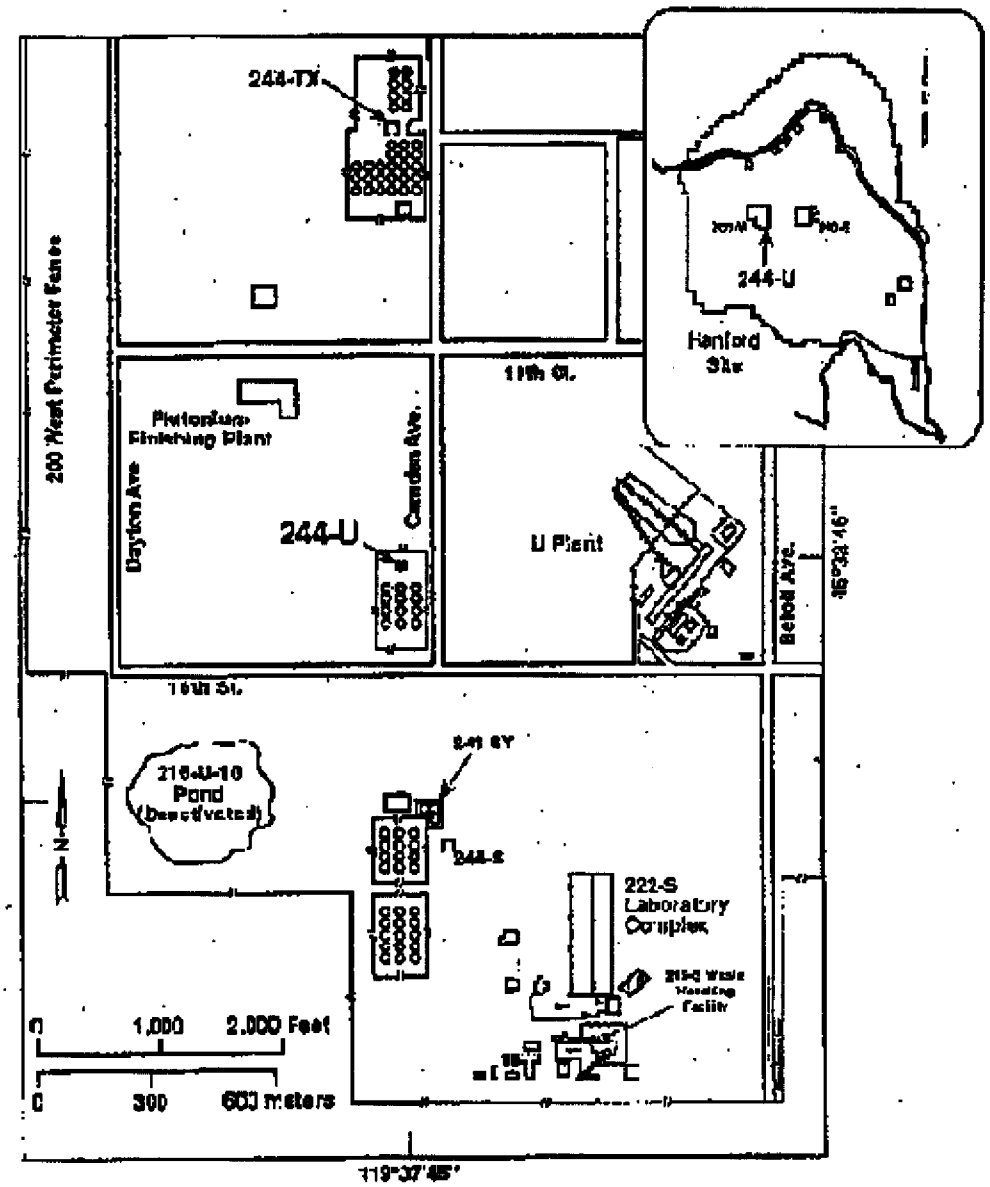
H96070161.41d

244-TX Double-Contained Receiver Tank Site Plan



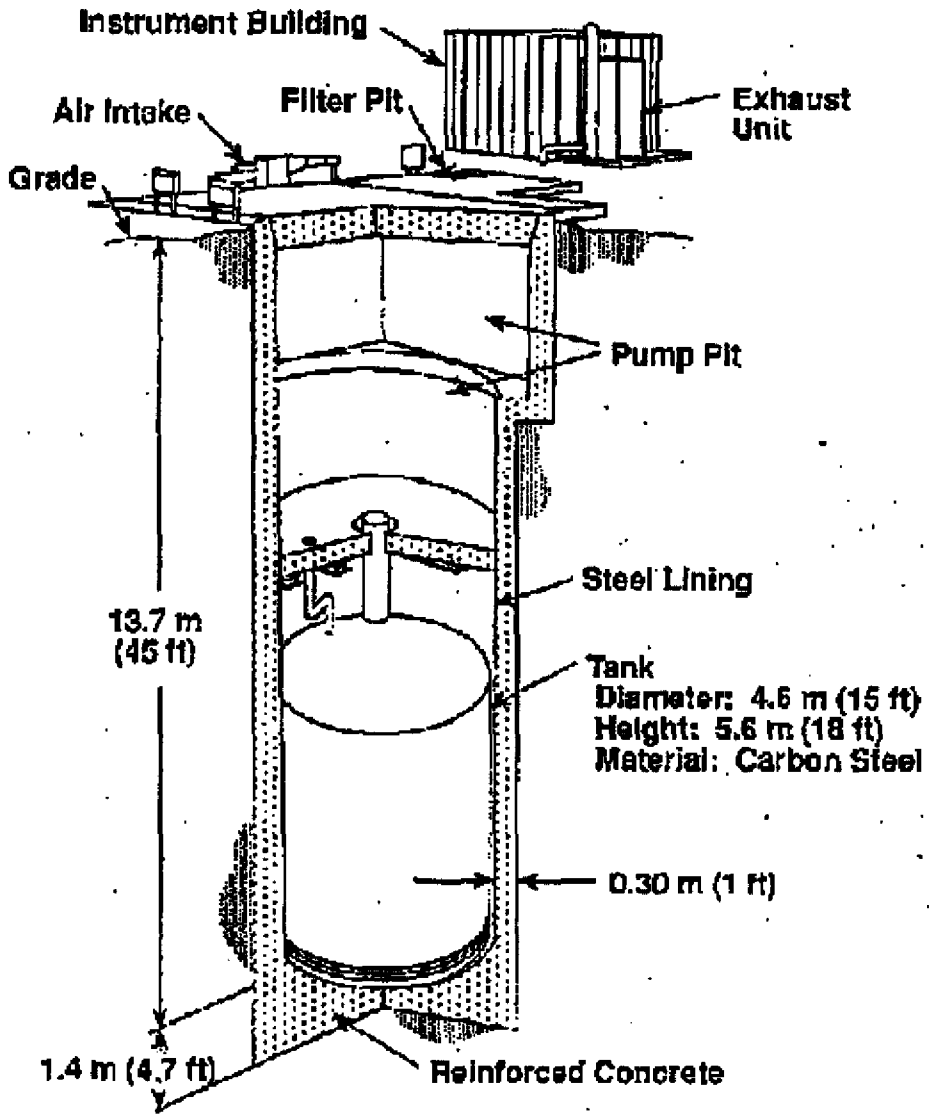
H96070161.34b R1

244-U Double-Contained Receiver Tank Site Plan



H96070161.34c

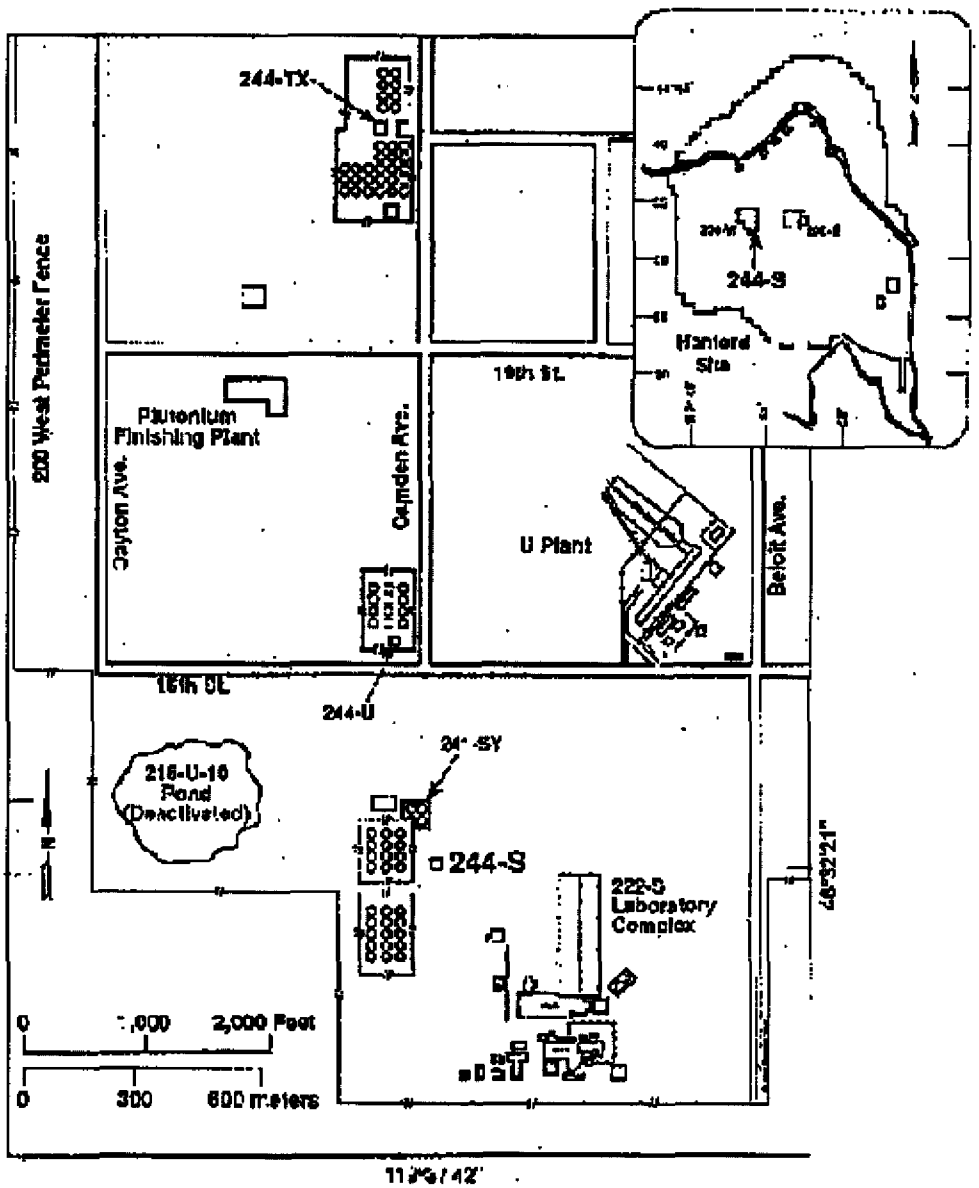
Typical Double-Contained Receiver Tank (244-A and 244-S)



Notes: To convert feet to meters, multiply by 0.3048.

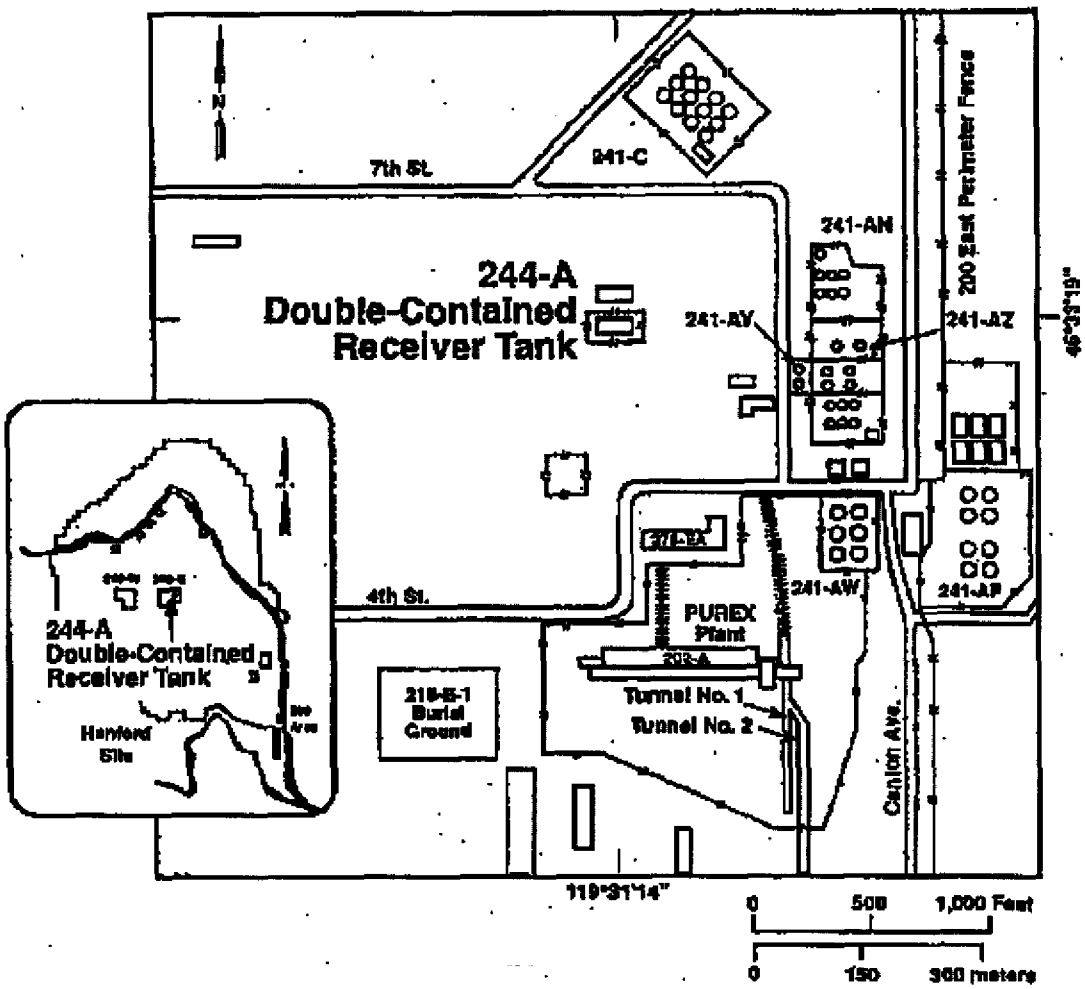
39208044.21

244-S Double-Contained Receiver Tank Site Plan



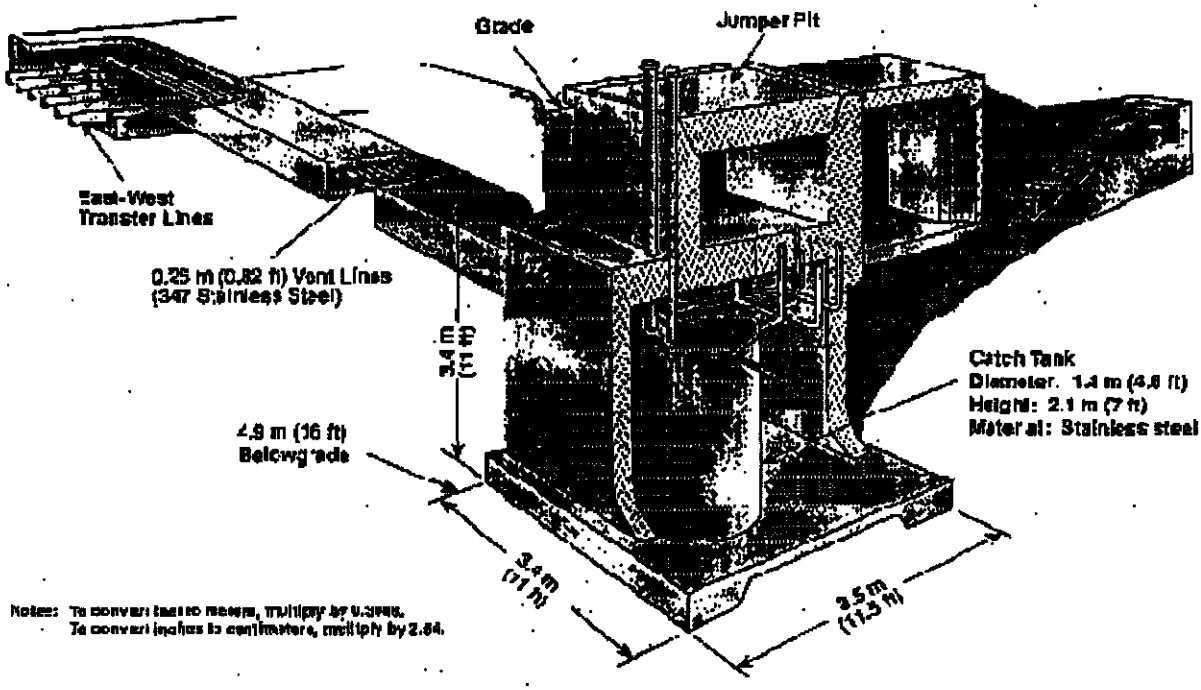
H96070161.34d

244-A Double-Contained Receiver Tank Site Plan



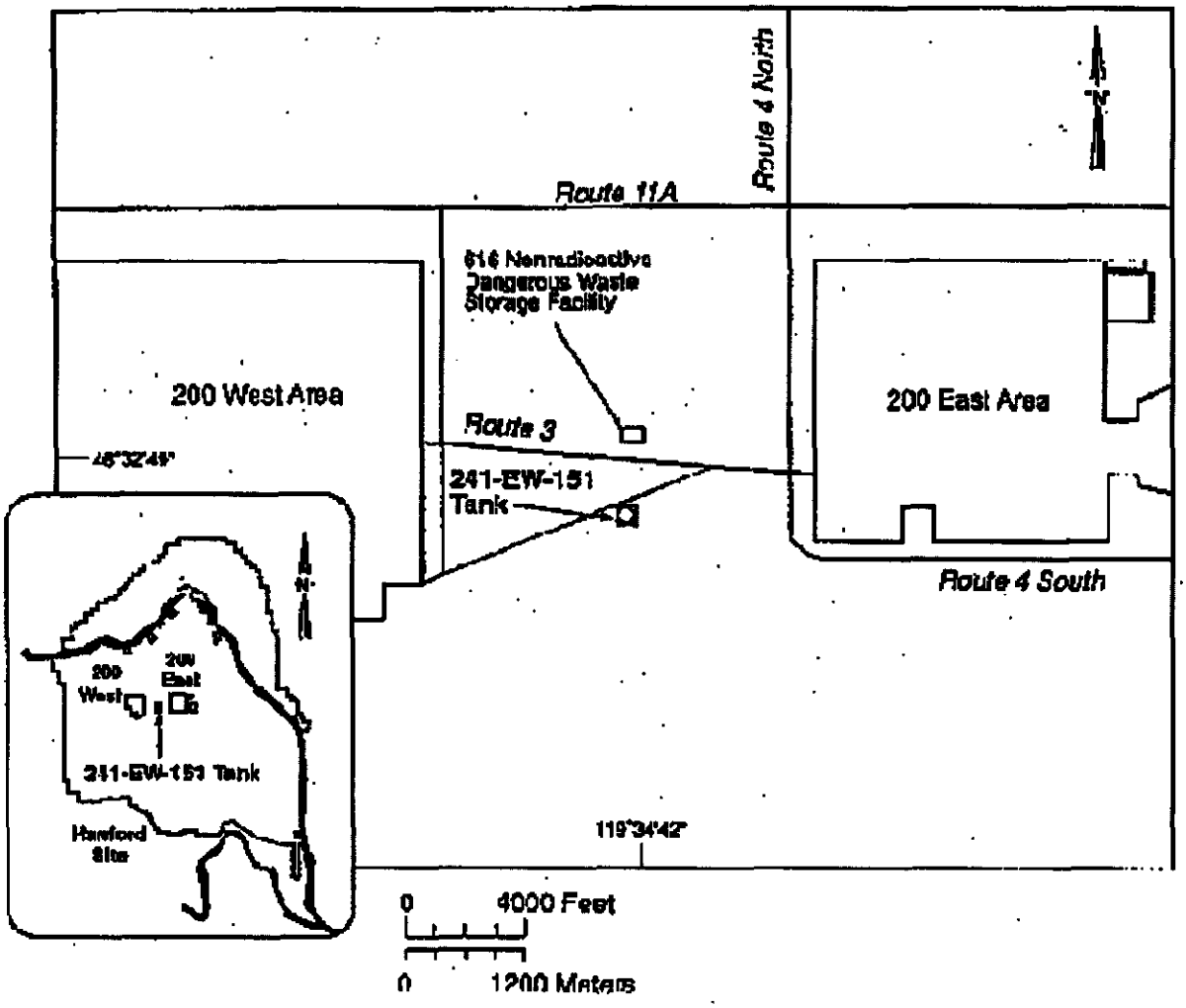
H96070161.27a

241-EW-151 TANK
(200 AREA EAST-WEST VENT STATION)



39208044.2

241-EW-151 Tank
(200 Area East-West Vent Station)
Site Plan



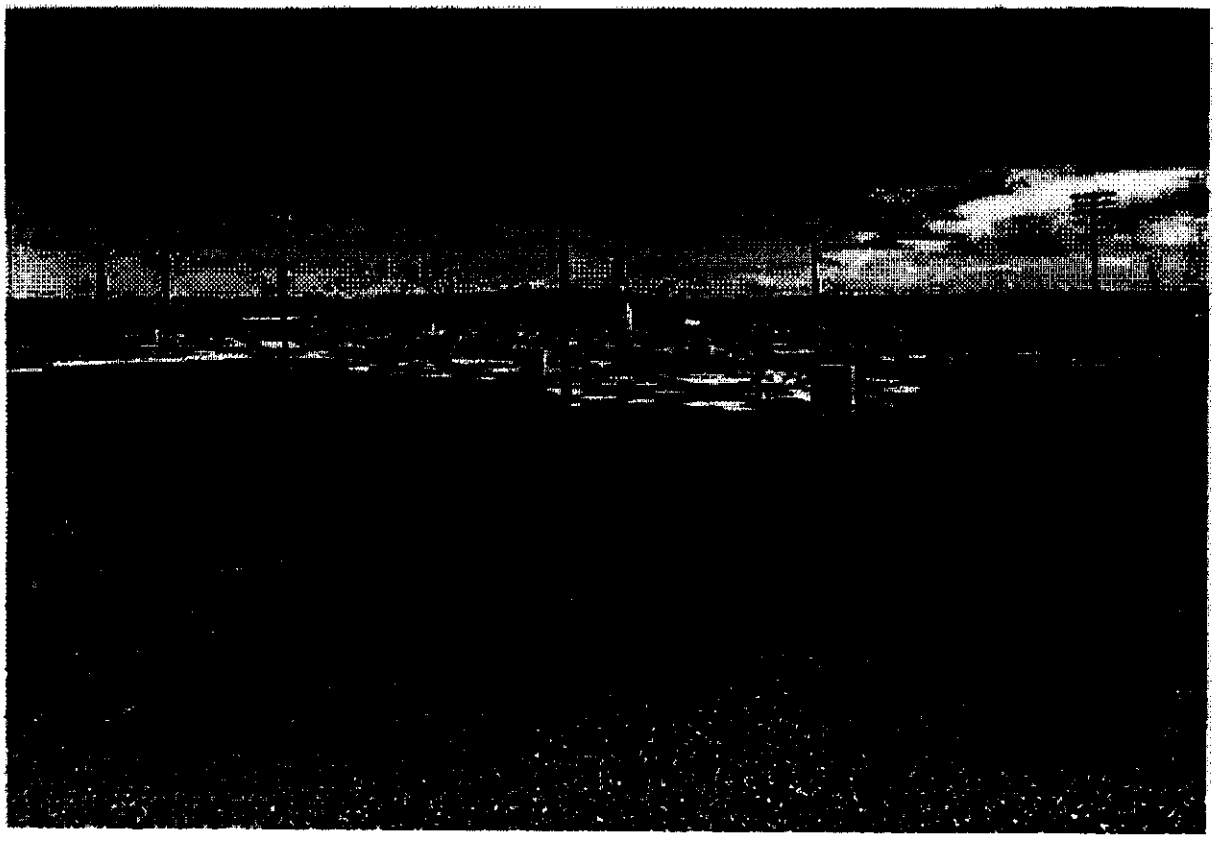
H96070161.33

241-AN DOUBLE-SHELL TANKS

46°33'23"
119°31'01"

96080579-24CN
(PHOTO TAKEN 1996)

241-AP DOUBLE-SHELL TANKS



46°33'04"
119°30'52"

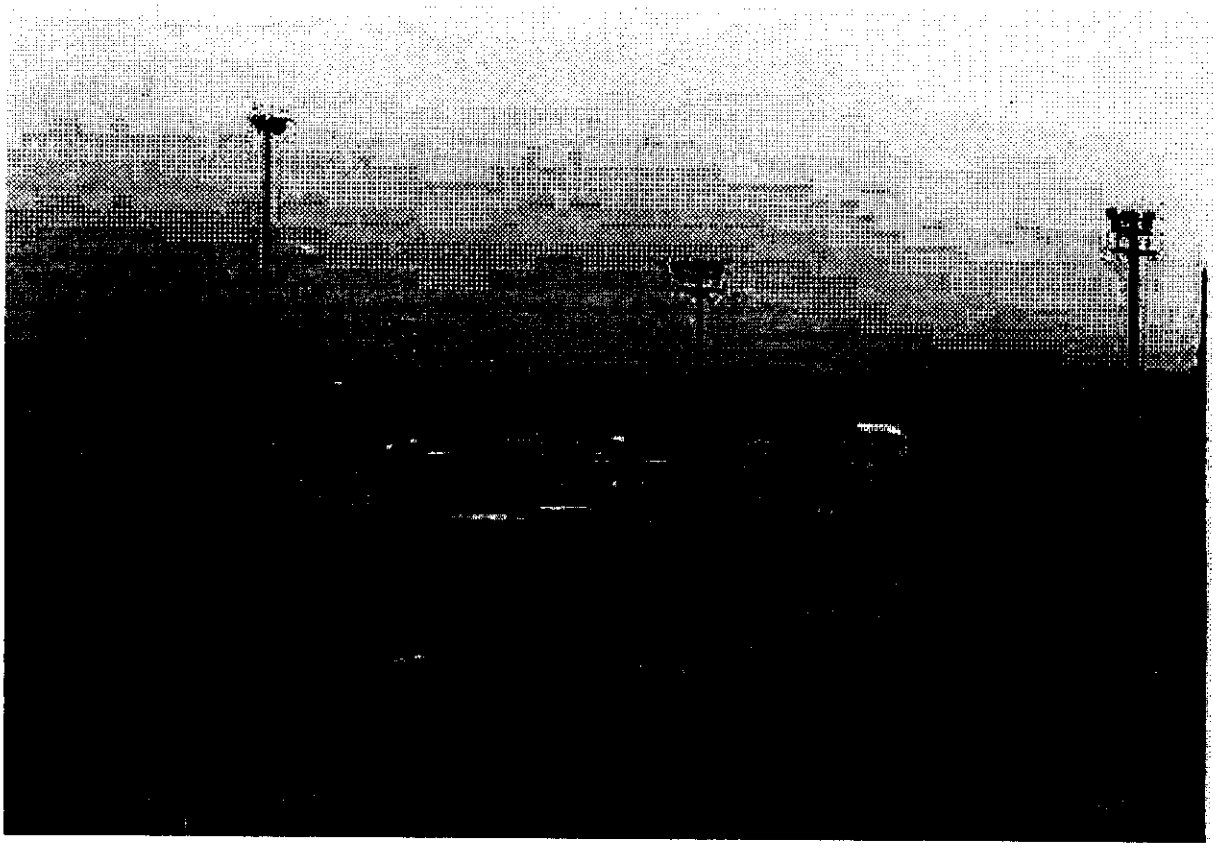
8704135-12CN
(PHOTO TAKEN 1987)

241-AW DOUBLE-SHELL TANKS

46°33'04"
119°31'03"

8704135-11CN
(PHOTO TAKEN 1987)

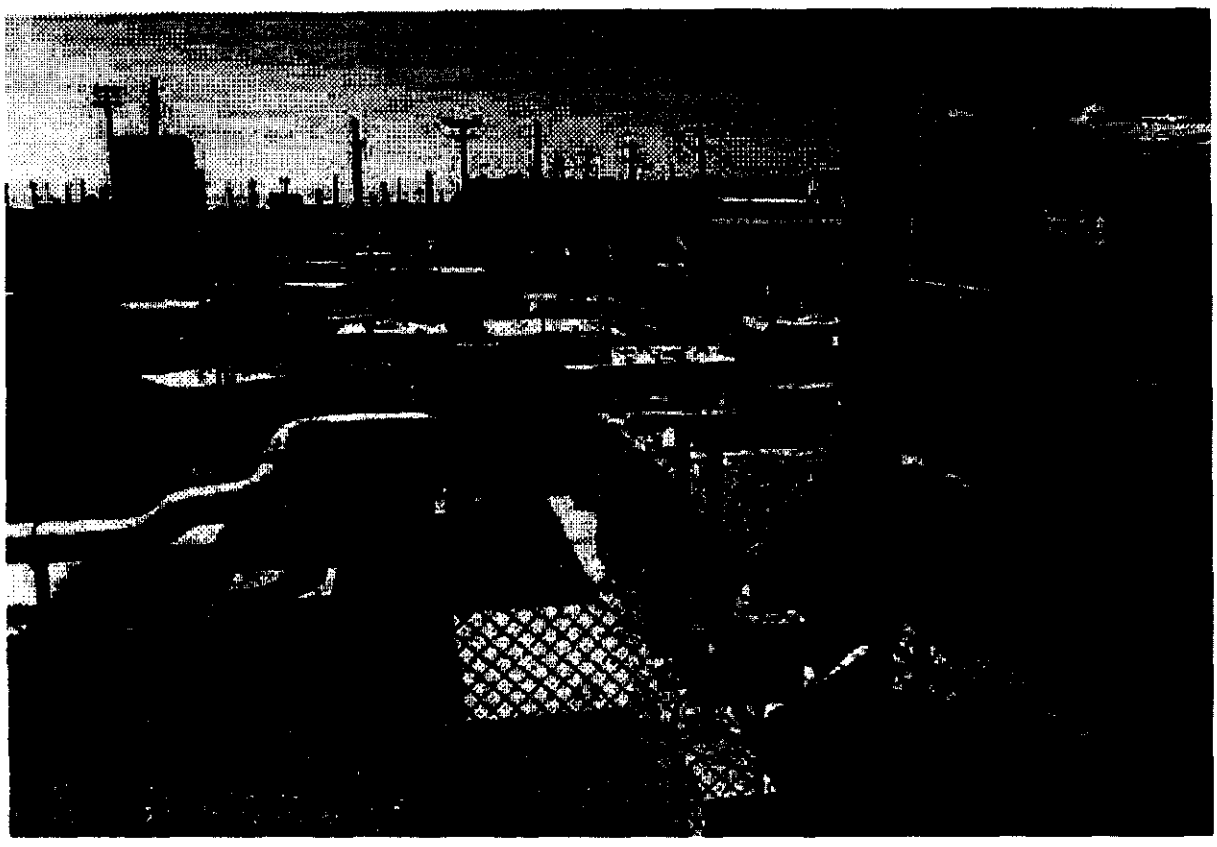
241-SY DOUBLE-SHELL TANKS



46°32'25"
119°37'41"

96080579-1CN
(PHOTO TAKEN 1996)

241-AY AGING WASTE DOUBLE-SHELL TANKS



46°33'15"
119°31'05"

8704135-10CN
(PHOTO TAKEN 1987)

241-AZ AGING WASTE DOUBLE-SHELL TANKS

46°33'20"
119°31'00"

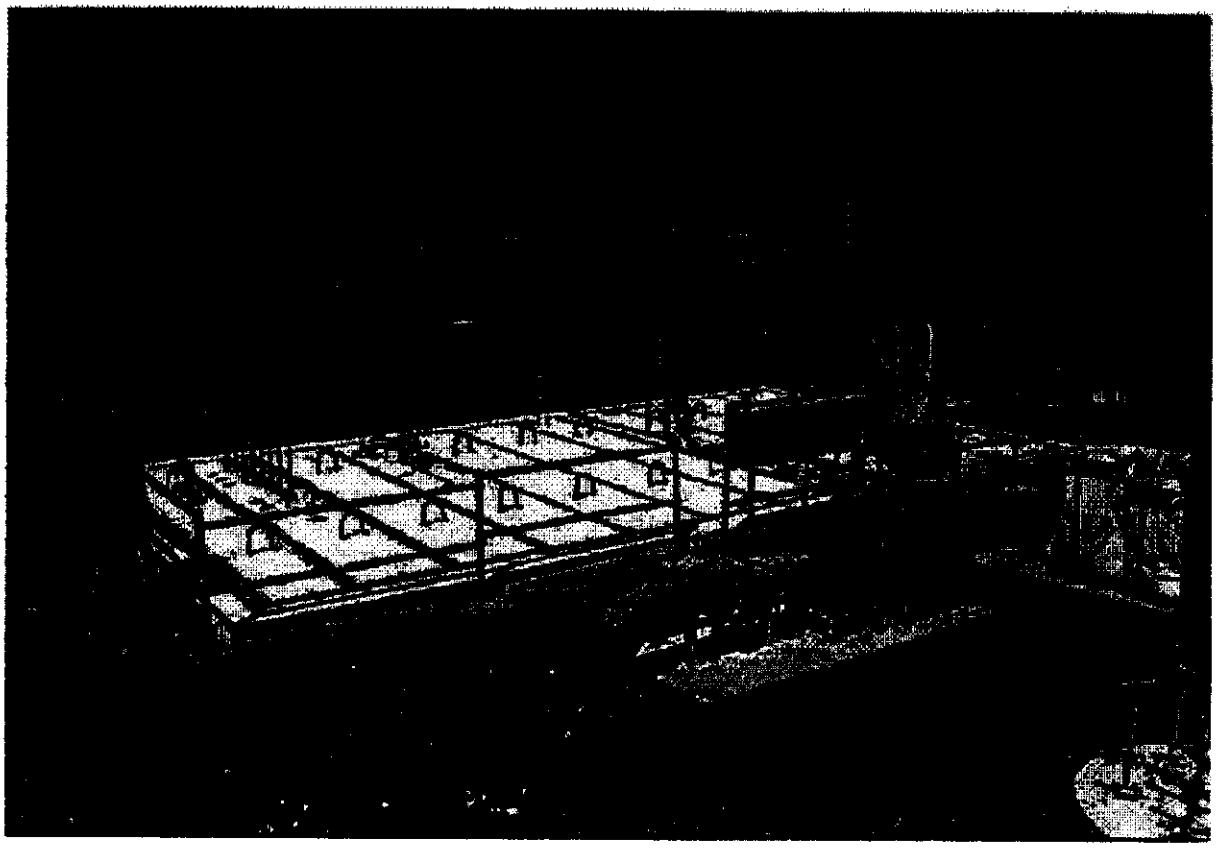
96020361-17CN
(PHOTO TAKEN 1996)

241-EW-151 TANK

46°32'49"
119°34'52"

8704433-17CN
(PHOTO TAKEN 1987)

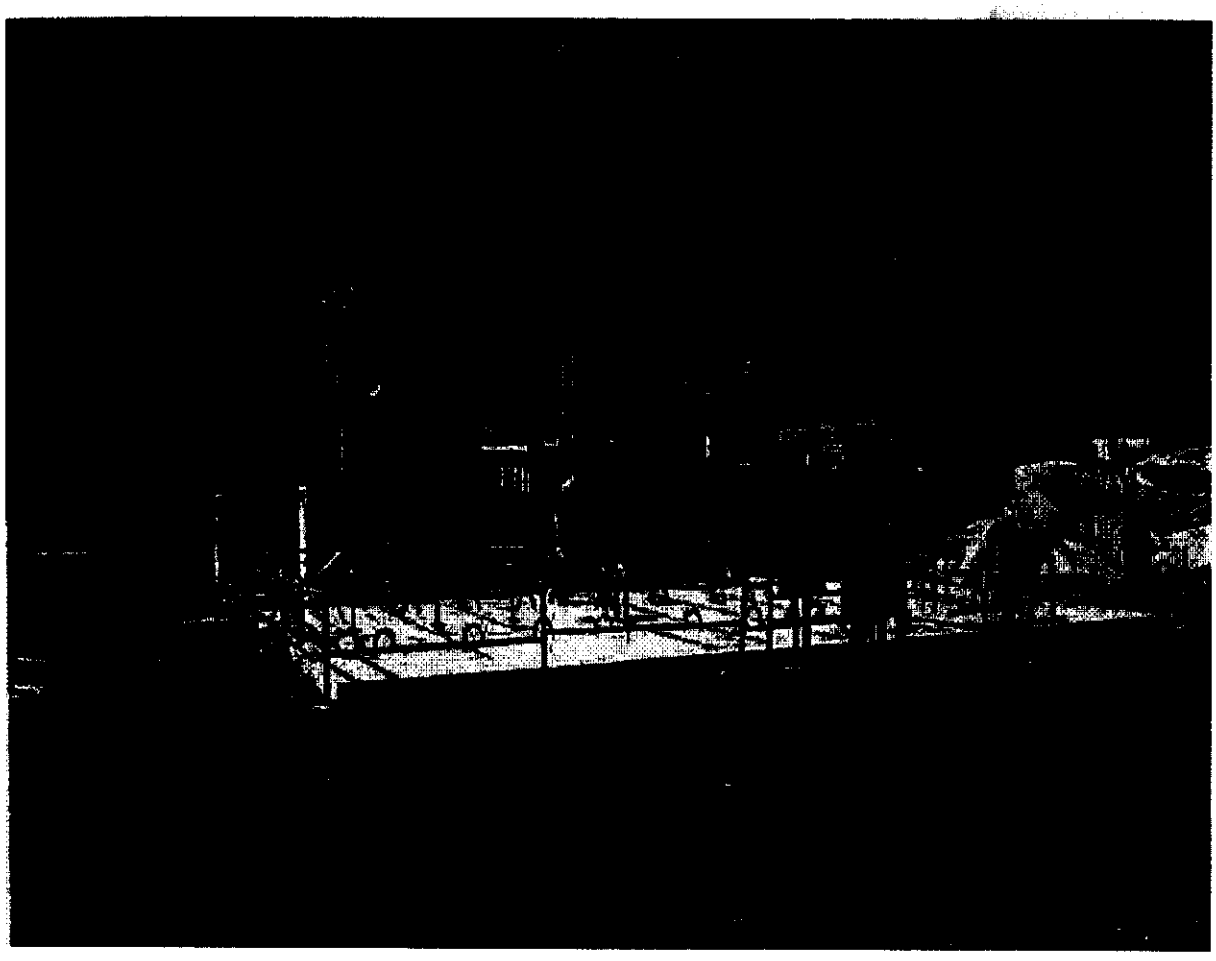
244-BX DOUBLE-CONTAINED RECEIVER TANK



46°33'52"
119°32'19"

8704135-18CN
(PHOTO TAKEN 1987)

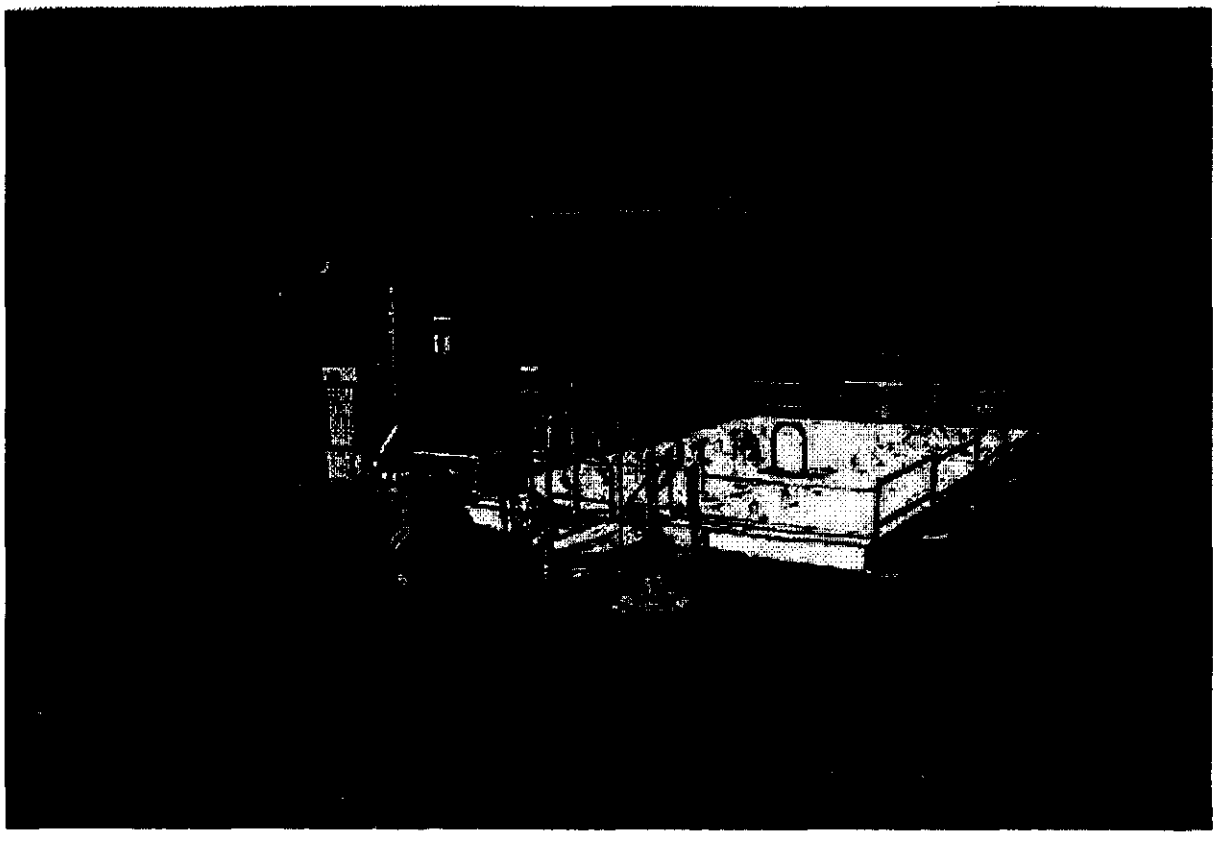
244-TX DOUBLE-CONTAINED RECEIVER TANK



46°33'24"
119°37'45"

8704433-7CN
(PHOTO TAKEN 1987)

244-U DOUBLE-CONTAINED RECEIVER TANK



46°32'46"
119°37'45"

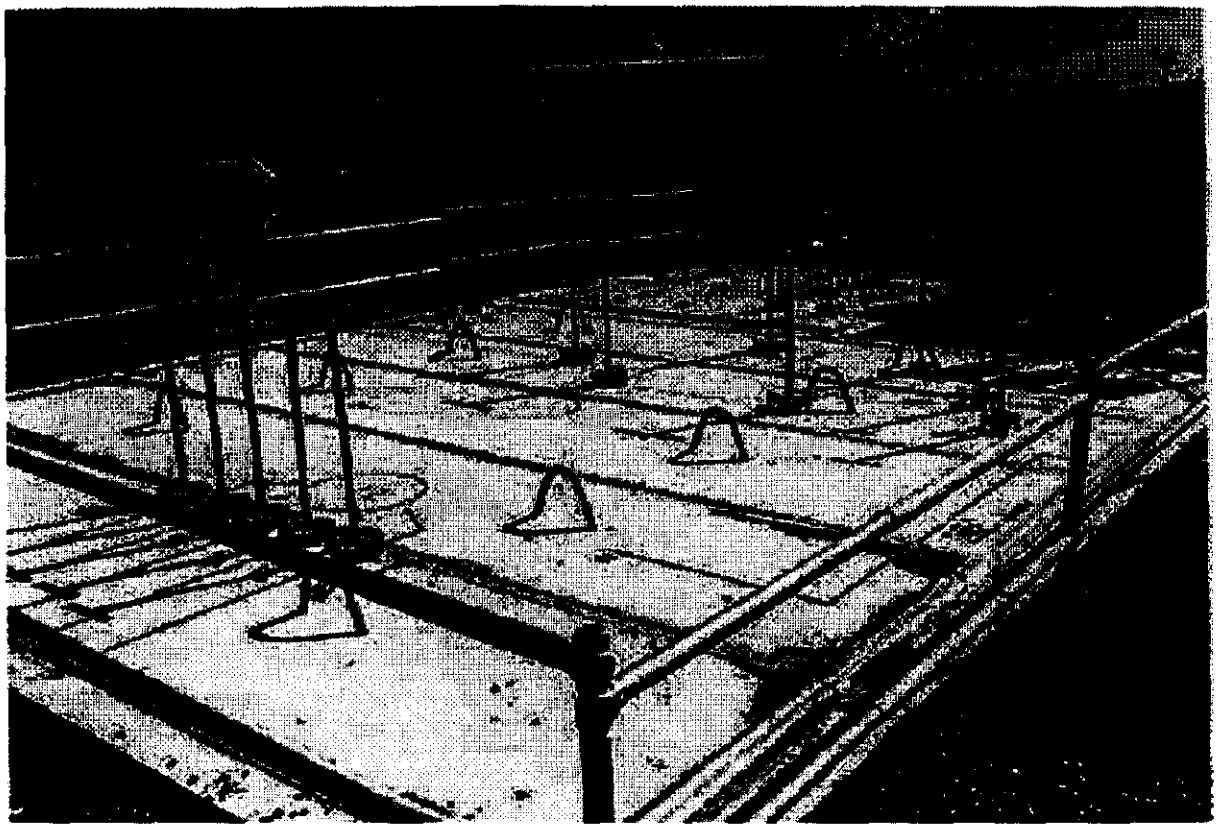
8704433-4CN
(PHOTO TAKEN 1987)

244-A DOUBLE-CONTAINED RECEIVER TANK

46°33'19"
119°31'14"

8704433-16
(PHOTO TAKEN 1987)

244-S DOUBLE-CONTAINED RECEIVER TANK



46°32'21"
119°37'42"

8704433-2CN
(PHOTO TAKEN 1987)

DOE/RL-88-21
Double-Shell Tank System
Rev. 10, 12/21/99

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
		Pending Approval

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

PROCESS DESIGN CAPACITY - For each code, enter the amount, and 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	PROC. CODE	APPROPRIATE UNITS OF PROCESS MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. CODE	APPROPRIATE UNITS OF PROCESS 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)	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 on 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	B
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Hexone Storage and Treatment Facility
Rev. 3, 6/30/94

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: WA789000896 7

FOR OFFICIAL USE ONLY

APPLICATION APPROVED	DATE RECEIVED *(mo., day, & yr.)*	COMMENTS
		Pending Approval

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
01	01	1952

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

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

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B1, enter the code from the list of unit of measure codes below that best describes the unit of measure used. Only the unit of measure codes that are listed below should be used.

PROCESS	CODE	CHECK APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	CODE	CHECK 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 OR GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal, biological, or other treatment processes not listed above in tanks, surface impoundments, or incinerators. Describe the processes in the space provided on Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
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			

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	ONE PER HOUR	D	HECTARE-METER	B
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	O
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Central Waste Complex
Rev. 4, 9/26/96

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

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. The lines are provided for entering codes. If more lines are needed, enter the codes 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 IIIC).*

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 listed below should be used.

PROCESS	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. 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 OR 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)	OTHER (Use for physical, chemical, thermal, biological, or other treatment processes not listed above in tanks, surface impoundments, or incinerators. Describe the processes in the space provided in Section IIIC)	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	B
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	H
GALLONS PER DAY	U	LITERS PER HOUR	H		

EXAMPLE FOR COMPLETING SECTION III (shown in the 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	500	G	
X-2	T03	22	E	
1	S01	22,710,000	L	
2	T04	45,420	V	
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.

S01, T04

The Central Waste Complex (CWC) began waste management operations in August of 1988. This unit consists of multiple storage units for mixed waste and inspection, verification, sampling, and repackaging of mixed waste. Mixed waste that could be managed includes low-level waste (LLW) and transuranic waste (TRU). Mixed waste could be stored temporarily on the Mixed Waste Storage Pad while awaiting transfer until storage capacity becomes available in the Mixed Waste Storage units. The mixed waste accepted for storage is managed in Mixed Waste storage units comprised of compliant storage structures. Waste that has a less than a 38°C (100°F) flash point (ignitable) is stored in the Low-Flash-Point Storage units. Alkali metals are stored in Alkali Metal Storage Modules. The storage design capacity for all the mixed waste storage units at the CWC is 22,710,000 liters (5,999,300 gallons). Treatment includes the absorption and solidification of free liquids, and the neutralization of corrosive materials. The maximum treatment design capacity at the CWC is 45,420 liters (11,999 gallons) per day.

IV. DESCRIPTION OF DANGEROUS WASTES

A. DANGEROUS WASTE NO. - Enter the dangerous waste number from chapter 173-303 WAC for each listed dangerous waste. Use the [illegible] dangerous waste numbers in chapter 173-303 WAC or the WDOE publication [illegible] to describe the dangerous waste [illegible]

B. ESTIMATED ANNUAL QUANTITY OF WASTE - For each waste entered in column A, enter the quantity of that waste to be treated, stored, or disposed of at the facility [illegible]

C. UNIT OF MEASURE - For each quantity entered in column B, enter the unit of measure code. Units of measure which may be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
GALLONS	G	METRIC TONS	M

X (CODE) - Enter the appropriate unit of measure (English or Metric) in which the quantity of waste will be stored, treated, and/or disposed of at the facility.

D. PROCESSES

1. PROCESS CODES

Listed dangerous waste. For each listed dangerous waste entered in column A, select the code(s) from the list of processes on the container in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

Unlisted dangerous waste. For each unlisted dangerous waste entered in Column A, select the process(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous waste that is described on the same line of this section.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "00" in the unused right hand field of Item 1/D-D(1); and (3) Enter in the space provided on page 3, 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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the 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 "0" followed with a dash and leave no other entries on that line.

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

EXAMPLE FOR COMPLETING SECTION IV (shown in the numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 400 pounds per year of chrome shavings from 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.	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))
X-1	K054	400	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	D001	4,600	K	S01	T04			Storage-Container/Treatment-Other
2	D002	1,000	K	S01	T04			Storage-Container/Treatment-Other
3	D003		↓	↓	↓			↓
4	D004	300	K	S01	T04			Storage-Container/Treatment-Other
	D005		↓	↓	↓			↓
6	D006		↓	↓	↓			↓
7	D007		↓	↓	↓			↓
8	D008	45,400	K	S01	T04			Storage-Container/Treatment-Other
9	D009	300	K	S01	T04			Storage-Container/Treatment-Other

10	D010		↓	↓	↓			↓
11	D011		↓	↓	↓			↓
12	D012		↓	↓	↓			↓
13	D013		↓	↓	↓			↓
4	D014		↓	↓	↓			↓
15	D015		↓	↓	↓			↓
16	D016		↓	↓	↓			↓
17	D017		↓	↓	↓			↓
18	D018		↓	↓	↓			↓
19	D019		↓	↓	↓			↓
20	D020		↓	↓	↓			↓
21	D021		↓	↓	↓			↓
22	D022		↓	↓	↓			↓
23	D023		↓	↓	↓			↓
24	D024		↓	↓	↓			↓
25	D025		↓	↓	↓			↓
26	D026		↓	↓	↓			↓
27	D027		↓	↓	↓			↓
28	D028		↓	↓	↓			↓
29	D029		↓	↓	↓			↓
30	D030		↓	↓	↓			↓
31	D031		↓	↓	↓			↓
32	D032		↓	↓	↓			↓
33	D033		↓	↓	↓			↓
34	D034		↓	↓	↓			↓
35	D035		↓	↓	↓			↓
36	D036		↓	↓	↓			↓
7	D037		↓	↓	↓			↓
38	D038		↓	↓	↓			↓
39	D039		↓	↓	↓			↓
40	D040		↓	↓	↓			↓
41	D041		↓	↓	↓			↓
42	D042		↓	↓	↓			↓
43	D043		↓	↓	↓			↓
44	WSC2		↓	↓	↓			↓
45	WT01	363,200	K	S01	T04			Storage-Container/Treatment-Other
46	WT02	36,000	K	S01	T04			Storage-Container/Treatment-Other
47	WP01	3,700	K	S01	T04			Storage-Container/Treatment-Other
48	WP02		↓	↓	↓			↓
49	WP03		↓	↓	↓			↓
50	W001	10,000	K	S01	T04			Storage-Container/Treatment-Other
51	F001	3,700	K	S01	T04			Storage-Container/Treatment-Other
52	F002		↓	↓	↓			↓
53	F003		↓	↓	↓			↓
54	F004		↓	↓	↓			↓
55	F005		↓	↓	↓			↓
56	F020		↓	↓	↓			↓
57	F021	300	K	S01	T04			Storage-Container/Treatment-Other
58	F022		↓	↓	↓			↓
59	F023		↓	↓	↓			↓
0	F026		↓	↓	↓			↓
61	F027		↓	↓	↓			↓
62	F028		↓	↓	↓			↓
63	F039		↓	↓	↓			↓
64	U001		↓	↓	↓			↓

65	U002		↓	↓	↓			↓
66	U003		↓	↓	↓			↓
67	U004		↓	↓	↓			↓
68	U005		↓	↓	↓			↓
69	U006		↓	↓	↓			↓
70	U007		↓	↓	↓			↓
71	U008		↓	↓	↓			↓
72	U009		↓	↓	↓			↓
73	U010		↓	↓	↓			↓
74	U011		↓	↓	↓			↓
75	U012		↓	↓	↓			↓
76	U014		↓	↓	↓			↓
77	U015		↓	↓	↓			↓
78	U016		↓	↓	↓			↓
79	U017		↓	↓	↓			↓
80	U018		↓	↓	↓			↓
81	U019		↓	↓	↓			↓
82	U020		↓	↓	↓			↓
83	U021		↓	↓	↓			↓
84	U022		↓	↓	↓			↓
85	U023		↓	↓	↓			↓
86	U024		↓	↓	↓			↓
87	U025		↓	↓	↓			↓
88	U026		↓	↓	↓			↓
89	U027		↓	↓	↓			↓
90	U028		↓	↓	↓			↓
91	U029		↓	↓	↓			↓
92	U030		↓	↓	↓			↓
93	U031		↓	↓	↓			↓
94	U032		↓	↓	↓			↓
95	U033		↓	↓	↓			↓
96	U034		↓	↓	↓			↓
97	U035		↓	↓	↓			↓
98	U036		↓	↓	↓			↓
99	U037		↓	↓	↓			↓
100	U038		↓	↓	↓			↓
101	U039		↓	↓	↓			↓
102	U041		↓	↓	↓			↓
103	U042		↓	↓	↓			↓
104	U043		↓	↓	↓			↓
105	U044		↓	↓	↓			↓
106	U045		↓	↓	↓			↓
107	U046		↓	↓	↓			↓
108	U047		↓	↓	↓			↓
109	U048		↓	↓	↓			↓
110	U049		↓	↓	↓			↓
111	U050		↓	↓	↓			↓
112	U051		↓	↓	↓			↓
113	U052		↓	↓	↓			↓
114	U053		↓	↓	↓			↓
115	U055		↓	↓	↓			↓
116	U056		↓	↓	↓			↓
117	U057		↓	↓	↓			↓
118	U058		↓	↓	↓			↓
119	U059		↓	↓	↓			↓

120	U060		↓	↓	↓			↓
121	U061		↓	↓	↓			↓
122	U062		↓	↓	↓			↓
123	U063		↓	↓	↓			↓
124	U064		↓	↓	↓			↓
125	U066		↓	↓	↓			↓
126	U067		↓	↓	↓			↓
127	U068		↓	↓	↓			↓
128	U069		↓	↓	↓			↓
129	U070		↓	↓	↓			↓
130	U071		↓	↓	↓			↓
131	U072		↓	↓	↓			↓
132	U073		↓	↓	↓			↓
133	U074		↓	↓	↓			↓
134	U075		↓	↓	↓			↓
135	U076		↓	↓	↓			↓
136	U077		↓	↓	↓			↓
137	U078		↓	↓	↓			↓
138	U079		↓	↓	↓			↓
139	U080		↓	↓	↓			↓
140	U081		↓	↓	↓			↓
141	U082		↓	↓	↓			↓
142	U083		↓	↓	↓			↓
143	U084		↓	↓	↓			↓
144	U085		↓	↓	↓			↓
145	U086		↓	↓	↓			↓
146	U087		↓	↓	↓			↓
147	U088		↓	↓	↓			↓
148	U089		↓	↓	↓			↓
149	U090		↓	↓	↓			↓
150	U091		↓	↓	↓			↓
151	U092		↓	↓	↓			↓
152	U093		↓	↓	↓			↓
153	U094		↓	↓	↓			↓
154	U095		↓	↓	↓			↓
155	U096		↓	↓	↓			↓
156	U097		↓	↓	↓			↓
157	U098		↓	↓	↓			↓
158	U099		↓	↓	↓			↓
159	U101		↓	↓	↓			↓
160	U102		↓	↓	↓			↓
161	U103		↓	↓	↓			↓
162	U105		↓	↓	↓			↓
163	U106		↓	↓	↓			↓
164	U107		↓	↓	↓			↓
165	U108		↓	↓	↓			↓
166	U109		↓	↓	↓			↓
167	U110		↓	↓	↓			↓
168	U111		↓	↓	↓			↓
169	U112		↓	↓	↓			↓
170	U113		↓	↓	↓			↓
171	U114		↓	↓	↓			↓
172	U115		↓	↓	↓			↓
173	U116		↓	↓	↓			↓
174	U117		↓	↓	↓			↓

175	U118		↓	↓	↓			↓
176	U119		↓	↓	↓			↓
177	U120		↓	↓	↓			↓
178	U121		↓	↓	↓			↓
179	U122		↓	↓	↓			↓
180	U123		↓	↓	↓			↓
181	U124		↓	↓	↓			↓
182	U125		↓	↓	↓			↓
183	U126		↓	↓	↓			↓
184	U127		↓	↓	↓			↓
185	U128		↓	↓	↓			↓
186	U129		↓	↓	↓			↓
187	U130		↓	↓	↓			↓
188	U131		↓	↓	↓			↓
189	U132		↓	↓	↓			↓
190	U133		↓	↓	↓			↓
191	U134		↓	↓	↓			↓
192	U135		↓	↓	↓			↓
193	U136		↓	↓	↓			↓
194	U137		↓	↓	↓			↓
195	U138		↓	↓	↓			↓
196	U139		↓	↓	↓			↓
197	U140		↓	↓	↓			↓
198	U141		↓	↓	↓			↓
199	U142		↓	↓	↓			↓
200	U143		↓	↓	↓			↓
201	U144		↓	↓	↓			↓
202	U145		↓	↓	↓			↓
203	U146		↓	↓	↓			↓
204	U147		↓	↓	↓			↓
205	U148		↓	↓	↓			↓
206	U149		↓	↓	↓			↓
207	U150		↓	↓	↓			↓
208	U151		↓	↓	↓			↓
209	U152		↓	↓	↓			↓
210	U153		↓	↓	↓			↓
211	U154		↓	↓	↓			↓
212	U155		↓	↓	↓			↓
213	U156		↓	↓	↓			↓
214	U157		↓	↓	↓			↓
215	U158		↓	↓	↓			↓
216	U159		↓	↓	↓			↓
217	U160		↓	↓	↓			↓
218	U161		↓	↓	↓			↓
219	U162		↓	↓	↓			↓
220	U163		↓	↓	↓			↓
221	U164		↓	↓	↓			↓
222	U165		↓	↓	↓			↓
223	U166		↓	↓	↓			↓
224	U167		↓	↓	↓			↓
225	U168		↓	↓	↓			↓
226	U169		↓	↓	↓			↓
227	U170		↓	↓	↓			↓
228	U171		↓	↓	↓			↓
229	U172		↓	↓	↓			↓

230	U173		↓	↓	↓			↓
231	U174		↓	↓	↓			↓
232	U175		↓	↓	↓			↓
233	U176		↓	↓	↓			↓
4	U177		↓	↓	↓			↓
35	U178		↓	↓	↓			↓
236	U179		↓	↓	↓			↓
237	U180		↓	↓	↓			↓
238	U181		↓	↓	↓			↓
239	U182		↓	↓	↓			↓
240	U183		↓	↓	↓			↓
241	U184		↓	↓	↓			↓
242	U185		↓	↓	↓			↓
243	U186		↓	↓	↓			↓
244	U187		↓	↓	↓			↓
245	U188		↓	↓	↓			↓
246	U189		↓	↓	↓			↓
247	U190		↓	↓	↓			↓
248	U191		↓	↓	↓			↓
249	U192		↓	↓	↓			↓
250	U193		↓	↓	↓			↓
251	U194		↓	↓	↓			↓
252	U196		↓	↓	↓			↓
253	U197		↓	↓	↓			↓
254	U200		↓	↓	↓			↓
255	U201		↓	↓	↓			↓
256	U202		↓	↓	↓			↓
7	U203		↓	↓	↓			↓
258	U204		↓	↓	↓			↓
259	U205		↓	↓	↓			↓
260	U206		↓	↓	↓			↓
261	U207		↓	↓	↓			↓
262	U208		↓	↓	↓			↓
263	U209		↓	↓	↓			↓
264	U210		↓	↓	↓			↓
265	U211		↓	↓	↓			↓
266	U212		↓	↓	↓			↓
267	U213		↓	↓	↓			↓
268	U214		↓	↓	↓			↓
269	U215		↓	↓	↓			↓
270	U216		↓	↓	↓			↓
271	U217		↓	↓	↓			↓
272	U218		↓	↓	↓			↓
273	U219		↓	↓	↓			↓
274	U220		↓	↓	↓			↓
275	U221		↓	↓	↓			↓
276	U222		↓	↓	↓			↓
277	U223		↓	↓	↓			↓
278	U225		↓	↓	↓			↓
279	U226		↓	↓	↓			↓
0	U227		↓	↓	↓			↓
281	U228		↓	↓	↓			↓
282	U232		↓	↓	↓			↓
283	U233		↓	↓	↓			↓
284	U234		↓	↓	↓			↓

285	U235		↓	↓	↓			↓
286	U236		↓	↓	↓			↓
287	U237		↓	↓	↓			↓
288	U238		↓	↓	↓			↓
289	U239		↓	↓	↓			↓
290	U240		↓	↓	↓			↓
291	U243		↓	↓	↓			↓
292	U244		↓	↓	↓			↓
293	U246		↓	↓	↓			↓
294	U247		↓	↓	↓			↓
295	U248		↓	↓	↓			↓
296	U249		↓	↓	↓			↓
297	U328		↓	↓	↓			↓
298	U353		↓	↓	↓			↓
299	U359		↓	↓	↓			↓
300	P001		↓	↓	↓			↓
301	P002		↓	↓	↓			↓
302	P003		↓	↓	↓			↓
303	P004		↓	↓	↓			↓
304	P005		↓	↓	↓			↓
305	P006		↓	↓	↓			↓
306	P007		↓	↓	↓			↓
307	P008		↓	↓	↓			↓
308	P009		↓	↓	↓			↓
309	P010		↓	↓	↓			↓
310	P011		↓	↓	↓			↓
311	P012		↓	↓	↓			↓
312	P013		↓	↓	↓			↓
313	P014		↓	↓	↓			↓
314	P015		↓	↓	↓			↓
315	P016		↓	↓	↓			↓
316	P017		↓	↓	↓			↓
317	P018		↓	↓	↓			↓
318	P020		↓	↓	↓			↓
319	P021		↓	↓	↓			↓
320	P022		↓	↓	↓			↓
321	P023		↓	↓	↓			↓
322	P024		↓	↓	↓			↓
323	P026		↓	↓	↓			↓
324	P027		↓	↓	↓			↓
325	P028		↓	↓	↓			↓
326	P029		↓	↓	↓			↓
327	P030		↓	↓	↓			↓
328	P031		↓	↓	↓			↓
329	P033		↓	↓	↓			↓
330	P034		↓	↓	↓			↓
331	P036		↓	↓	↓			↓
332	P037		↓	↓	↓			↓
333	P038		↓	↓	↓			↓
334	P039		↓	↓	↓			↓
335	P040		↓	↓	↓			↓
336	P041		↓	↓	↓			↓
337	P042		↓	↓	↓			↓
338	P043		↓	↓	↓			↓
339	P044		↓	↓	↓			↓

340	P045		↓	↓	↓			↓
341	P046		↓	↓	↓			↓
342	P047		↓	↓	↓			↓
343	P048		↓	↓	↓			↓
4	P049		↓	↓	↓			↓
45	P050		↓	↓	↓			↓
346	P051		↓	↓	↓			↓
347	P054		↓	↓	↓			↓
348	P056		↓	↓	↓			↓
349	P057		↓	↓	↓			↓
350	P058		↓	↓	↓			↓
351	P059		↓	↓	↓			↓
352	P060		↓	↓	↓			↓
353	P062		↓	↓	↓			↓
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357	P066		↓	↓	↓			↓
358	P067		↓	↓	↓			↓
359	P068		↓	↓	↓			↓
360	P069		↓	↓	↓			↓
361	P070		↓	↓	↓			↓
362	P071		↓	↓	↓			↓
363	P072		↓	↓	↓			↓
364	P073		↓	↓	↓			↓
365	P074		↓	↓	↓			↓
366	P075		↓	↓	↓			↓
7	P076		↓	↓	↓			↓
368	P077		↓	↓	↓			↓
369	P078		↓	↓	↓			↓
370	P081		↓	↓	↓			↓
371	P082		↓	↓	↓			↓
372	P084		↓	↓	↓			↓
373	P085		↓	↓	↓			↓
374	P087		↓	↓	↓			↓
375	P088		↓	↓	↓			↓
376	P089		↓	↓	↓			↓
377	P092		↓	↓	↓			↓
378	P093		↓	↓	↓			↓
379	P094		↓	↓	↓			↓
380	P095		↓	↓	↓			↓
381	P096		↓	↓	↓			↓
382	P097		↓	↓	↓			↓
383	P098		↓	↓	↓			↓
384	P099		↓	↓	↓			↓
385	P101		↓	↓	↓			↓
386	P102		↓	↓	↓			↓
387	P103		↓	↓	↓			↓
388	P104		↓	↓	↓			↓
389	P105		↓	↓	↓			↓
0	P106		↓	↓	↓			↓
391	P107		↓	↓	↓			↓
392	P108		↓	↓	↓			↓
393	P109		↓	↓	↓			↓
394	P110		↓	↓	↓			↓

395	P111		↓	↓	↓			↓
396	P112		↓	↓	↓			↓
397	P113		↓	↓	↓			↓
398	P114		↓	↓	↓			↓
399	P115		↓	↓	↓			↓
400	P116		↓	↓	↓			↓
401	P118		↓	↓	↓			↓
402	P119		↓	↓	↓			↓
403	P120		↓	↓	↓			↓
404	P121		↓	↓	↓			↓
405	P122		↓	↓	↓			↓
406	P123		↓	↓	↓			Included With Above
407								
408								
409								
410								
411								

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

The mixed waste managed at the CWC includes mixed waste generated from various operations on and off the Hanford Site. Managed waste consists of listed waste, waste from nonspecific sources, characteristic waste, discarded chemical products, state-only waste (extremely hazardous and dangerous waste), and multi-source leachate.

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 *(arial 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)*.

.. 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
John D. Wagner U.S. Department of Energy Richland Operations Office	John D. Wagner	09/26/1996

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.

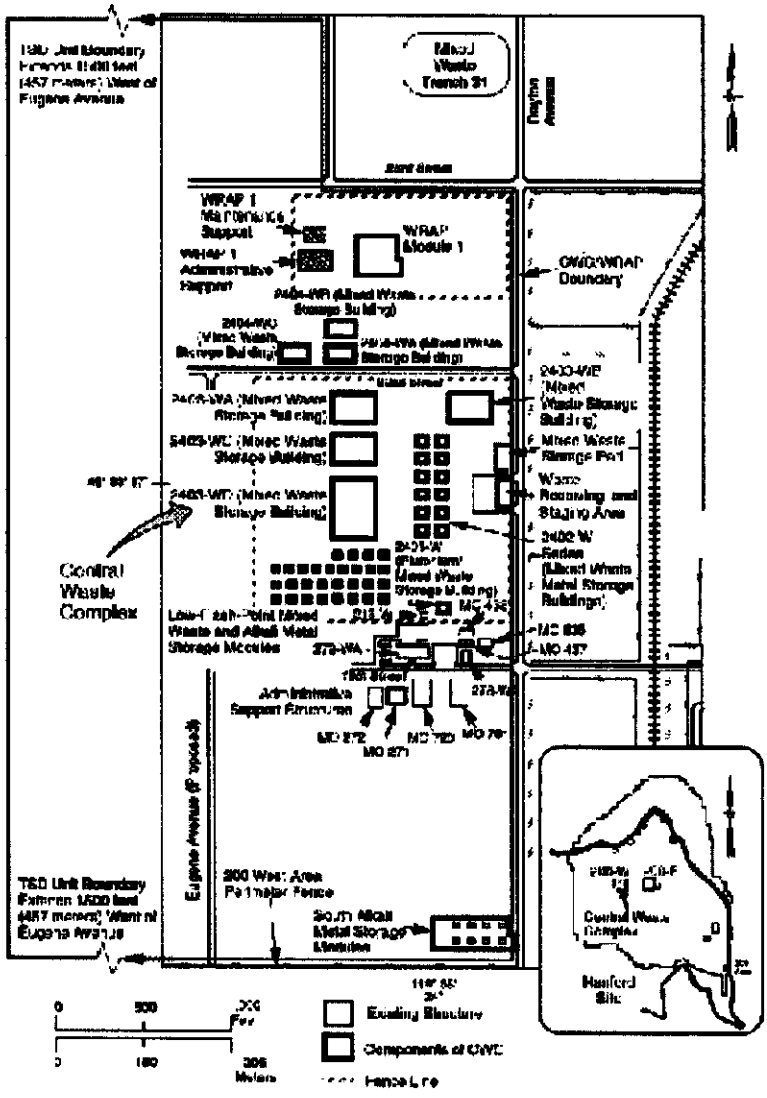
John D. Wagner
Owner/Operator
John D. Wagoner, Manager
U.S. Department of Energy
Richland Operations Office

9/26/96
Date

H.J. Hatch
Co-Operator
H. J. Hatch,
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

9/13/96
Date

Central Waste Complex Site Plan

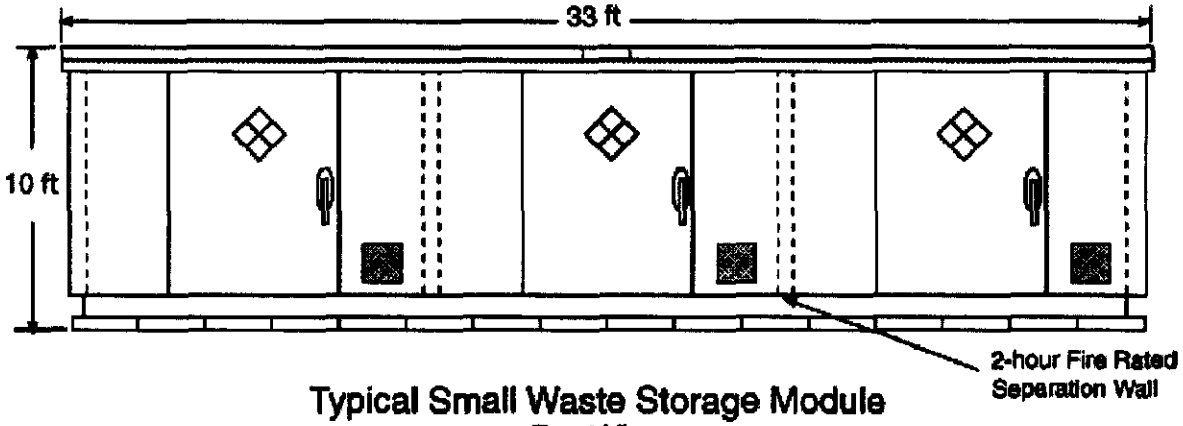


Note: To convert feet to meters, multiply by 0.3048
To convert inches to centimeters, multiply by 2.54

H96070161-29

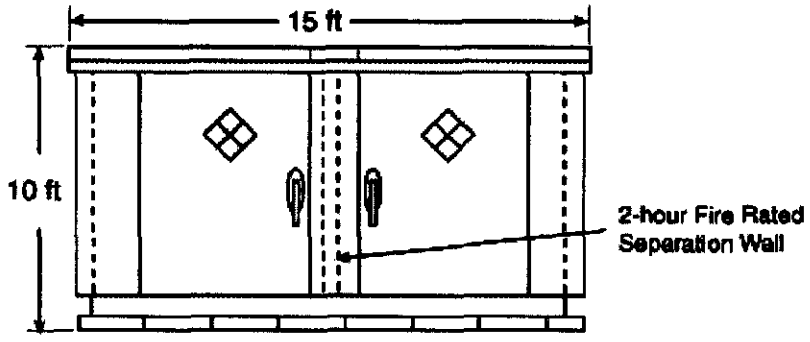
Typical Large and Small Waste Storage Module

Front View



Typical Small Waste Storage Module

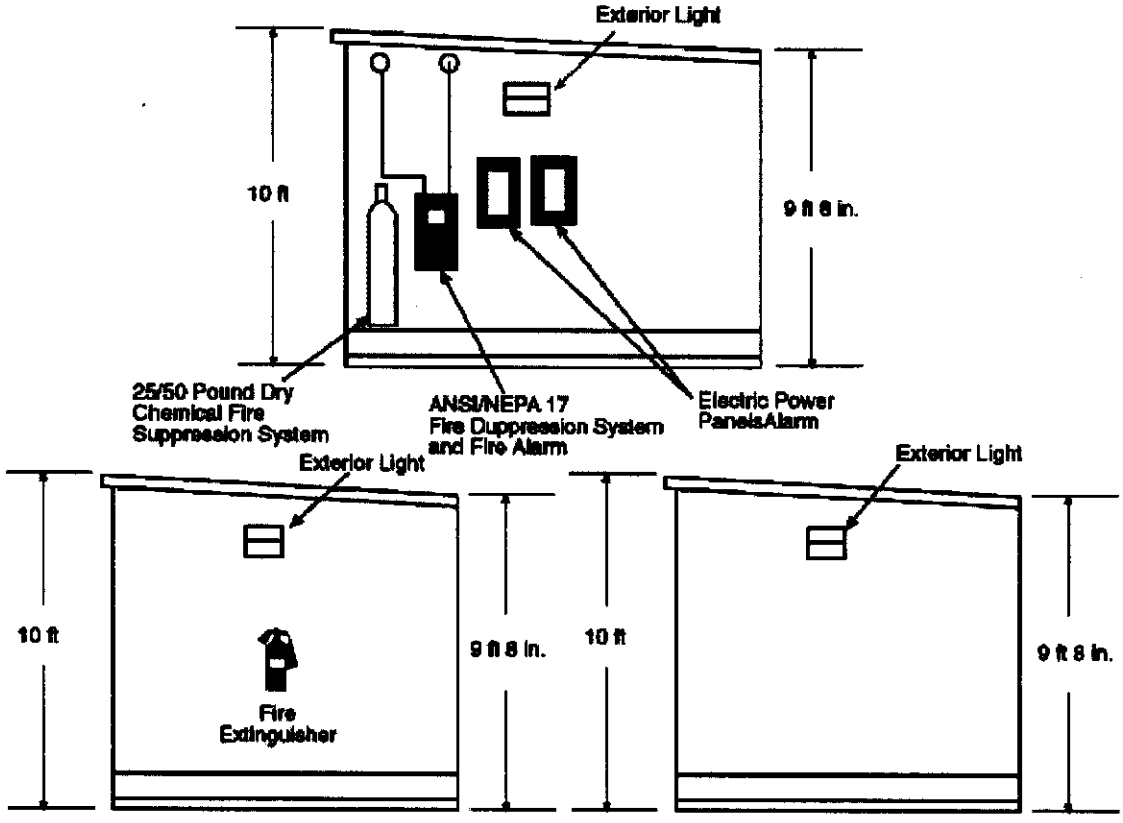
Front View



Metric Conversion: 0.305 meter per foot

39212049-3

Low-Flash Point Mixed Waste and Alkali Metal Waste Storage Module Side View



Note: To convert feet to meters, multiply by 0.3048.

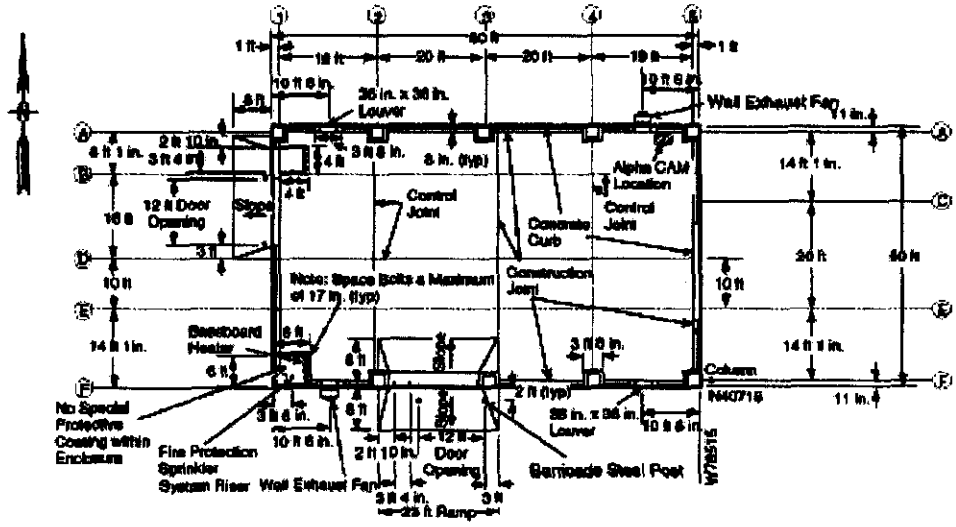
To convert inches to centimeters, multiply by 2.54.

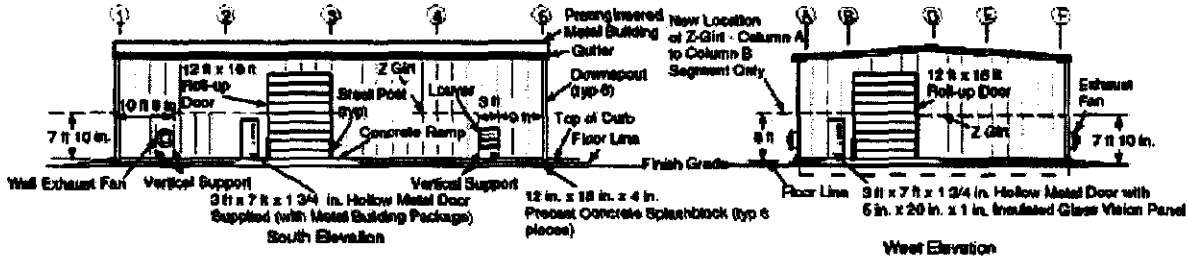
To convert to pounds to kilograms, multiply by 0.45359239.

H96070161-28

2401-W Waste Storage Building

Plan and Elevations





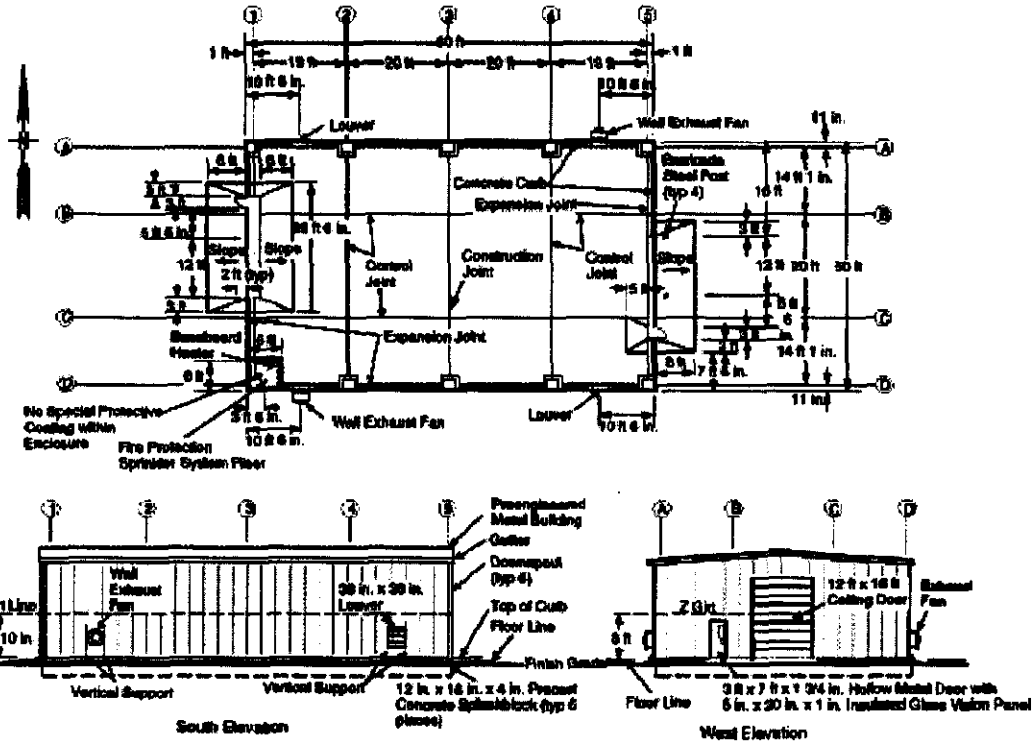
typ = typical.

Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

39304068.6

Typical Radioactive and/or Mixed Waste Storage Buildings (2402-W and 2402-WB through 2402-WL)

Plan and Elevations



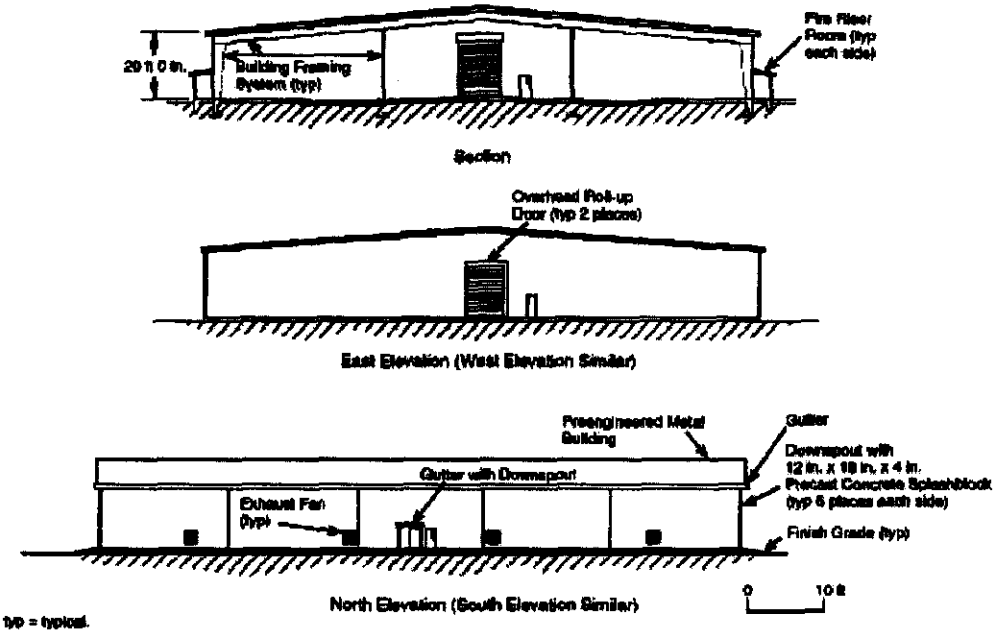
typ = typical

Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

39304068.7

Typical Radioactive and/or Mixed Waste Storage Building (2403-WB through 2403-WC)

Elevation



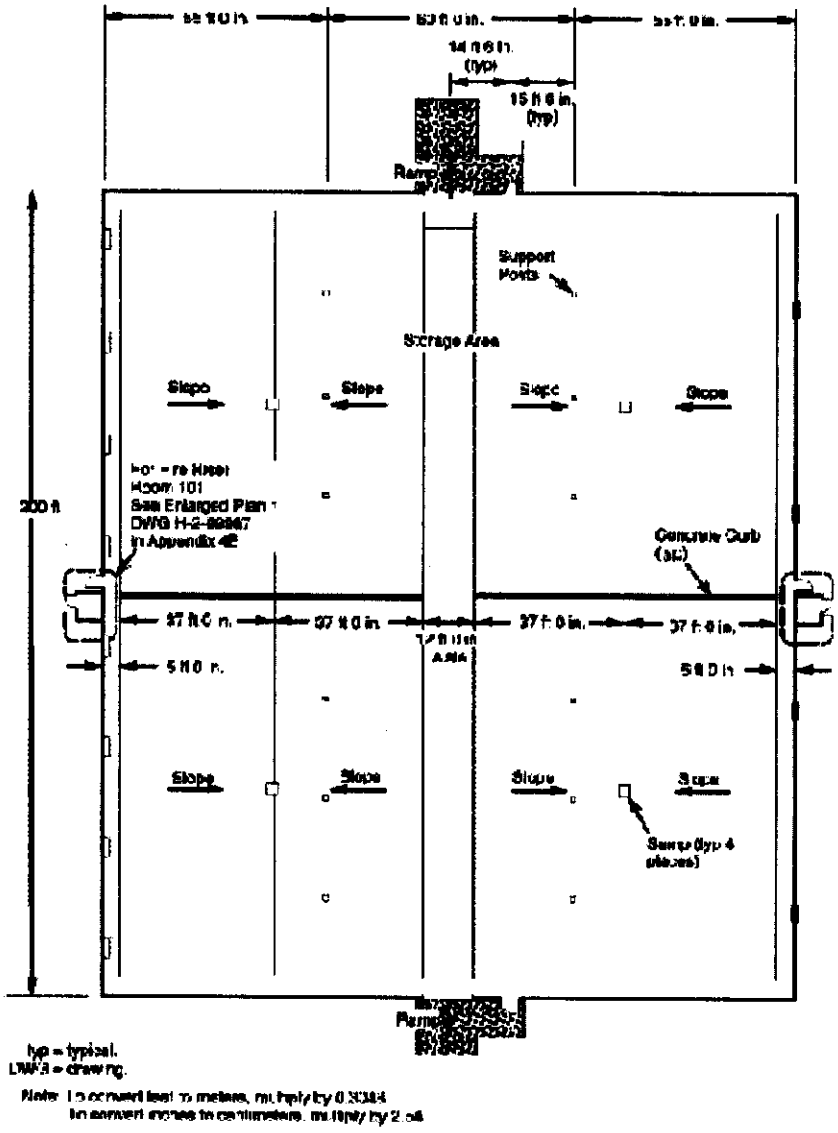
typ = typical.

Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

39304068.8

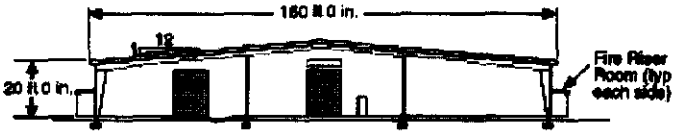
Typical Radioactive and/or Mixed Waste Storage Building (2403-WA, WB, and WC)

Plan



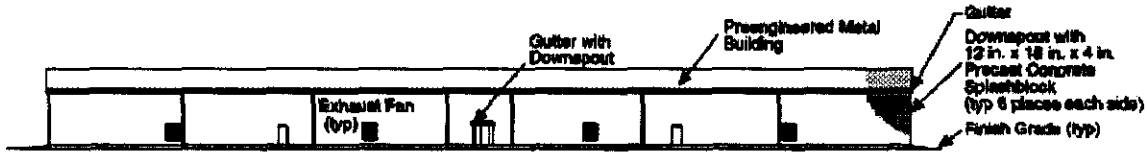
39304068.9

Radioactive and/or Mixed Waste Storage Building (2403-WD)



Section

North Elevation



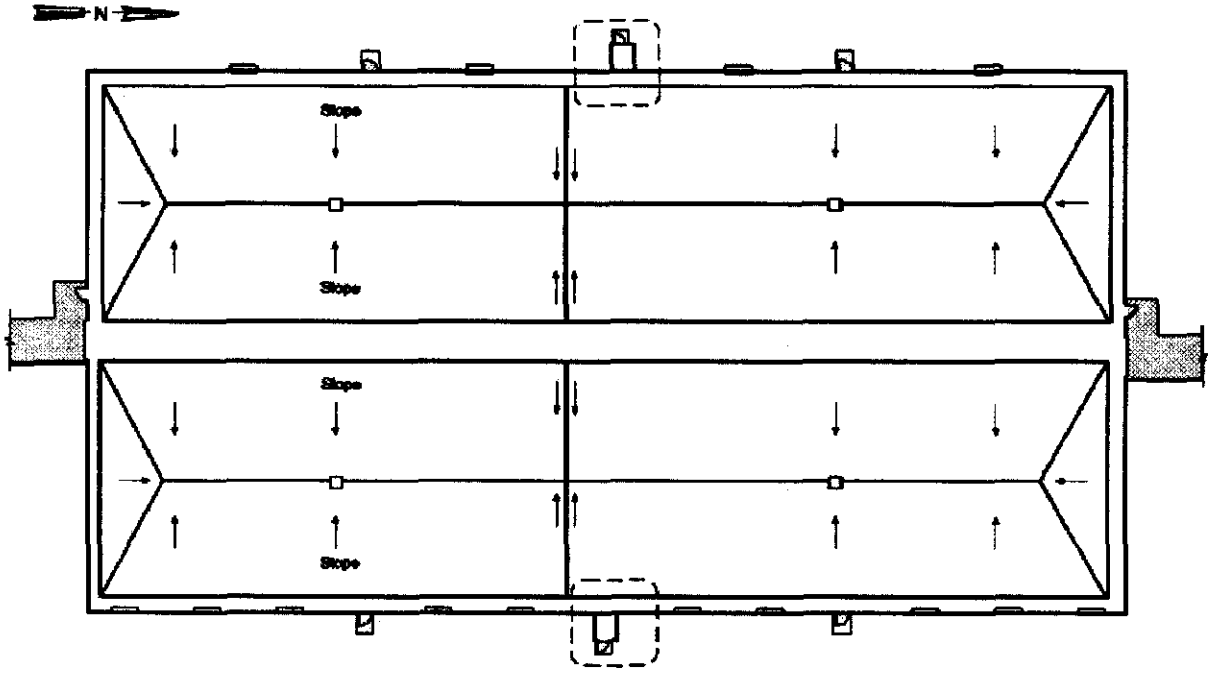
West Elevation

Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

typ = typical.

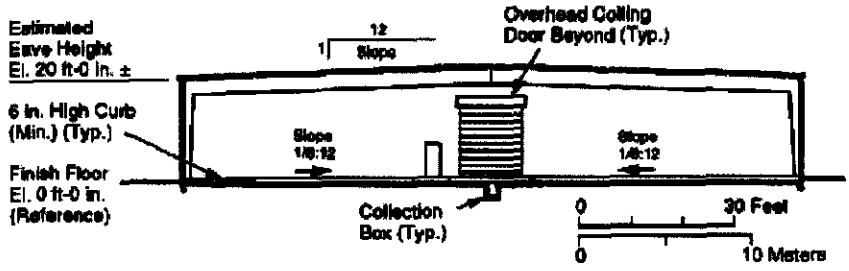
39304068.11

Radioactive and/or Mixed Waste Storage Building (2403-WD)

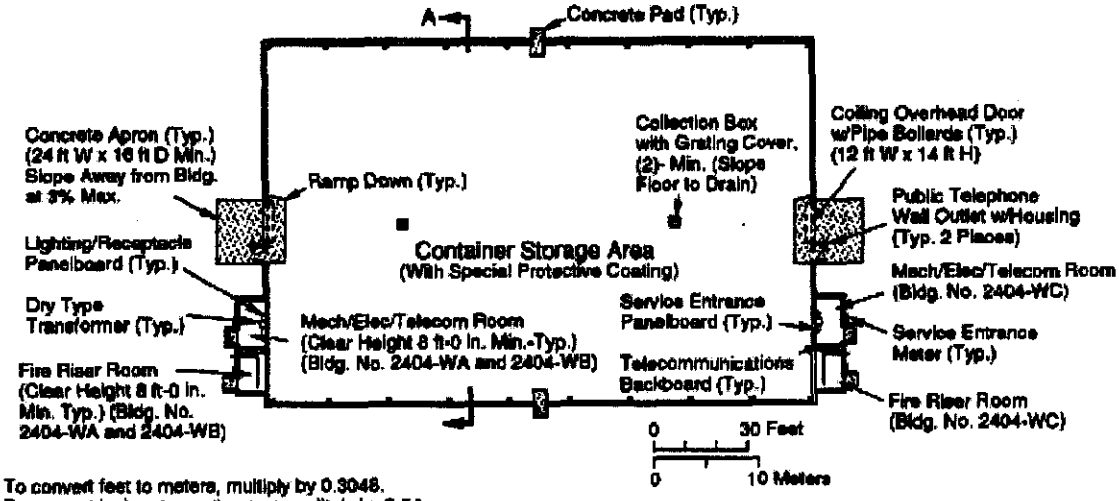


39304068.10

Typical Mixed Waste Storage Building (2404-WA, WB and WC)



A Section



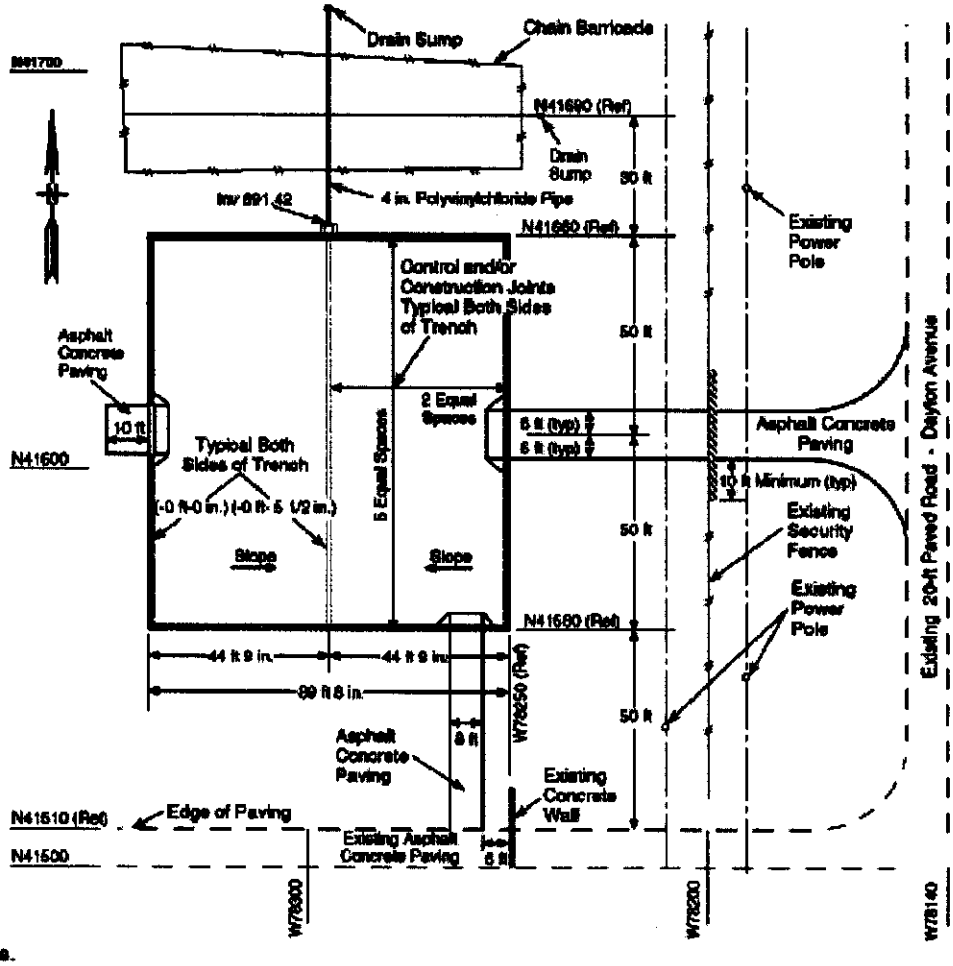
Note: To convert feet to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

Floor Plan

H96080291.1

Mixed Waste Storage Pad

Civil Plan

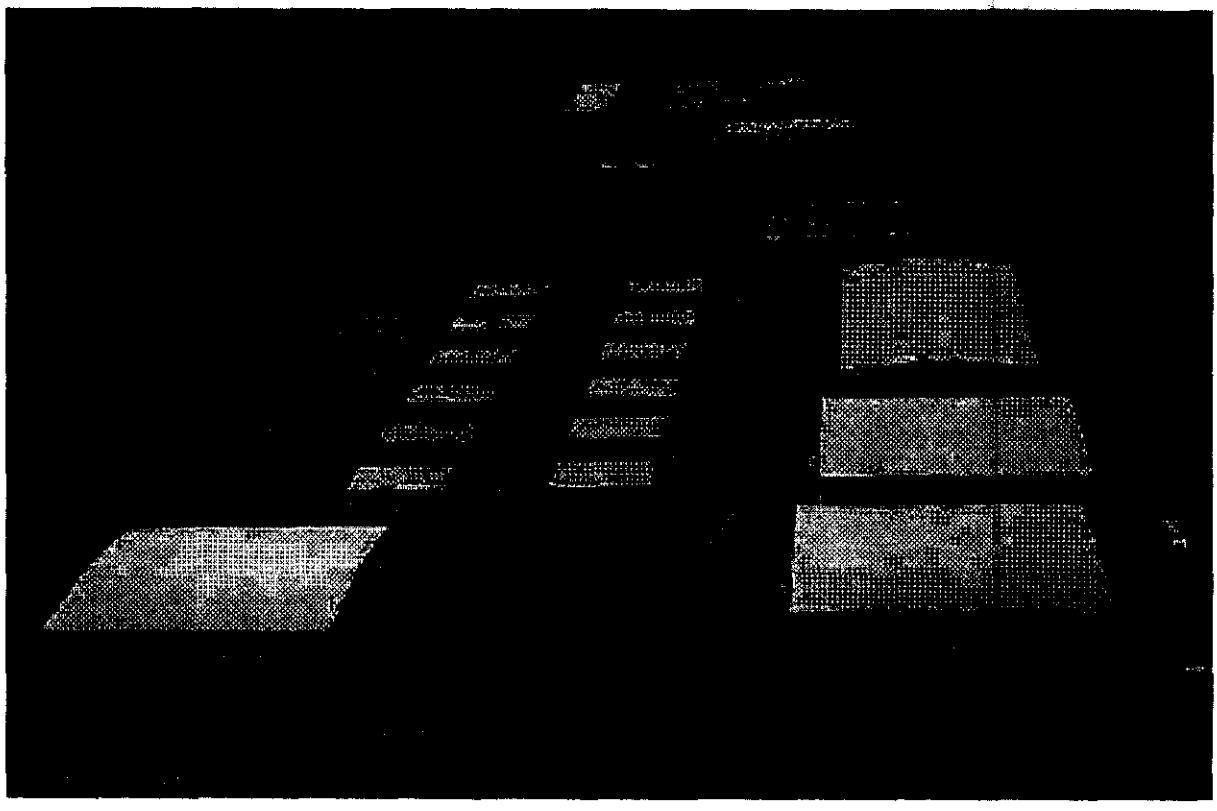


Ref = reference.
typ = typical.

Note: To convert to meters, multiply by 0.3048.
To convert inches to centimeters, multiply by 2.54.

39304068.5

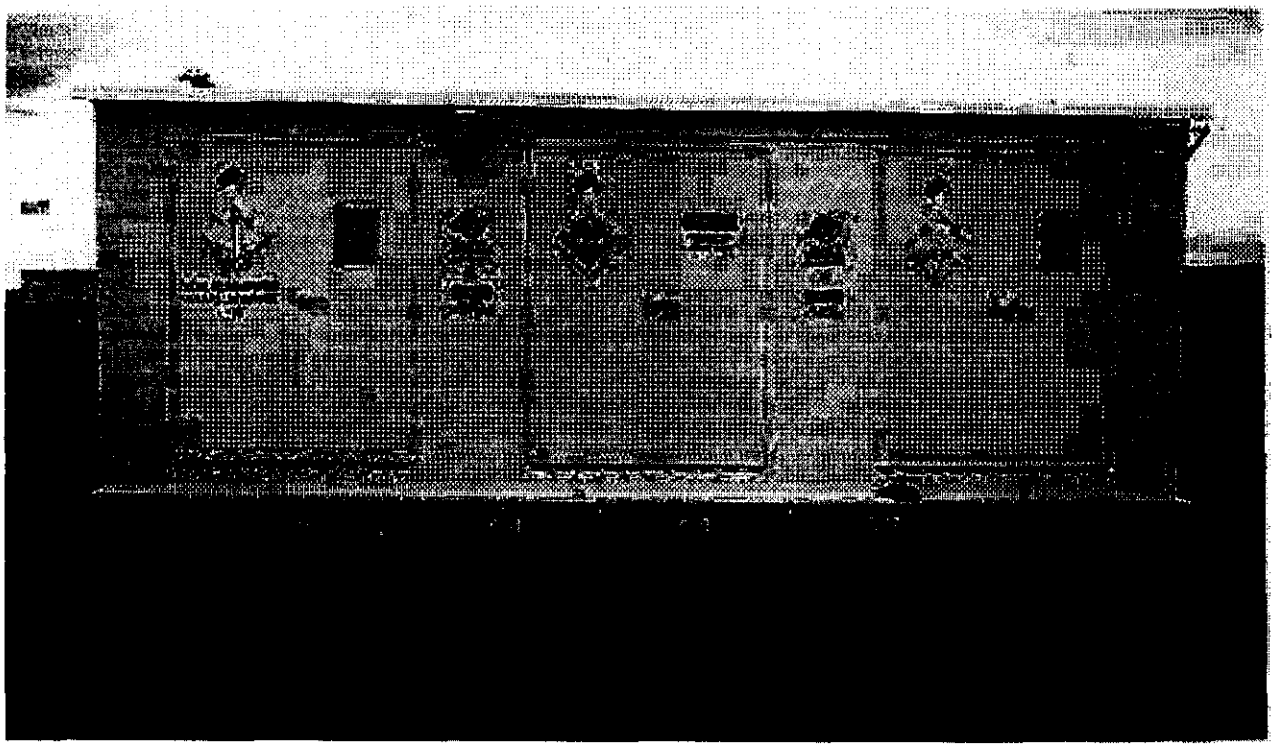
CENTRAL WASTE COMPLEX AERIAL VIEW



46°33'17"
119°38'24"

93030994-194CN
(PHOTO TAKEN 1998)

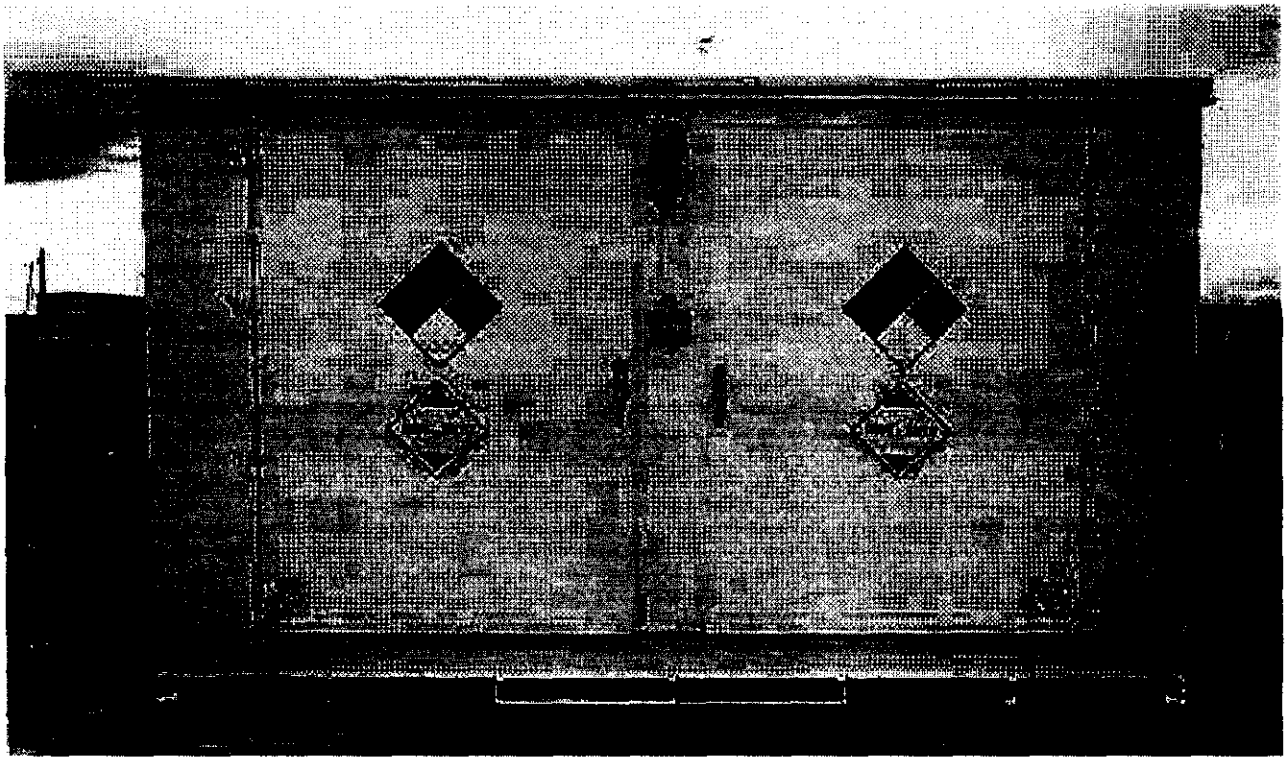
CENTRAL WASTE COMPLEX LOW-FLASH-POINT METAL MIXED WASTE STORAGE MODULES AND/OR MIXED ALKALI METAL STORAGE MODULES



TYPICAL (LARGE)
46°33'17"
119°38'24"

93040010-9CN
(PHOTO TAKEN 1993)

CENTRAL WASTE COMPLEX LOW-FLASH-POINT METAL MIXED WASTE STORAGE MODULES AND/OR MIXED ALKALI METAL STORAGE MODULES



TYPICAL (SMALL)
46°33'17"
119°38'24"

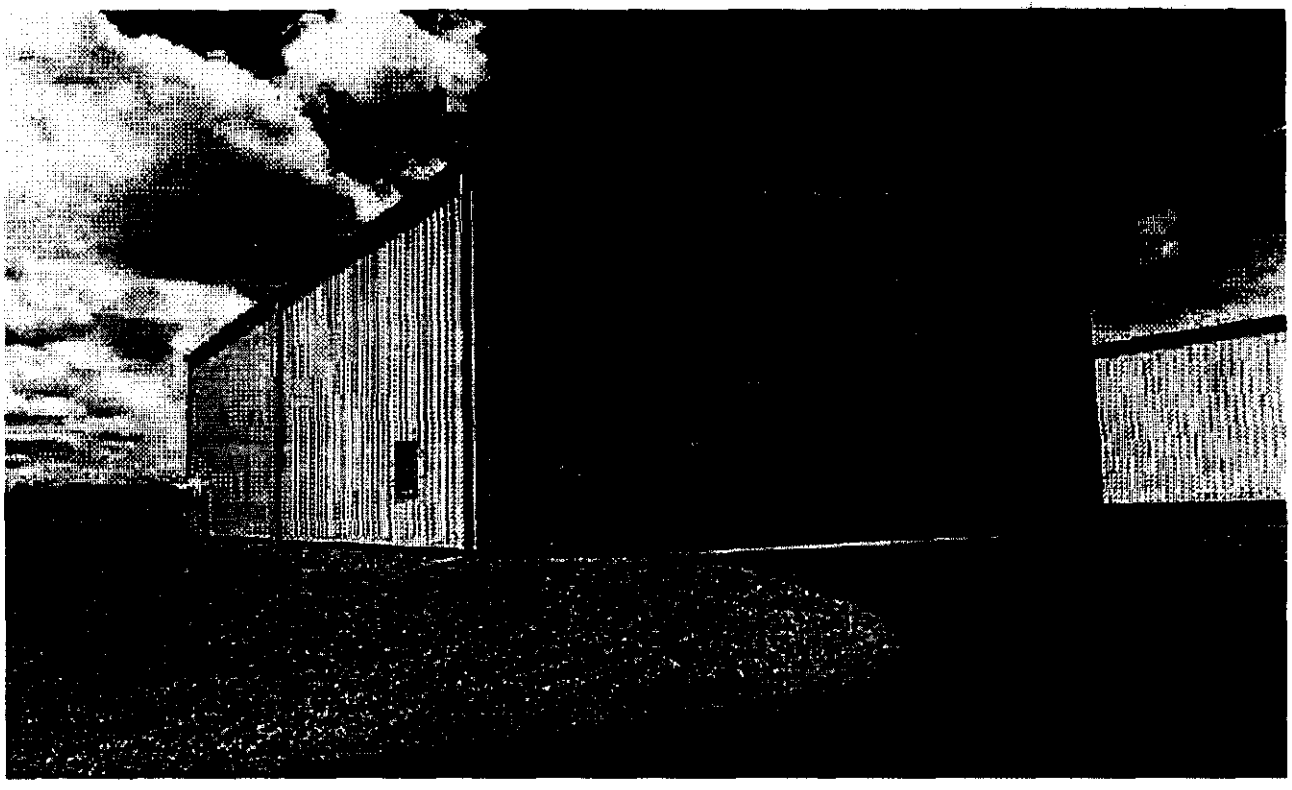
93040010-11CN
(PHOTO TAKEN 1993)

CENTRAL WASTE COMPLEX PLUTONIUM/POLYCHLORINATED BIPHENYL MIXED WASTE STORAGE BUILDING

TYPICAL (2401-W)
46°33'17"
119°38'24"

90061110-44CN
(PHOTO TAKEN 1990)

CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE METAL STORAGE BUILDING



TYPICAL (2402-W, 2402-WB THROUGH 2402-WL)
46°33'17"
119°38'24"

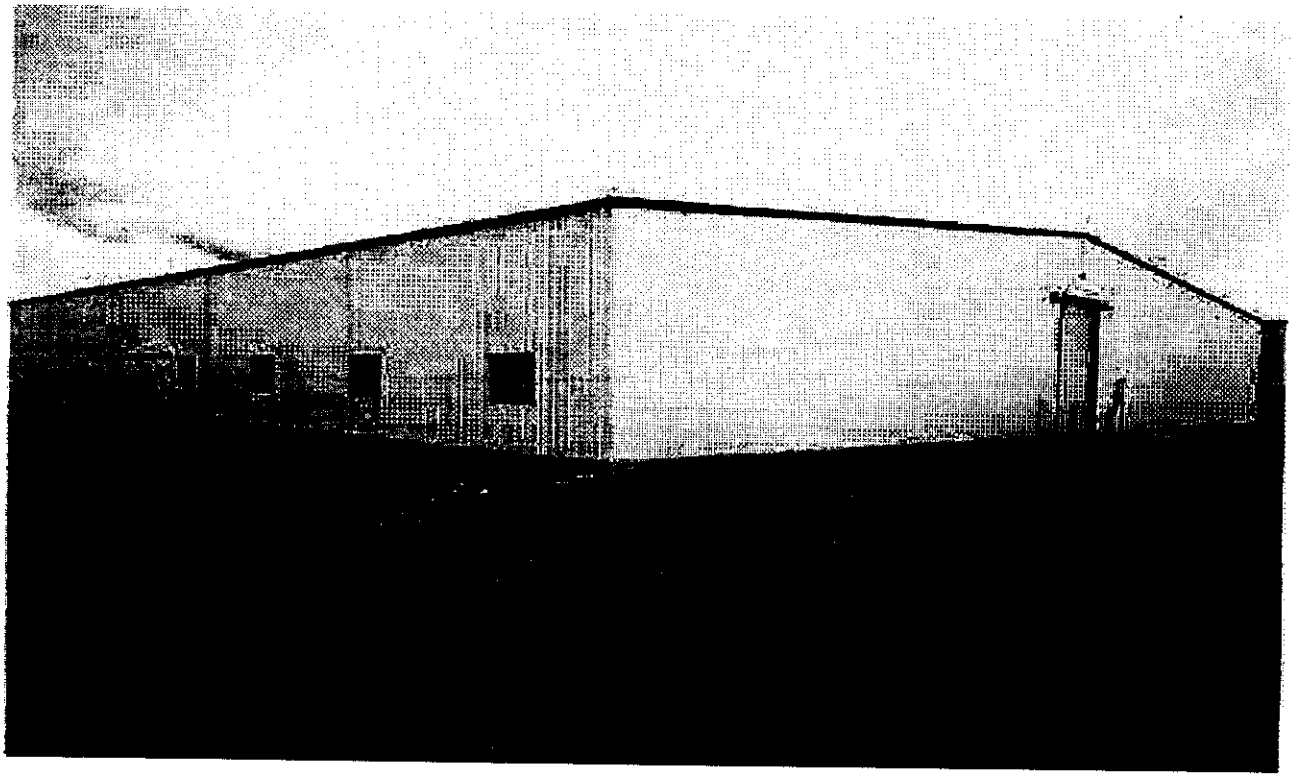
90061110-26CN
(PHOTO TAKEN 1990)

CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE METAL STORAGE BUILDING

TYPICAL (INTERIOR)
46°33'17"
119°38'24"

90061110-10CN
(PHOTO TAKEN 1990)

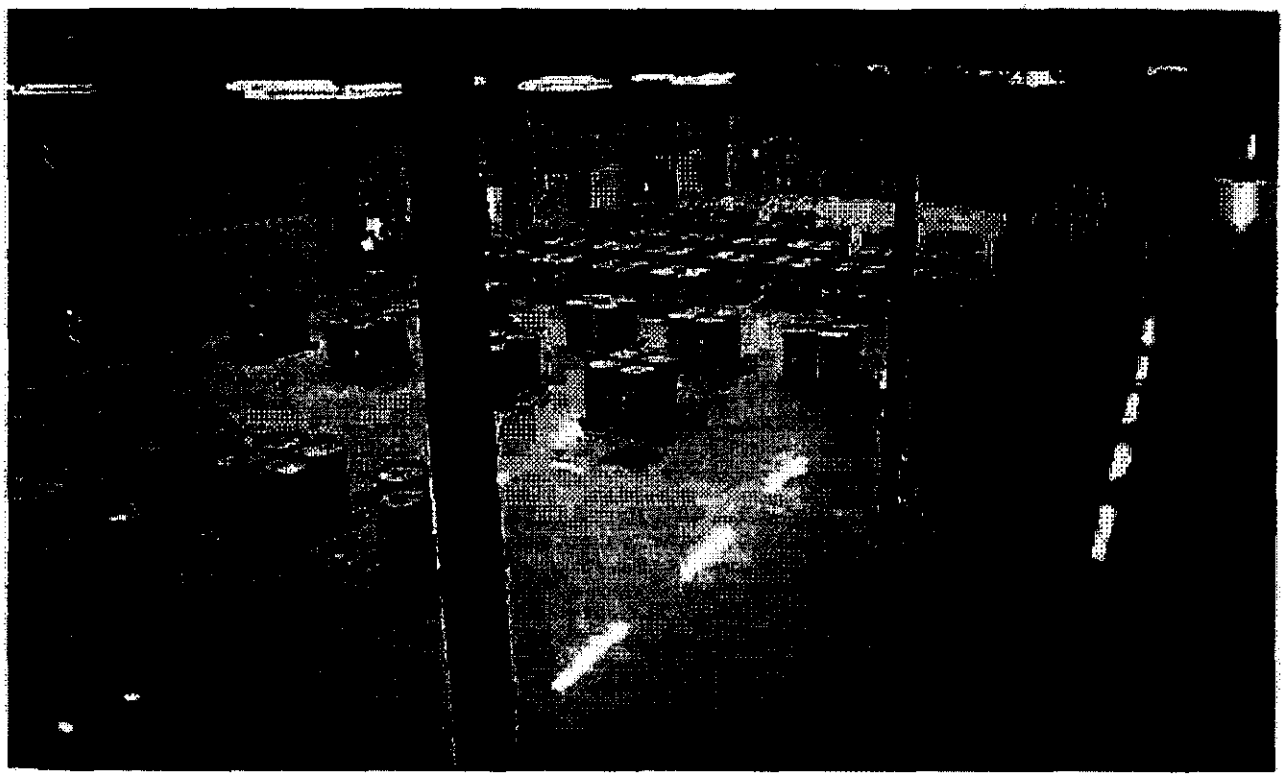
CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE STORAGE BUILDING



TYPICAL (2403-WA, WB, AND WC)
46°33'17"
119°38'24"

93040010-22CN
(PHOTO TAKEN 1993)

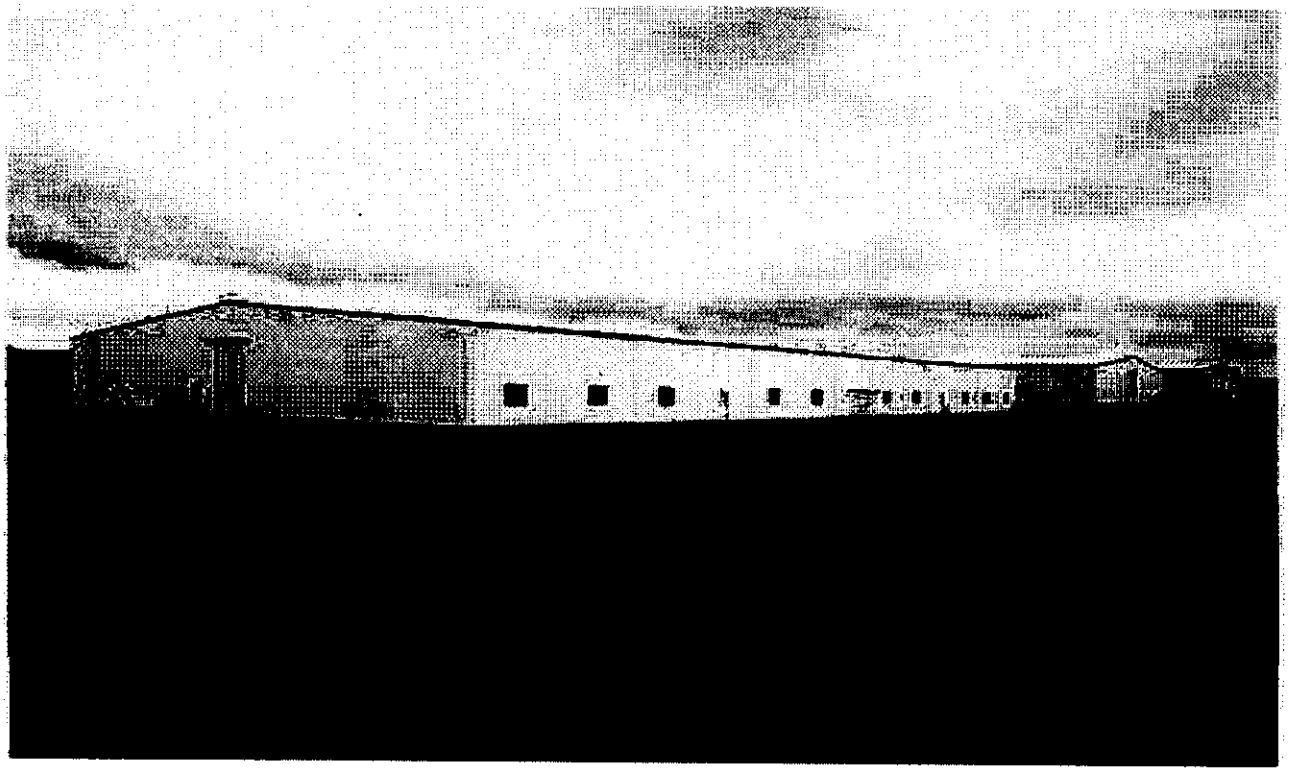
CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE STORAGE BUILDING



TYPICAL (INTERIOR)
46°33'17"
119°38'24"

93040010-25CN
(PHOTO TAKEN 1993)

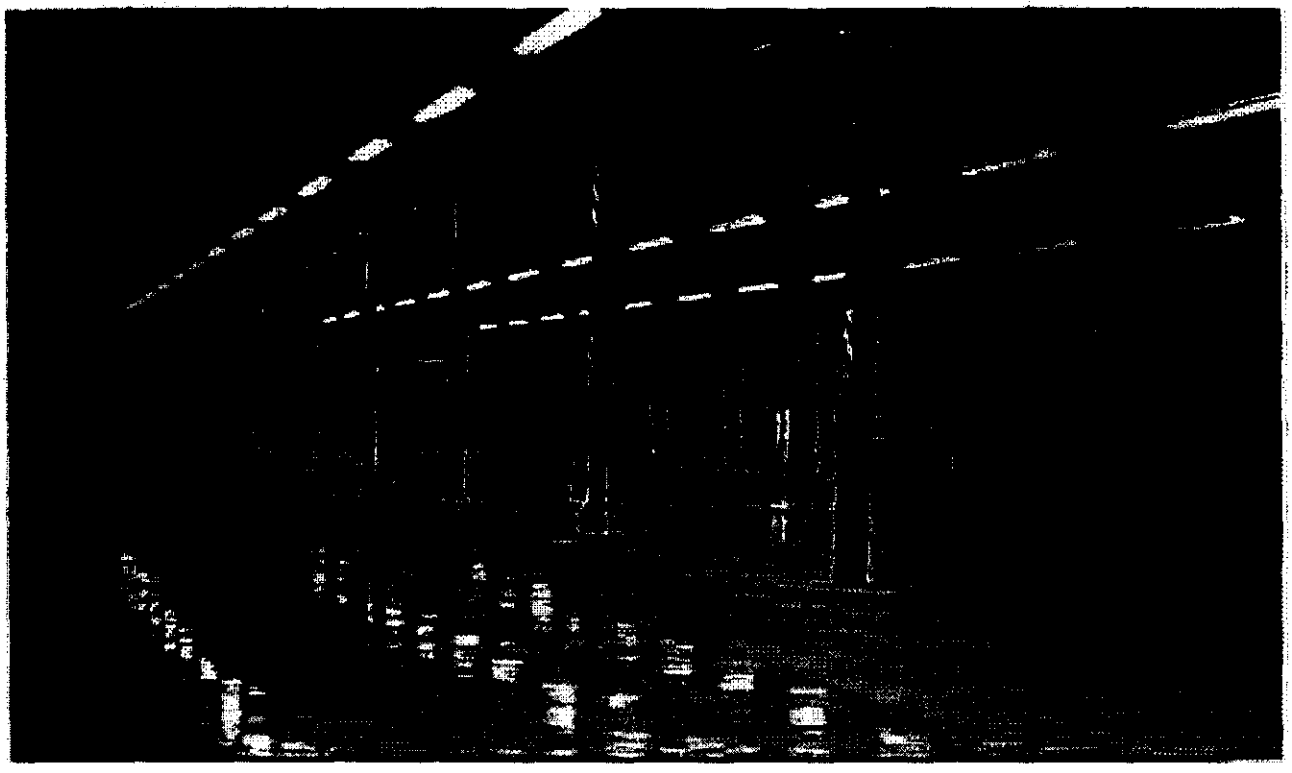
CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE STORAGE BUILDING



TYPICAL (2403-WD)
46°33'17"
119°38'24"

93040010-13CN
(PHOTO TAKEN 1993)

CENTRAL WASTE COMPLEX RADIOACTIVE AND/OR MIXED WASTE STORAGE BUILDING



TYPICAL (INTERIOR)
46°33'17"
119°38'24"

93040010-16CN
(PHOTO TAKEN 1993)

CENTRAL WASTE COMPLEX
MIXED WASTE STORAGE BUILDING

TYPICAL (2404-WA, WB, and WC)
46°33'17"
119°38'24"

96080579-29CN
(PHOTO TAKEN 1996)

CENTRAL WASTE COMPLEX
MIXED WASTE STORAGE BUILDING

TYPICAL (INTERIOR)
46°33'17"
119°38'24"

96080579-32CN
(PHOTO TAKEN 1996)

DOE/RL-88-21
Central Waste Complex
Rev. 6, 6/28/99

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
		Pending Approval

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 this facility. If the list provides no suitable codes, leave it blank and enter the codes 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	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. 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 on 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	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A		
LITERS	L	TONS PER HOUR	D	HECTARE-METER	E		
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S		
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	O		
GALLONS PER DAY	D	LITERS PER HOUR	H				

DOE/RL-88-21
Single-Shell Tank System
Rev. 6, 12/21/99

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
		Pending Approval

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. For processes capable of handling several different wastes, use the code(s) for the process(es) most ideally suited for the wastes specified to the process. If the process will be used that is not included in the list of process codes below, then describe the process (including its design capacity) in the space provided on the [illegible]

PROCESS DESIGN CAPACITY - For each code entered in column B(1), 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 of 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	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 on Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
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			
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	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	E
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
207-A South Retention Basin
Rev. 2, 9/26/96

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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
		Pending Approval

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. Two lines are provided for entering codes. If more lines are needed, enter the codes 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)

PROCESS DESIGN CAPACITY - For each code entered in column B, enter the capacity for 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 best describes the unit of measure used. Only the codes of measure that are listed below should be used.

PROCESS	CODE	PROCESS DESIGN CAPACITY — APPROPRIATE UNIT OF MEASURE FOR PROCESS	PROCESS	CODE	PROCESS DESIGN CAPACITY — APPROPRIATE UNIT OF MEASURE FOR PROCESS
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	GALLONS PER HOUR OR LITERS PER HOUR; GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRE-FEET (the volume that would cover the area to a depth of one foot) OR HECTARE-METER	OTHER (Use for physical, chemical, thermal or biological treatment processes not covered by tanks, surface impoundments or incinerators. Describe the processes in the space provided on 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	CODE	UNIT OF MEASURE	CODE	UNIT OF MEASURE	CODE	UNIT OF MEASURE	CODE
GALLONS	A	LITERS PER DAY	V	ACRE-FEET	X		
LITERS	B	TONS PER HOUR	D	HECTARE-METER	Y		
CUBIC YARDS	C	METRIC TONS PER HOUR	W	ACRES	Z		
CUBIC METERS	G	GALLONS PER HOUR	E	HECTARES	Q		
GALLONS PER DAY	D	LITERS PER HOUR	H				

DOE/RL-88-21
241-CX Tank System
Rev. 3, 6/30/94

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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
		Pending Approval

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
01	01	1952

**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 contained in the instructions for each process to be used at the facility. The process codes are grouped according to the general type of process (storage, treatment, disposal). If a process will be used that is not included in the list of process codes, then describe the process (including its capacity) in the space provided in the Section III-C.

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 A(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 OR 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 in 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	CARS PER HOUR	D	HECTARE-METER	H
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		

DOE/RL-88-21
Waste Encapsulation and Storage Facility
Rev. 1, 7/13/00

FORM 3 DANGEROUS WASTE PERMIT APPLICATION

I. EPA/State I.D. No.

W	A	7	8	9	0	0	0	8	9	6	7

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/day/year)	Comments

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	YR
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.)

☐ 2. New Facility (Complete item below)

MO	DAY	YR

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 Codes and Design Capacities - For each process to be used at the facility, enter the appropriate process code(s) and design capacity. If a process will be used that is not included in the list of codes below, then describe the process in Section III-C of the Instructions.

B. Process Design Capacity - For each process entered in Section A above, enter the appropriate unit of measure.

1. Annual - Enter the letter of the appropriate unit of measure.

2. Daily - For each process entered in Section A above, enter the appropriate unit of measure codes below that describe the facility's daily operational capacities. Do not use more than one unit of measure.

PROCESS	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrels, drums, etc.)	S01	Gallons of liquid
Tank	S02	Gallons of liquid
Waste pile	S03	Cubic yards or cubic meters
Surface impoundment	S04	Gallons of liquid
DISPOSAL:		
Injection well	D80	Gallons of liquid
Landfill	D81	Acre-feet (the volume that would cover one acre to a depth of one foot) or hectare-meters
Land application	D82	Acres of land area
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons of liquid
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour, gallons per hour or liters per hour
Other (for processes not specified above or for which the applicable unit of measure is not available, describe the process in the space provided below or on a separate sheet)	T04	Gallons per day or liters per day

Units of Measure	Code	Units of Measure	Code	Units of Measure	Code	Units of Measure	Code
Gallons	G	Liters	L	Tons per Hour	T	Kilograms per Hour	K
Pounds	P	Kilograms	K	Metric Tons per Hour	W	Liters	L
Cubic Yards	Y	Cubic Meters	C	Gallons per Hour	H	Pounds	P
Cubic Meters	C	Acres	A	Liters per Hour	U	Tons	T
Gallons Per Day	V	Hectares	H				

VI. PROCESSES -- CODES AND DESIGN CAPACITIES *(continued)*

[illegible]

Line No.	A. Process Code *(from list above)*			B. Process Design Capacity 1. Amount *(specify)*	B. Process Design Capacity 2. Unit of Measure *(enter code)*			For Official Use Only	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	S	9	9	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 began mixed waste management activities on July 14, 1997. The waste is stored in capsules consisting of stainless steel containers that includes primary and secondary containment. The maximum outer containment 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 maximu process design capacity for miscellaneous storage in the pool cells and process cells is approximately 4,540 liters (~1,200 gallons).

DESCRIPTION OF DANGEROUS WASTES

[illegible]

D. [illegible]

C. [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

D. [illegible]

1. [illegible]

[illegible]

2. [illegible]

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the lines as follows:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by giving the total annual quantity of the waste, and describing all the processes to be used to treat, store, and/or dispose of the waste.

2. Identify on the next line the other Dangerous Waste Number that can be used to describe the waste in column A. Do not enter any other data on this line.

3. Repeat step 2 for all other Dangerous Waste Numbers that can be used to describe the dangerous waste.

Example for completing Section D (shown on the lines for X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of sludge arising from 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	D	0	0	3	900	P	T03	D80		
X-2	D	0	0	2	400	P	T03	D80		
X-3	D	0	0	1	100	P	T03	D80		
X-4	D	0	0	2			T03	D80	included with above	

Photocopy this page before completing if you have more than 26 wastes to list.

Number *(enter from page 1)*	
W A 7 8 9 0 0 0 8 9 6 7	

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

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))*
1	D	0	0	5	5,000		K		S99				Other Storage - Misc Storage
2	D	0	0	6			↓		↓				↓
3	D	0	0	7			↓		↓				↓
4	D	0	0	8			↓		↓				↓
5	D	0	1	1			↓		↓				↓
6	W	T	0	1			↓		↓				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)*				

VII. 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	07/13/2000

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.

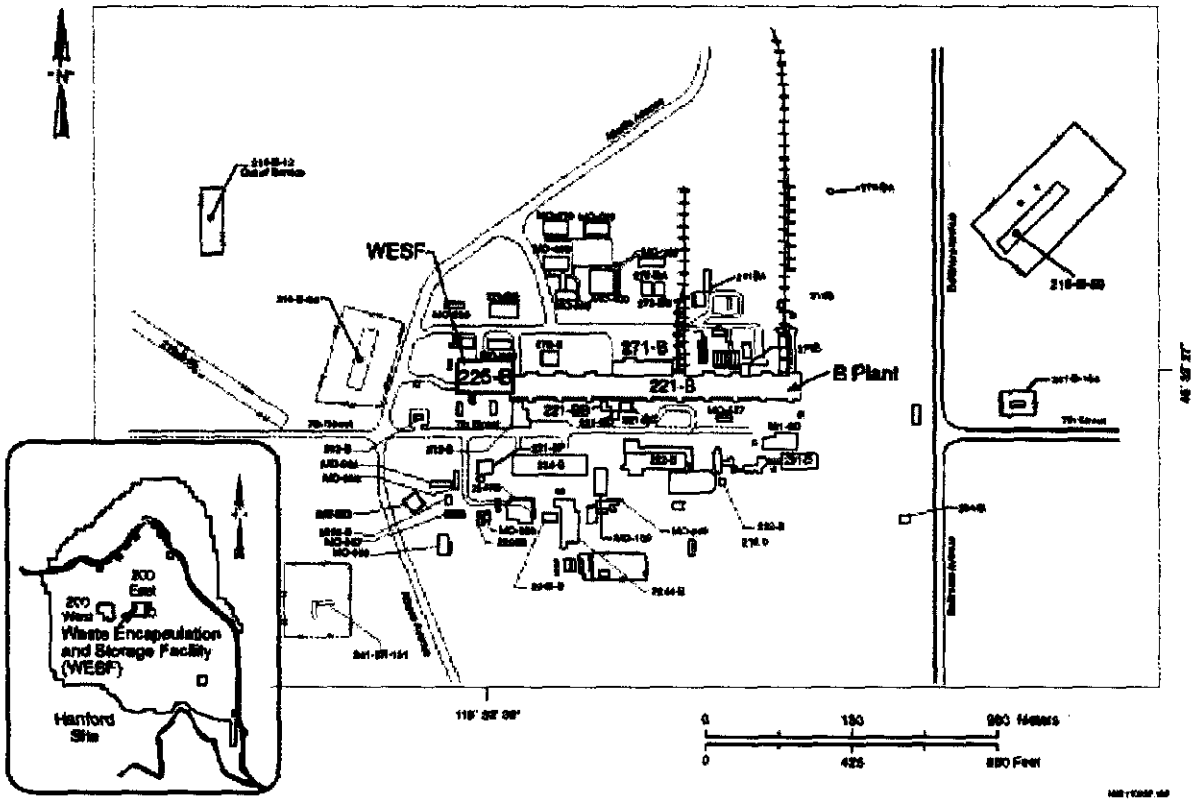
Keith A. Klein
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

7/13/00
Date

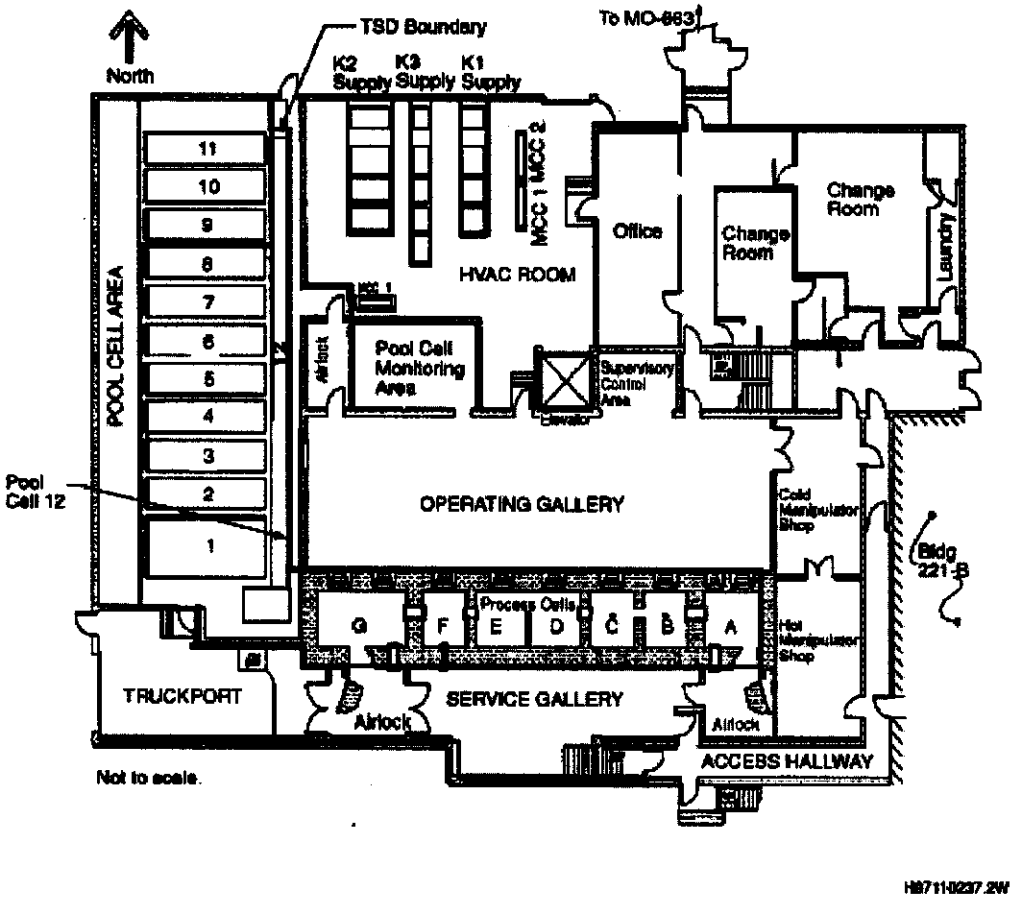
D. B. Van Leuven for
Co-Operator
Ron D. Hanson
President and Chief Executive Officer
Fluor Daniel Hanford, Inc.

6/30/00
Date

Waste Encapsulation and Storage Facility
Site Plan



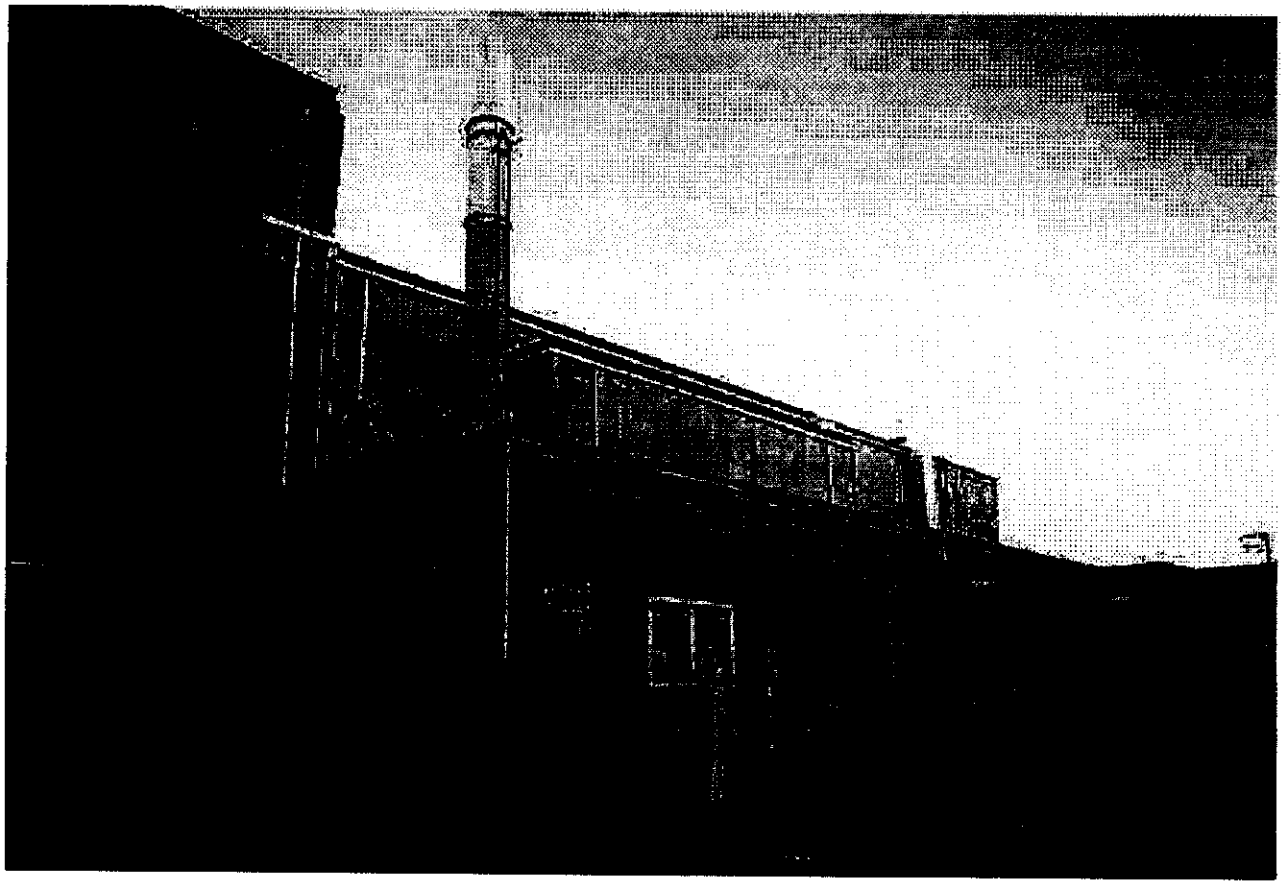
H97110237.1



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

H97110237.2

WASTE ENCAPSULATION AND STORAGE FACILITY



225-B BUILDING

46^{0}33'27"
119^{0}32'36"

97110265-14CN
(PHOTO TAKEN 1997)

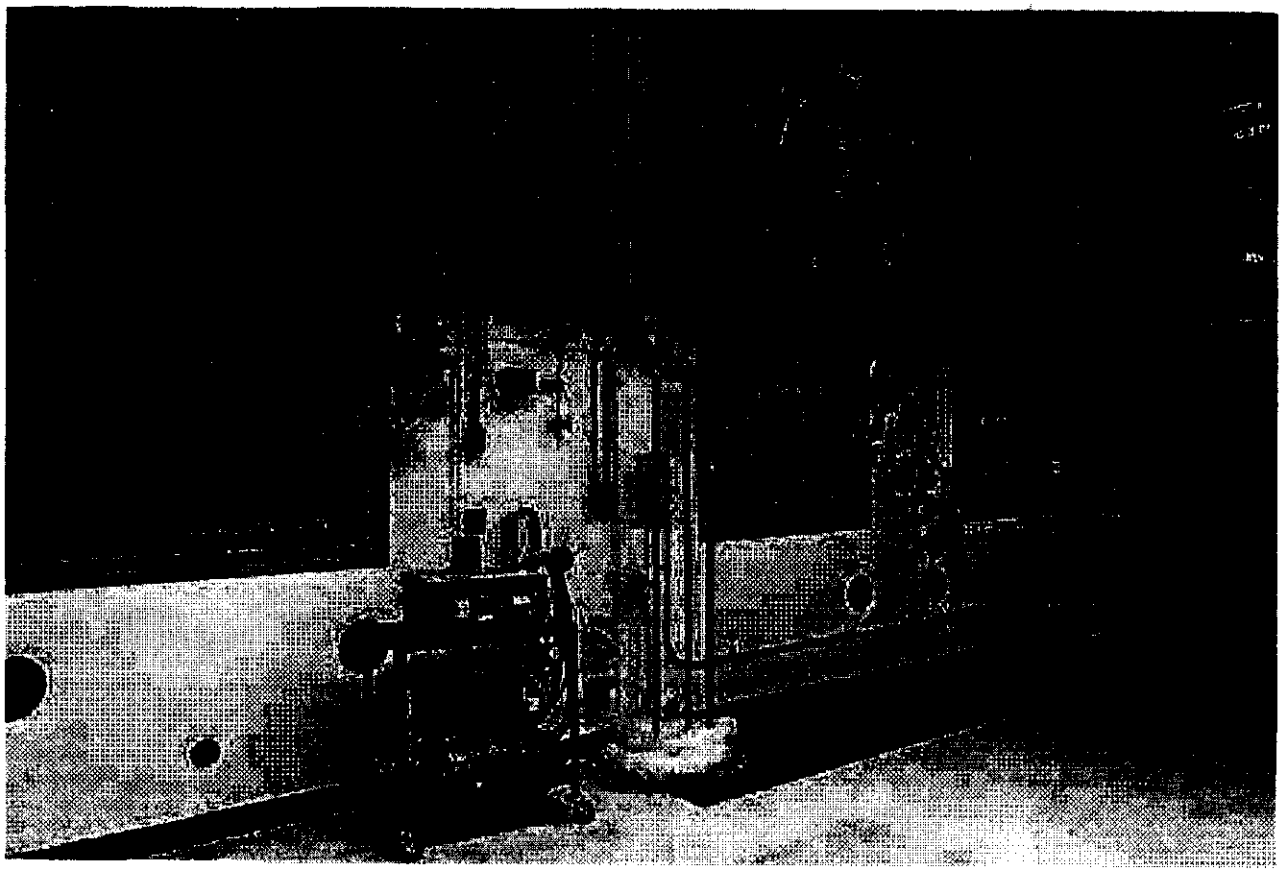
WASTE ENCAPSULATION AND STORAGE FACILITY

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)

DOE/RL-88-21
Low-Level Burial Grounds
Rev. 11, 12/23/98

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
		Denied

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 appropriate process code(s) from the lists below for each process to be used at the facility. For storage, provide the appropriate storage code. For other disposal, storage, or treatment processes that are not included in the lists below, provide the appropriate process code(s) and design capacity for each process to be used at the facility. If a process will be used that is not included in the lists below, describe the process in the space provided at the end of Section III-C.

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

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each process entered in column A(1), enter the code from the list of unit of measure codes below that represents the unit of measure used. Only the codes in this list are to be used.

PROCESS	B(1). AMOUNT - APPROPRIATE UNITS OF MEASURE FOR PROCESS CODE	B(2). UNIT OF MEASURE CODE	PROCESS	B(1). AMOUNT - APPROPRIATE UNITS OF MEASURE FOR PROCESS CODE	B(2). UNIT OF MEASURE CODE
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 GALLONS PER HOUR OR LITERS PER HOUR OR BTU PER HOUR OR GALLONS PER DAY OR LITERS PER DAY	
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	A	LITERS PER DAY	V	ACRE-FEET	X
LITERS	B	TONS PER HOUR	D	HECTARE-METER	Y
CUBIC YARDS	C	METRIC TONS PER HOUR	W	ACRES	Z
CUBIC METERS	E	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-S-10 Pond and Ditch
Rev. 3, 6/30/94

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
		Pending Approval

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
05	01	1952

**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. Fill first lines are provided for entering codes. If more lines are needed, enter the codes in the space provided. If a process will be used that is not included in the list of codes below, describe the process (including its design capacity) in the space provided on the Section III-C.

B. PROCESS DESIGN CAPACITY - For each process entered in Section III-A, enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in Section III-B, enter the code from the list of unit measure codes below that best describes the unit of measure used. Only the units of measure that are listed below are to be used.

PROCESS	PROCESS CODE	PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	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	GALLONS PER DAY OR LITERS PER DAY OR BTU PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS	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 in Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METERS			
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	A	GALLONS PER DAY	V	ACRES	Y
LITERS	B	LITERS PER DAY	D	HECTARES	Z
CUBIC YARDS	C	METRIC TONS PER HOUR	W		
CUBIC METERS	G	GALLONS PER HOUR	E		
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-A-29 Ditch
Rev. 3, 6/30/94

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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
		Pending Approval

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
11	01	1956

**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 CODES - Enter the appropriate process code(s) from the following list that best describes each process to be used at this facility. If a process required for your facility is not listed, then you must provide the process code(s) for the closest process available and describe the process in Section III-C.

PROCESS DESIGN CAPACITY - Capacity must be specified for each process code entered.

1. AMOUNT - Enter a whole number.

2. UNIT OF MEASURE - For each process code entered, enter the appropriate unit of measure. Use only the units of measure that are listed below as applicable.

PROCESS	PROCESS CODE	UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			**Treatment:**		
CONTAINER (barrel, drum, vehicle)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY OR LITERS PER DAY
TANK	S02	GALLONS OR LITERS		T02	GALLONS PER HOUR OR LITERS PER HOUR
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	SURFACE IMPOUNDMENT	T03	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	INCINERATOR	T04	TONS PER HOUR OR METRIC TONS PER HOUR GALLONS PER HOUR OR LITERS PER HOUR
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 listed in tanks, surface impoundments or incinerators. Describe the processes in the space provided in Section III-C)	T05	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	V	GALLONS PER DAY	V	ACRES	A
LITERS	L	LITERS PER DAY	D	HECTARE-METER	H
CUBIC YARDS	Y	GALLONS PER HOUR	W	ACRES	S
CUBIC METERS	C	LITERS PER HOUR	E	HECTARES	O
GALLONS PER DAY	D		R		

DOE/RL-88-21
216-B-3 Main Pond
Rev. 6, 3/30/00

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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
		Pending Approval

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 describe each process to be used. Give the capacity for each process by entering codes. If process codes are needed, enter the codes in the space provided. If a process will be used that is not included in the list of codes below, describe the process (in Section III-C) in the space provided in Section III-C.

B. PROCESS DESIGN CAPACITY - For each code entered, 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	PROCESS DESIGN CAPACITY - APPROPRIATE UNIT OF MEASURE FOR PROCESS	PROCESS	PROCESS CODE	PROCESS DESIGN CAPACITY - APPROPRIATE UNIT OF MEASURE FOR PROCESS
Storage:			**Treatment:**		
CONTAINER (SPECIFY VOLUME)	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 OR GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS	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 in Section III-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D83	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	A	LITERS PER DAY	V	ACRE-FEET	X
LITERS	B	TONS PER HOUR	D	HECTARE-METER	Y
CUBIC YARDS	C	METRIC TONS PER HOUR	W	ACRES	Z
CUBIC METERS	E	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-B-63 Trench
Rev. 3, 9/26/96

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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
		Pending Approval

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 this facility. Two lines are provided for entering codes. If more than two codes are required, enter the codes in the space provided. If a process will be used that is not included in the process codes below, then describe the process in the space provided at the bottom of Section III-C.

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

1. AMOUNT - Enter the amount.

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

PROCESS	PROCESS CODE	PROCESS DESIGN CAPACITY - APPROPRIATE UNITS OF MEASURE FOR PROCESS CODE	PROCESS	PROCESS CODE	PROCESS DESIGN CAPACITY - APPROPRIATE UNITS OF MEASURE FOR PROCESS CODE
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 OR 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 in 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	TONS PER HOUR	A
LITERS	L	TONS PER HOUR	D	METRIC TONS PER HOUR	S
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	GALLONS PER HOUR	E
CUBIC METERS	C	GALLONS PER HOUR	E	LITERS PER HOUR	T
GALLONS PER DAY	U	LITERS PER HOUR	H	ACRES	
				HECTARES	

DOE/RL-88-21
216-A-10 Crib
Rev. 3, 6/30/94

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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
		Pending Approval

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
10	15	1961

**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 appropriate process code(s) listed below that best describes each process to be used at the facility. If a process is not provided for among codes S01-T04, then use the codes D99 and/or S99, and describe the process 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).

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 process entered in column B(1), enter the code from the list of unit measure codes 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
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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) HECTARE-METERS (the volume that would cover one hectare to a depth of one 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	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	POUNDS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not specified in boxes, surface impoundments or incinerators. Describe the processes in the space provided on 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	A	LITERS PER DAY	V	ACRE-FEET	Y
LITERS	B	POUNDS PER HOUR	D	HECTARE-METER	Z
CUBIC YARDS	C	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	G	GALLONS PER HOUR	E	HECTARES	O
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-U-12 Crib
Rev. 3, 6/30/94

Please print or type in the unshaded areas only
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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
		Pending Approval

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
04	01	1960

*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 - Select the appropriate process code below that best describes each process to be used at the facility. Codes are provided for storage, treatment, and disposal processes. If the process will be used that is not included in the list of codes below, then describe the process (with its design capacity) in the space provided in Section III-C).

PROCESS DESIGN CAPACITY - For each code entered in column B(1), 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 best describes the unit of measure used. Only the unit of measure listed for any listed process may 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 OR GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D79	GALLONS OR LITERS			
LANDFILL	D80	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe in the processes in the space provided Section III-C)	T04	GALLONS PER DAY OR LITERS PER DAY
LAND APPLICATION	D81	ACRES OR HECTARES			
OCEAN DISPOSAL	D82	GALLONS PER DAY OR LITER PER DAY			
SURFACE IMPOUNDMENT	D83	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	B
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-A-36B Crib
Rev. 1, 6/30/94

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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
		Pending Approval

II. FIRST OR REVISED APPLICATION

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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
09	15	1965

**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. Ensure that the storage codes, if given, are consistent with the codes in the Section III-B. If a process will be used that is not included in the 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 codes of measure that are listed below should be used.

PROCESS	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. 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 METRIC TONS PER HOUR
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR METRIC TONS PER HOUR
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	GALLONS PER HOUR OR METRIC TONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			GALLONS PER DAY OR METRIC TONS PER DAY
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRE-FEET (the volume that would cover the area to a depth of one foot) OR HECTARE-METERS	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 on Section III-C.)	T04	GALLONS PER DAY OR METRIC TONS PER DAY
LAND APPLICATION	D82	ACRE-FEET PER ACRE			
OCEAN DISPOSAL	D83	GALLONS PER DAY OR METRIC TONS 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	A	GALLONS PER DAY	V	ACRES	X
LITERS	B	TONS PER HOUR	D	HECTARE-METERS	Y
CUBIC YARDS	F	METRIC TONS PER HOUR	W	ACRE-FEET	Z
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	G
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
216-A-37-1 Crib
Rev. 2, 6/30/94

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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

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		Pending Approval

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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	18	1977

**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 appropriate process code from the list of processes in the boxes below that best describes each process to be used at the facility. For storage processes, enter one storage code. Enter one or more treatment, disposal, or other processes as needed to describe the processes to be used at the facility. If the space provided is not sufficient, use the space provided in Section I(H).

PROCESS CAPACITY. For each process entered in column 1(C), enter the capacity of the process.

1. AMOUNT. Enter one amount.

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

PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:			Treatment:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS	TANK	T01	GALLONS PER DAY
TANK	S02	GALLONS OR LITERS	SURFACE IMPOUNDMENT	T02	GALLONS PER DAY
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS	INCINERATOR	T03	GALLONS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal, or biological processes not occurring in tanks, containers, or incinerators. Describe in Section I(H) the processes to be used and the materials to be treated.)	T04	GALLONS PER DAY OR LITERS PER DAY
LANDFILL	D81	ACRE-FEET (the volume covering one acre to a depth of one foot)			
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	GALLONS PER DAY	V	ACRE-FEET	Y
LITERS	L	LITERS PER DAY	W	ACRES	A
CUBIC YARDS	Y	GALLONS PER HOUR	D	HECTARE-METERS	H
CUBIC METERS	C	LITERS PER HOUR	E	HECTARES	C
GALLONS PER DAY	U				

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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4.1.1.3 1706-KE Waste Treatment System	3	09/26/1996	Pending
4.1.1.4 183-H Solar Evaporation Basins	4	06/30/1994	08/18/94
4.1.2 Disposal Facilities			
4.1.2.1 1301-N Liquid Waste Disposal Facility	7	02/25/1997	05/18/99
4.1.2.2 1325-N Liquid Waste Disposal Facility	7	02/25/1997	05/18/99
1324-NA Percolation	3	06/30/1994	05/18/99

4.1.2.3	Pond	3	06/30/1994	
4.1.2.4	100-D Pond CLOSED 08/09/99	4	06/30/1994	08/09/99

4.2 200 AREA FACILITIES

4.2.1 Treatment Facilities

4.2.1.1	221-B Process Facility CLOSED 02/27/99	3	09/26/1996	02/27/99
4.2.1.2	200 West Area Storage Pad Demolition Site CLEAN-CLOSED 11/28/95	4	06/30/1994	11/28/95
4.2.1.3	218-B-8 Burial Pit Demolition Site CLEAN-CLOSED 11/28/95	4	06/30/1994	11/04/94
4.2.1.4	242-A Evaporator	7	09/26/1996	10/16/96
4.2.1.5	Grout Treatment Facility	6	09/30/1999	11/01/99
4.2.1.5	Grout Treatment Facility	7	12/21/1999	Pending
4.2.1.6	T Plant Complex	7	12/23/1998	04/01/99
4.2.1.7	241-Z Treatment and Storage Tanks	6	05/05/2000	07/05/00
4.2.1.8	B Plant Complex	8	11/22/1999	11/22/99
4.2.1.9	222-S Laboratory Complex	7	12/23/1998	02/11/99
4.2.1.9	222-S Laboratory Complex	8	08/30/2000	Pending
4.2.1.10	204-AR Waste Unloading Station	5	09/30/1999	10/21/99
4.2.1.10	204-AR Waste Unloading Station	6	12/21/1999	Pending
4.2.1.11	PUREX Plant	9	08/04/1999	08/19/99
4.2.1.12	Hanford Waste Vitrification Plant	5	09/26/1996	Pending
4.2.1.12	Hanford Waste Vitrification Plant	6	09/30/1999	Denied
4.2.1.13	200 Area Effluent Treatment Facility	3	05/22/1998	05/18/99
4.2.1.14	Waste Receiving and Processing Facility	3	06/28/1999	Pending
4.2.1.14	Waste Receiving and Processing Facility	2	05/22/1998	03/12/97
4.2.1.15	Plutonium Finishing Plant Treatment Unit	1	04/10/2000	06/09/00

4.2.1.15	Plutonium Finishing Plant Treatment and Storage Unit	2	07/05/2000	Denied

4.2.2 Storage Facilities

[redacted]				
4.2.2.2	Double-Shell Tank System	9	09/30/1999	10/21/99
4.2.2.2	Double-Shell Tank System	10	12/21/1999	Pending
4.2.2.3	Hexone Storage and Treatment Facility	3	06/30/1994	Pending
[redacted]				
4.2.2.5	PUREX Storage Tunnels	5	09/26/1996	10/16/96
4.2.2.6	224-T Transuranic Waste Storage and Assay Facility	6	09/26/1996	11/06/96
4.2.2.7	Central Waste Complex	6	06/28/1999	Pending
4.2.2.7	Central Waste Complex	4	09/26/1996	02/18/97
4.2.2.8	Single-Shell Tank System	6	12/21/1999	Pending
4.2.2.9	207-A South Retention Basin	2	09/26/1996	Pending
4.2.2.10	Liquid Effluent Retention Facility	6	05/22/1998	05/18/99
4.2.2.11	241-CX Tank System	3	06/30/1994	Pending
4.2.2.12	Waste Encapsulation and Storage Facility	1	07/13/2000	08/25/00
4.2.2.13	IHLW Interim Storage Unit	0	06/28/1999	07/28/99

4.2.3 Disposal Facilities

4.2.3.1	Low-Level Burial Grounds	11	12/23/1998	Denied
4.2.3.2	216-S-10 Pond and Ditch	3	06/30/1994	Pending
[redacted]				
4.2.3.4	216-A-29 Ditch	3	06/30/1994	Pending
4.2.3.5	216-B-3 Main Pond	6	03/30/2000	Pending
4.2.3.6	216-B-63 Trench	3	09/26/1996	Pending
4.2.3.7	216-A-10 Crib	3	06/30/1994	Pending
4.2.3.8	216-U-12 Crib	3	06/30/1994	Pending
4.2.3.9	216-A-36B Crib	1	06/30/1994	Pending
4.2.3.10	216-A-37-1 Crib	2	06/30/1994	Pending
[redacted]				

	CLEAN CLOSED 07/31/95			

4.3 300 AREA FACILITIES

4.3.1 Treatment Facilities

4.3.1.1	300-1 Alcohol Metal Treatment and Storage Area CLEAN CLOSED 08/04/98	4	09/26/1996	08/04/98
4.3.1.2	300 Ethics Plant CLOSED 06/09/92	3	05/19/1988	06/09/92
4.3.1.3	300 Concretion Facility CLEAN CLOSED 10/21/96	4	06/21/1990	10/21/96
4.3.1.4	300 Area Solvent Evaporator CLEAN CLOSED 07/31/95	4	07/27/1990	07/31/95
4.3.1.5	300 Area Waste Acid Treatment System	5	09/26/1996	Pending
4.3.1.6	303-M Oxide Facility	1	09/26/1996	Pending
4.3.1.7	325 Hazardous Waste Treatment Units	4A	06/29/2000	08/18/00
4.3.1.8	Biological Treatment Test Facilities CLOSED 12/10/96	0	05/19/1988	12/10/96
4.3.1.9	Physical and Chemical Treatment Test Facilities CLOSED 05/13/96	1	08/03/1990	05/13/96
4.3.1.10	Thermal Treatment Test Facilities CLOSED 05/13/96	0	05/19/1988	05/13/96

4.3.2 Storage Facilities

4.3.2.1	311 Tanks	1	11/16/1987	Pending
4.3.2.2	303-K Storage Facility	5	09/26/1996	02/25/98
4.3.2.3	305-B Storage Facility	1	12/20/1990	09/27/94
4.3.2.4	306 Storage Facility CLOSED 04/21/93	0	05/19/1988	04/21/93

4.3.3 Disposal Facilities

4.3.3.1	300 Area Process Trenches	4	05/25/1995	Pending

4.4 400 AREA FACILITIES

4.4.1 Treatment Facilities

4.4.1.1	437 Maintenance and Storage Facility	3	09/26/1996	Pending

4.4.2 Storage Facilities

4.4.2.1	4843 Alkali Metal Storage Facility CLEAN CLOSED 04/14/97	3	09/26/1996	04/14/97
4.4.2.2	Sodium Storage Facility and Sodium Reaction Facility	1	09/26/1996	Pending

4.5 600 AREA FACILITIES

4.5.1 Treatment Facilities

4.5.1.1	Hanford Patrol Academy Demolition Site CLEAN CLOSED 10/28/95	4	[illegible]	08/95

4.5.2 Storage Facilities

4.5.2.1	616 Nonradioactive Dangerous Waste Storage Facility	7	03/04/1997	02/25/98
4.5.2.2	600 Area Purgewater Storage and Treatment Facility	3	09/11/1998	Pending

4.5.3 Disposal Facilities

4.5.3.1	Nonradioactive Dangerous Waste Landfill	4	06/30/1994	Pending

4.6 3000 AREA FACILITIES

4.6.1 Treatment Facilities

4.6.1.1	Simulated High Level Waste Slurry Treatment Storage CLEAN CLOSED 09/06/95	2	03/26/1996	09/06/95

DISCLAIMER

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

DOE/RL-88-21
300 Area Waste Acid Treatment System
Rev. 5, 9/26/96

Please print or type in the unshaded areas only
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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
		Pending Approval

II. FIRST OR REVISED APPLICATION

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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 CODES - Enter the code from the table below for each process that will be used at the facility. List processes in the order in which they are to be used. If the space provided is not sufficient, use the space provided in Section II-C. If more than one process will be used that is not provided for in the table below, then describe the process (including the capacity) in the space provided in Section II-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 measures below that best describes the capacity of the process. Processes and unit of measure codes other than those listed below should be avoided.

PROCESS	PROC. CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. CODE	APPROPRIATE UNIT 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	OTHER (Use for physical, chemical, thermal or biological treatment processes not covering tanks, surface impoundments or incinerators. Describe the processes in the space provided in Section II-C.)	T04	GALLONS PER DAY OR LITERS PER DAY
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 (the volume that would cover one hectare to a depth of one meter)			
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	ACRES	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	H
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		

DOE/RL-88-21
303-M Oxide Facility
Rev. 1, 9/26/96

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
		Pending Approval

II. FIRST OR REVISED APPLICATION

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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. If an process cannot be described by an existing process code, enter the process code(s) in the space provided. If a process will be used that is not included in the list of process codes below, then describe the process (including its design capacity) in the space provided on the (Section III-C).

PROCESS DESIGN CAPACITY - For each code entered in column 1(C), enter the capacity of the process.

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column 1(C), 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	PROC. CODES	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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
LAND APPLICATION	D82	ACRES OR HECTARES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROC. CODES	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR OR GALLONS PER HOUR OR LITERS PER HOUR
OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe in processes in the space provided on 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	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	S
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	O
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
325 Hazardous Waste Treatment Units
Rev. 4A, 6/29/00

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/State I.D. No. W A 7 8 9 0 0 0 8 9 6 7

FOR OFFICIAL USE ONLY

Application Approved	Date Received (month/day/year)	Comments

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	YR
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.)

☐ 2. New Facility (Complete item below)

MO	DAY	YR

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 Codes: Identify the process from the list of process codes for all that will be used at this facility. For storage, provide the storage capacity. Enter the appropriate process code in the process code box.

B. Process Design Capacity: For each process in column A enter the capacity of the process.

1. Amount: Enter the capacity.
2. Unit Of Measure: For each amount entered in column B(1), enter the appropriate unit of measure code from the list of unit measure codes below. For storage, only the units of measure that are listed below should be used.

PROCESS	PROCESS CODE	ATTACH ADDITIONAL PAGES IF NECESSARY PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic meters or cubic yards
Surface impoundment	S04	Gallons or liters
DISPOSAL:		
Injection well	D80	Gallons or liters
Landfill	D81	Acres or hectares (the surface area of the disposal unit in which the waste is to be disposed)
Land application	D82	Acres or hectares
Ocean disposal	D83	Gallons per day or liters per day
Surface impoundment	D84	Gallons or liters
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour or gallons per hour or liters per hour
Other (Explain in Section III-C) (Specify if hazardous waste treatment process is not occurring in tanks, surface impoundments or incinerators. Describe the processes in the space provided in 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	Pounds per square inch	Q
Liters	L	Kilograms per hour	D	Hectares	H
Cubic Yards	Y	Pounds per hour	W	Acres	A
Cubic Meters	C	Gallons per hour	E	Tons	T
Gallons Per Day	U	Liters per hour	X		

III. PROCESSES -- CODES AND DESIGN CAPACITIES *(continued)*

[illegible]

Line No.	A. Process Code *(from list above)*			B. Process Design Capacity 1. Amount *(specify)*	B. Process Design Capacity 2. Unit of Measure *(enter code)*			For Official Use Only	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1	S	0	1	10,000		L			
2	T	0	4	1,514		V			
3	S	0	2	12,574		L			
4	T	0	1	12,574		V			
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.

S01, T04, S02, T01

The 325 Harardous Waste Treatment Units (325 HWTUs) consist of the Shielded Analytical Laboratory (SAL) which includes Rooms 32, 200, 201, 202, and 203; the Hazardous Waste Treatment Unit (HWTU) encompassing Rooms 520 and 528 of the 325 Building, and the 325 Radioactive Liquid Waste Tank (RLWT)located in the southeast corner of the basement of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 10,000 liters of dangerous and/or mixed waste may be stored in containers in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04).

Liquid dangerous and/or mixed waste is transferred to tank storage via gravity drain lines located in the SAL (which drain into tank TK-1) and in Room 528 [which drain directly to the radioactive liquid waste system (RLWS)]. Tank TK-1 is drained via a jet system into the RLWS then to the RLWT and is used to collect liquid dangerous and/or mixed waste. The RLWT transfers collected dangerous and/or mixed waste to a loadout station, where mobile containers are loaded to transfer the liquid dangerous and/or mixed waste to the Double-Shell Tank System. A maximum of 12,574 liters of dangerous and/or mixed waste may be stored in tanks in the 325 HWTUs (S02). A maximum of 12,574 liters of dangerous and/or mixed waste may be treated in tanks per day in the 325 HWTUs (T01).

Dangerous and/or mixed waste treatments are generally conducted as small bench-scale operations except for in-tank treatments. Treatment processes utilized at the 325 HWTUs may include the following:

T11 Molten salt destructor
T12 Pyrolysis
T13 Wet air oxidation
T14 Calcination
T15 Microwave discharge
T18 Other thermal treatment
T21 Chemical fixation
T22 Chemical oxidation
T23 Chemical precipitation
T24 Chemical reduction
T25 Chlorination
T26 Chlorinolysis
T27 Cyanide destruction
T28 Degradation
T29 Detoxification
T30 Ion exchange
T31 Neutralization
T32 Ozonation
T33 Photolysis
T34 Other chemical treatment
T35 Centrifugation
T36 Clarification
T37 Coagulation
T38 Decanting
T39 Encapsulation
T40 Filtration
T41 Flocculation
T42 Flotation
T43 Foaming
T44 Sedimentation
T45 Thickening
T46 Ultrafiltration
T47 Other separation technology
T48 Absorption-molecular sieve
T49 Activated carbon
T50 Blending
T51 Catalysis
T52 Crystallization
T53 Dialysis
T54 Distillation
T55 Electrodialysis
T56 Electrolysis
T57 Evaporation
T58 High gradient magnetic separation
T59 Leaching
T60 Liquid ion exchange
T61 Liquid-liquid extraction
T62 Reverse osmosis
T63 Solvent recovery
T64 Stripping
T65 Sand filter
T66 Other removal technology
T67 Activated sludge
T69 Aerobic tank
T70 Anaerobic lagoon or tank
T71 Composting
T74 Thickening filter
T75 Trickling filter
T77 Other biological treatment

IV. DESCRIPTION OF DANGEROUS WASTES

[illegible]

B. [illegible]

C. [illegible]

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

D. Processes

1. Process Codes

[illegible]

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.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that are described by more than one Waste Number shall be described on the form as follows:

1. Select one of the Dangerous Waste Numbers and enter it in Column A. On the same line complete columns B, C and D to describe the total quantity of the waste and detailing all the 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(1) of that line enter "MIXED" in the space provided and make no other entries on that line.

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

Example for Completing Section IV (shown in line numbers X-1, X-2, X-3, and X-4 below). A facility will treat and dispose of an estimated 900 pounds per year of wastes derivings from leather tanning and finishing operation. In addition the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and these will have 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)*	D. Processes 2. Process Description *(if a code is not entered in D(1))*
X-1	K 0 5 4	900	P	T03 D80	
X-2	D 0 0 2	400	P	T03 D80	
X-3	D 0 0 1	100	P	T03 D80	
X-4	D 0 0 2			T03 D80	*included with above*

Photocopy this page before completing if you have more than 26 wastes to list.

). Number *(enter from page 1)*

A	7	8	9	0	0	0	8	9	6	7

IV. DESCRIPTION OF DANGEROUS WASTES *(continued)*

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))*
1	D	0	0	1	82,500*		K		S01	T04			Storage-Container/Treatment-Other
* 60,000 (S01); 22,500 (T04)													
2	D	0	0	2			↓		↓	↓			↓
3	D	0	0	3			↓		↓	↓			↓
4	D	0	0	4			↓		↓	↓			↓
5	D	0	0	5			↓		↓	↓			↓
6	D	0	0	6			↓		↓	↓			↓
7	D	0	0	7			↓		↓	↓			↓
8	D	0	0	8			↓		↓	↓			↓
9	D	0	0	9			↓		↓	↓			↓
10	D	0	1	0			↓		↓	↓			↓
11	D	0	1	1			↓		↓	↓			↓
12	D	0	1	2			↓		↓	↓			↓
13	D	0	1	3			↓		↓	↓			↓
14	D	0	1	4			↓		↓	↓			↓
15	D	0	1	5			↓		↓	↓			↓
16	D	0	1	6			↓		↓	↓			↓
17	D	0	1	7			↓		↓	↓			↓
18	D	0	1	8			↓		↓	↓			↓
19	D	0	1	9			↓		↓	↓			↓
20	D	0	2	0			↓		↓	↓			↓
21	D	0	2	1			↓		↓	↓			↓
22	D	0	2	2			↓		↓	↓			↓
23	D	0	2	3			↓		↓	↓			↓
24	D	0	2	4			↓		↓	↓			↓
25	D	0	2	5			↓		↓	↓			↓
26	D	0	2	6			↓		↓	↓			↓
27	D	0	2	7			↓		↓	↓			↓
28	D	0	2	8			↓		↓	↓			↓
29	D	0	2	9			↓		↓	↓			↓
30	D	0	3	0			↓		↓	↓			↓
31	D	0	3	1			↓		↓	↓			↓
32	D	0	3	2			↓		↓	↓			↓
33	D	0	3	3			↓		↓	↓			↓
34	D	0	3	4			↓		↓	↓			↓
35	D	0	3	5			↓		↓	↓			↓
36	D	0	3	6			↓		↓	↓			↓
37	D	0	3	7			↓		↓	↓			↓
38	D	0	3	8			↓		↓	↓			↓
39	D	0	3	9			↓		↓	↓			↓
40	D	0	4	0			↓		↓	↓			↓
41	D	0	4	1			↓		↓	↓			↓
42	D	0	4	2			↓		↓	↓			↓
43	D	0	4	3			↓		↓	↓			↓
44	F	0	0	1			↓		↓	↓			↓

45	F	0	0	2			↓		↓	↓			↓
46	F	0	0	3			↓		↓	↓			↓
47	F	0	0	4			↓		↓	↓			↓
48	F	0	0	5			↓		↓	↓			↓
49	F	0	2	7			↓		↓	↓			↓
50	F	0	3	9			↓		↓	↓			↓
51	K	0	1	1			↓		↓	↓			↓
52	K	0	1	3			↓		↓	↓			↓
53	K	0	4	8			↓		↓	↓			↓
54	K	0	4	9			↓		↓	↓			↓
55	K	0	5	0			↓		↓	↓			↓
56	K	0	5	1			↓		↓	↓			↓
57	K	0	5	2			↓		↓	↓			↓
58	P	0	0	1			↓		↓	↓			↓
59	P	0	0	2			↓		↓	↓			↓
60	P	0	0	3			↓		↓	↓			↓
61	P	0	0	4			↓		↓	↓			↓
62	P	0	0	5			↓		↓	↓			↓
63	P	0	0	6			↓		↓	↓			↓
64	P	0	0	7			↓		↓	↓			↓
65	P	0	0	8			↓		↓	↓			↓
66	P	0	0	9			↓		↓	↓			↓
67	P	0	1	0			↓		↓	↓			↓
68	P	0	1	1			↓		↓	↓			↓
69	P	0	1	2			↓		↓	↓			↓
70	P	0	1	3			↓		↓	↓			↓
71	P	0	1	4			↓		↓	↓			↓
72	P	0	1	5			↓		↓	↓			↓
73	P	0	1	6			↓		↓	↓			↓
74	P	0	1	7			↓		↓	↓			↓
75	P	0	1	8			↓		↓	↓			↓
76	P	0	2	0			↓		↓	↓			↓
77	P	0	2	1			↓		↓	↓			↓
78	P	0	2	2			↓		↓	↓			↓
79	P	0	2	3			↓		↓	↓			↓
80	P	0	2	4			↓		↓	↓			↓
81	P	0	2	6			↓		↓	↓			↓
82	P	0	2	7			↓		↓	↓			↓
83	P	0	2	8			↓		↓	↓			↓
84	P	0	2	9			↓		↓	↓			↓
85	P	0	3	0			↓		↓	↓			↓
86	P	0	3	1			↓		↓	↓			↓
87	P	0	3	3			↓		↓	↓			↓
88	P	0	3	4			↓		↓	↓			↓
89	P	0	3	6			↓		↓	↓			↓
90	P	0	3	7			↓		↓	↓			↓
91	P	0	3	8			↓		↓	↓			↓
92	P	0	3	9			↓		↓	↓			↓
93	P	0	4	0			↓		↓	↓			↓
94	P	0	4	1			↓		↓	↓			↓
95	P	0	4	2			↓		↓	↓			↓
96	P	0	4	3			↓		↓	↓			↓
97	P	0	4	4			↓		↓	↓			↓
98	P	0	4	5			↓		↓	↓			↓
99	P	0	4	6			↓		↓	↓			↓
100	P	0	4	7			↓		↓	↓			↓
101	P	0	4	8			↓		↓	↓			↓
102	P	0	4	9			↓		↓	↓			↓

103	P	0	5	0			↓		↓	↓			↓
104	P	0	5	1			↓		↓	↓			↓
105	P	0	5	4			↓		↓	↓			↓
106	P	0	5	6			↓		↓	↓			↓
107	P	0	5	7			↓		↓	↓			↓
108	P	0	5	8			↓		↓	↓			↓
109	P	0	5	9			↓		↓	↓			↓
110	P	0	6	0			↓		↓	↓			↓
111	P	0	6	2			↓		↓	↓			↓
112	P	0	6	3			↓		↓	↓			↓
113	P	0	6	4			↓		↓	↓			↓
114	P	0	6	5			↓		↓	↓			↓
115	P	0	6	6			↓		↓	↓			↓
116	P	0	6	7			↓		↓	↓			↓
117	P	0	6	8			↓		↓	↓			↓
118	P	0	6	9			↓		↓	↓			↓
119	P	0	7	0			↓		↓	↓			↓
120	P	0	7	1			↓		↓	↓			↓
121	P	0	7	2			↓		↓	↓			↓
122	P	0	7	3			↓		↓	↓			↓
123	P	0	7	4			↓		↓	↓			↓
124	P	0	7	5			↓		↓	↓			↓
125	P	0	7	6			↓		↓	↓			↓
126	P	0	7	7			↓		↓	↓			↓
127	P	0	7	8			↓		↓	↓			↓
128	P	0	8	1			↓		↓	↓			↓
129	P	0	8	2			↓		↓	↓			↓
130	P	0	8	4			↓		↓	↓			↓
131	P	0	8	5			↓		↓	↓			↓
132	P	0	8	7			↓		↓	↓			↓
133	P	0	8	8			↓		↓	↓			↓
134	P	0	8	9			↓		↓	↓			↓
135	P	0	9	2			↓		↓	↓			↓
136	P	0	9	3			↓		↓	↓			↓
137	P	0	9	4			↓		↓	↓			↓
138	P	0	9	5			↓		↓	↓			↓
139	P	0	9	6			↓		↓	↓			↓
140	P	0	9	7			↓		↓	↓			↓
141	P	0	9	8			↓		↓	↓			↓
142	P	0	9	9			↓		↓	↓			↓
143	P	1	0	1			↓		↓	↓			↓
144	P	1	0	2			↓		↓	↓			↓
145	P	1	0	3			↓		↓	↓			↓
146	P	1	0	4			↓		↓	↓			↓
147	P	1	0	5			↓		↓	↓			↓
148	P	1	0	6			↓		↓	↓			↓
149	P	1	0	8			↓		↓	↓			↓
150	P	1	0	9			↓		↓	↓			↓
151	P	1	1	0			↓		↓	↓			↓
152	P	1	1	1			↓		↓	↓			↓
153	P	1	1	2			↓		↓	↓			↓
154	P	1	1	3			↓		↓	↓			↓
155	P	1	1	4			↓		↓	↓			↓
156	P	1	1	5			↓		↓	↓			↓
157	P	1	1	6			↓		↓	↓			↓
158	P	1	1	8			↓		↓	↓			↓
159	P	1	1	9			↓		↓	↓			↓
160	P	1	2	0			↓		↓	↓			↓

161	P	1	2	1			↓		↓	↓			↓
162	P	1	2	2			↓		↓	↓			↓
163	P	1	2	3			↓		↓	↓			↓
164	P	1	2	7			↓		↓	↓			↓
165	P	1	2	8			↓		↓	↓			↓
166	P	1	8	5			↓		↓	↓			↓
167	P	1	8	8			↓		↓	↓			↓
168	P	1	8	9			↓		↓	↓			↓
169	P	1	9	0			↓		↓	↓			↓
170	P	1	9	1			↓		↓	↓			↓
171	P	1	9	2			↓		↓	↓			↓
172	P	1	9	4			↓		↓	↓			↓
173	P	1	9	6			↓		↓	↓			↓
174	P	1	9	7			↓		↓	↓			↓
175	P	1	9	8			↓		↓	↓			↓
176	P	1	9	9			↓		↓	↓			↓
177	P	2	0	1			↓		↓	↓			↓
178	P	2	0	2			↓		↓	↓			↓
179	P	2	0	3			↓		↓	↓			↓
180	P	2	0	4			↓		↓	↓			↓
181	P	2	0	5			↓		↓	↓			↓
182	U	0	0	1			↓		↓	↓			↓
183	U	0	0	2			↓		↓	↓			↓
184	U	0	0	3			↓		↓	↓			↓
185	U	0	0	4			↓		↓	↓			↓
186	U	0	0	5			↓		↓	↓			↓
187	U	0	0	6			↓		↓	↓			↓
188	U	0	0	7			↓		↓	↓			↓
189	U	0	0	8			↓		↓	↓			↓
190	U	0	0	9			↓		↓	↓			↓
191	U	0	1	0			↓		↓	↓			↓
192	U	0	1	1			↓		↓	↓			↓
193	U	0	1	2			↓		↓	↓			↓
194	U	0	1	4			↓		↓	↓			↓
195	U	0	1	5			↓		↓	↓			↓
196	U	0	1	6			↓		↓	↓			↓
197	U	0	1	7			↓		↓	↓			↓
198	U	0	1	8			↓		↓	↓			↓
199	U	0	1	9			↓		↓	↓			↓
200	U	0	2	0			↓		↓	↓			↓
201	U	0	2	1			↓		↓	↓			↓
202	U	0	2	2			↓		↓	↓			↓
203	U	0	2	3			↓		↓	↓			↓
204	U	0	2	4			↓		↓	↓			↓
205	U	0	2	5			↓		↓	↓			↓
206	U	0	2	6			↓		↓	↓			↓
207	U	0	2	7			↓		↓	↓			↓
208	U	0	2	8			↓		↓	↓			↓
209	U	0	2	9			↓		↓	↓			↓
210	U	0	3	0			↓		↓	↓			↓
211	U	0	3	1			↓		↓	↓			↓
212	U	0	3	2			↓		↓	↓			↓
213	U	0	3	3			↓		↓	↓			↓
214	U	0	3	4			↓		↓	↓			↓
215	U	0	3	5			↓		↓	↓			↓
216	U	0	3	6			↓		↓	↓			↓
217	U	0	3	7			↓		↓	↓			↓
218	U	0	3	8			↓		↓	↓			↓

219	U	0	3	9			↓		↓	↓			↓
220	U	0	4	1			↓		↓	↓			↓
221	U	0	4	2			↓		↓	↓			↓
222	U	0	4	3			↓		↓	↓			↓
223	U	0	4	4			↓		↓	↓			↓
224	U	0	4	5			↓		↓	↓			↓
225	U	0	4	6			↓		↓	↓			↓
226	U	0	4	7			↓		↓	↓			↓
227	U	0	4	8			↓		↓	↓			↓
228	U	0	4	9			↓		↓	↓			↓
229	U	0	5	0			↓		↓	↓			↓
230	U	0	5	1			↓		↓	↓			↓
231	U	0	5	2			↓		↓	↓			↓
232	U	0	5	3			↓		↓	↓			↓
233	U	0	5	5			↓		↓	↓			↓
234	U	0	5	6			↓		↓	↓			↓
235	U	0	5	7			↓		↓	↓			↓
236	U	0	5	8			↓		↓	↓			↓
237	U	0	5	9			↓		↓	↓			↓
238	U	0	6	0			↓		↓	↓			↓
239	U	0	6	1			↓		↓	↓			↓
240	U	0	6	2			↓		↓	↓			↓
241	U	0	6	3			↓		↓	↓			↓
242	U	0	6	4			↓		↓	↓			↓
243	U	0	6	6			↓		↓	↓			↓
244	U	0	6	7			↓		↓	↓			↓
245	U	0	6	8			↓		↓	↓			↓
246	U	0	6	9			↓		↓	↓			↓
247	U	0	7	0			↓		↓	↓			↓
248	U	0	7	1			↓		↓	↓			↓
249	U	0	7	2			↓		↓	↓			↓
250	U	0	7	3			↓		↓	↓			↓
251	U	0	7	4			↓		↓	↓			↓
252	U	0	7	5			↓		↓	↓			↓
253	U	0	7	6			↓		↓	↓			↓
254	U	0	7	7			↓		↓	↓			↓
255	U	0	7	8			↓		↓	↓			↓
256	U	0	7	9			↓		↓	↓			↓
257	U	0	8	0			↓		↓	↓			↓
258	U	0	8	1			↓		↓	↓			↓
259	U	0	8	2			↓		↓	↓			↓
260	U	0	8	3			↓		↓	↓			↓
261	U	0	8	4			↓		↓	↓			↓
262	U	0	8	5			↓		↓	↓			↓
263	U	0	8	6			↓		↓	↓			↓
264	U	0	8	7			↓		↓	↓			↓
265	U	0	8	8			↓		↓	↓			↓
266	U	0	8	9			↓		↓	↓			↓
267	U	0	9	0			↓		↓	↓			↓
268	U	0	9	1			↓		↓	↓			↓
269	U	0	9	2			↓		↓	↓			↓
270	U	0	9	3			↓		↓	↓			↓
271	U	0	9	4			↓		↓	↓			↓
272	U	0	9	5			↓		↓	↓			↓
273	U	0	9	6			↓		↓	↓			↓
274	U	0	9	7			↓		↓	↓			↓
275	U	0	9	8			↓		↓	↓			↓
276	U	0	9	9			↓		↓	↓			↓

277	U	1	0	1			↓		↓	↓			↓
278	U	1	0	2			↓		↓	↓			↓
279	U	1	0	3			↓		↓	↓			↓
280	U	1	0	5			↓		↓	↓			↓
281	U	1	0	6			↓		↓	↓			↓
282	U	1	0	7			↓		↓	↓			↓
283	U	1	0	8			↓		↓	↓			↓
284	U	1	0	9			↓		↓	↓			↓
285	U	1	1	0			↓		↓	↓			↓
286	U	1	1	1			↓		↓	↓			↓
287	U	1	1	2			↓		↓	↓			↓
288	U	1	1	3			↓		↓	↓			↓
289	U	1	1	4			↓		↓	↓			↓
290	U	1	1	5			↓		↓	↓			↓
291	U	1	1	6			↓		↓	↓			↓
292	U	1	1	7			↓		↓	↓			↓
293	U	1	1	8			↓		↓	↓			↓
294	U	1	1	9			↓		↓	↓			↓
295	U	1	2	0			↓		↓	↓			↓
296	U	1	2	1			↓		↓	↓			↓
297	U	1	2	2			↓		↓	↓			↓
298	U	1	2	3			↓		↓	↓			↓
299	U	1	2	4			↓		↓	↓			↓
300	U	1	2	5			↓		↓	↓			↓
301	U	1	2	6			↓		↓	↓			↓
302	U	1	2	7			↓		↓	↓			↓
303	U	1	2	8			↓		↓	↓			↓
304	U	1	2	9			↓		↓	↓			↓
305	U	1	3	0			↓		↓	↓			↓
306	U	1	3	1			↓		↓	↓			↓
307	U	1	3	2			↓		↓	↓			↓
308	U	1	3	3			↓		↓	↓			↓
309	U	1	3	4			↓		↓	↓			↓
310	U	1	3	5			↓		↓	↓			↓
311	U	1	3	6			↓		↓	↓			↓
312	U	1	3	7			↓		↓	↓			↓
313	U	1	3	8			↓		↓	↓			↓
314	U	1	4	0			↓		↓	↓			↓
315	U	1	4	1			↓		↓	↓			↓
316	U	1	4	2			↓		↓	↓			↓
317	U	1	4	3			↓		↓	↓			↓
318	U	1	4	4			↓		↓	↓			↓
319	U	1	4	5			↓		↓	↓			↓
320	U	1	4	6			↓		↓	↓			↓
321	U	1	4	7			↓		↓	↓			↓
322	U	1	4	8			↓		↓	↓			↓
323	U	1	4	9			↓		↓	↓			↓
324	U	1	5	0			↓		↓	↓			↓
325	U	1	5	1			↓		↓	↓			↓
326	U	1	5	2			↓		↓	↓			↓
327	U	1	5	3			↓		↓	↓			↓
328	U	1	5	4			↓		↓	↓			↓
329	U	1	5	5			↓		↓	↓			↓
330	U	1	5	6			↓		↓	↓			↓
331	U	1	5	7			↓		↓	↓			↓
332	U	1	5	8			↓		↓	↓			↓
333	U	1	5	9			↓		↓	↓			↓
334	U	1	6	0			↓		↓	↓			↓

335	U	1	6	1			↓		↓	↓			↓
336	U	1	6	2			↓		↓	↓			↓
337	U	1	6	3			↓		↓	↓			↓
338	U	1	6	4			↓		↓	↓			↓
339	U	1	6	5			↓		↓	↓			↓
340	U	1	6	6			↓		↓	↓			↓
341	U	1	6	7			↓		↓	↓			↓
342	U	1	6	8			↓		↓	↓			↓
343	U	1	6	9			↓		↓	↓			↓
344	U	1	7	0			↓		↓	↓			↓
345	U	1	7	1			↓		↓	↓			↓
346	U	1	7	2			↓		↓	↓			↓
347	U	1	7	3			↓		↓	↓			↓
348	U	1	7	4			↓		↓	↓			↓
349	U	1	7	6			↓		↓	↓			↓
350	U	1	7	7			↓		↓	↓			↓
351	U	1	7	8			↓		↓	↓			↓
352	U	1	7	9			↓		↓	↓			↓
353	U	1	8	0			↓		↓	↓			↓
354	U	1	8	1			↓		↓	↓			↓
355	U	1	8	2			↓		↓	↓			↓
356	U	1	8	3			↓		↓	↓			↓
357	U	1	8	4			↓		↓	↓			↓
358	U	1	8	5			↓		↓	↓			↓
359	U	1	8	6			↓		↓	↓			↓
360	U	1	8	7			↓		↓	↓			↓
361	U	1	8	8			↓		↓	↓			↓
362	U	1	8	9			↓		↓	↓			↓
363	U	1	9	0			↓		↓	↓			↓
364	U	1	9	1			↓		↓	↓			↓
365	U	1	9	2			↓		↓	↓			↓
366	U	1	9	3			↓		↓	↓			↓
367	U	1	9	4			↓		↓	↓			↓
368	U	1	9	6			↓		↓	↓			↓
369	U	1	9	7			↓		↓	↓			↓
370	U	2	0	0			↓		↓	↓			↓
371	U	2	0	1			↓		↓	↓			↓
372	U	2	0	2			↓		↓	↓			↓
373	U	2	0	3			↓		↓	↓			↓
374	U	2	0	4			↓		↓	↓			↓
375	U	2	0	5			↓		↓	↓			↓
376	U	2	0	6			↓		↓	↓			↓
377	U	2	0	7			↓		↓	↓			↓
378	U	2	0	8			↓		↓	↓			↓
379	U	2	0	9			↓		↓	↓			↓
380	U	2	1	0			↓		↓	↓			↓
381	U	2	1	1			↓		↓	↓			↓
382	U	2	1	3			↓		↓	↓			↓
383	U	2	1	4			↓		↓	↓			↓
384	U	2	1	5			↓		↓	↓			↓
385	U	2	1	6			↓		↓	↓			↓
386	U	2	1	7			↓		↓	↓			↓
387	U	2	1	8			↓		↓	↓			↓
388	U	2	1	9			↓		↓	↓			↓
389	U	2	2	0			↓		↓	↓			↓
390	U	2	2	1			↓		↓	↓			↓
391	U	2	2	2			↓		↓	↓			↓
392	U	2	2	3			↓		↓	↓			↓

393	U	2	2	5			↓		↓	↓			↓
394	U	2	2	6			↓		↓	↓			↓
395	U	2	2	7			↓		↓	↓			↓
396	U	2	2	8			↓		↓	↓			↓
397	U	2	3	4			↓		↓	↓			↓
398	U	2	3	5			↓		↓	↓			↓
399	U	2	3	6			↓		↓	↓			↓
400	U	2	3	7			↓		↓	↓			↓
401	U	2	3	8			↓		↓	↓			↓
402	U	2	3	9			↓		↓	↓			↓
403	U	2	4	0			↓		↓	↓			↓
404	U	2	4	3			↓		↓	↓			↓
405	U	2	4	4			↓		↓	↓			↓
406	U	2	4	6			↓		↓	↓			↓
407	U	2	4	7			↓		↓	↓			↓
408	U	2	4	8			↓		↓	↓			↓
409	U	2	4	9			↓		↓	↓			↓
410	U	2	7	1			↓		↓	↓			↓
411	U	2	7	7			↓		↓	↓			↓
412	U	2	7	8			↓		↓	↓			↓
413	U	2	7	9			↓		↓	↓			↓
414	U	2	8	0			↓		↓	↓			↓
415	U	3	2	8			↓		↓	↓			↓
416	U	3	5	3			↓		↓	↓			↓
417	U	3	5	9			↓		↓	↓			↓
418	U	3	6	4			↓		↓	↓			↓
419	U	3	6	5			↓		↓	↓			↓
420	U	3	6	6			↓		↓	↓			↓
421	U	3	6	7			↓		↓	↓			↓
422	U	3	7	2			↓		↓	↓			↓
423	U	3	7	3			↓		↓	↓			↓
424	U	3	7	5			↓		↓	↓			↓
425	U	3	7	6			↓		↓	↓			↓
426	U	3	7	7			↓		↓	↓			↓
427	U	3	7	8			↓		↓	↓			↓
428	U	3	7	9			↓		↓	↓			↓
429	U	3	8	1			↓		↓	↓			↓
430	U	3	8	2			↓		↓	↓			↓
431	U	3	8	3			↓		↓	↓			↓
432	U	3	8	4			↓		↓	↓			↓
433	U	3	8	5			↓		↓	↓			↓
434	U	3	8	6			↓		↓	↓			↓
435	U	3	8	7			↓		↓	↓			↓
436	U	3	8	9			↓		↓	↓			↓
437	U	3	9	0			↓		↓	↓			↓
438	U	3	9	1			↓		↓	↓			↓
439	U	3	9	2			↓		↓	↓			↓
440	U	3	9	3			↓		↓	↓			↓
441	U	3	9	4			↓		↓	↓			↓
442	U	3	9	5			↓		↓	↓			↓
443	U	3	9	6			↓		↓	↓			↓
444	U	4	0	0			↓		↓	↓			↓
445	U	4	0	1			↓		↓	↓			↓
446	U	4	0	2			↓		↓	↓			↓
447	U	4	0	3			↓		↓	↓			↓
448	U	4	0	4			↓		↓	↓			↓
449	U	4	0	7			↓		↓	↓			↓
450	U	4	0	9			↓		↓	↓			↓

451	U	4	1	0			↓		↓	↓			↓
452	U	4	1	1			↓		↓	↓			↓
453	W	T	0	1			↓		↓	↓			↓
454	W	T	0	2			↓		↓	↓			↓
455	W	P	0	1			↓		↓	↓			↓
456	W	P	0	2			↓		↓	↓			↓
457	W	P	0	3			↓		↓	↓			↓
458	W	S	C	2			↓		↓	↓			Included With Above
459	D	0	0	1	80,000		K		S02	T01			Storage-Tank/Treatment-Tank
460	D	0	0	2			↓		↓	↓			↓
461	D	0	0	3			↓		↓	↓			↓
462	D	0	0	4			↓		↓	↓			↓
463	D	0	0	5			↓		↓	↓			↓
464	D	0	0	6			↓		↓	↓			↓
465	D	0	0	7			↓		↓	↓			↓
466	D	0	0	8			↓		↓	↓			↓
467	D	0	0	9			↓		↓	↓			↓
468	D	0	1	0			↓		↓	↓			↓
469	D	0	1	1			↓		↓	↓			↓
470	D	0	1	8			↓		↓	↓			↓
471	D	0	1	9			↓		↓	↓			↓
472	D	0	2	2			↓		↓	↓			↓
473	D	0	2	8			↓		↓	↓			↓
474	D	0	2	9			↓		↓	↓			↓
475	D	0	3	0			↓		↓	↓			↓
476	D	0	3	3			↓		↓	↓			↓
477	D	0	3	4			↓		↓	↓			↓
478	D	0	3	5			↓		↓	↓			↓
479	D	0	3	6			↓		↓	↓			↓
480	D	0	3	8			↓		↓	↓			↓
481	D	0	3	9			↓		↓	↓			↓
482	D	0	4	0			↓		↓	↓			↓
483	D	0	4	1			↓		↓	↓			↓
484	D	0	4	3			↓		↓	↓			↓
485	W	T	0	1			↓		↓	↓			↓
486	W	T	0	2			↓		↓	↓			↓
487	W	P	0	1			↓		↓	↓			↓
488	W	P	0	2			↓		↓	↓			↓
489	W	S	C	2			↓		↓	↓			↓
490	F	0	0	1			↓		↓	↓			↓
491	F	0	0	2			↓		↓	↓			↓
492	F	0	0	3			↓		↓	↓			↓
493	F	0	0	4			↓		↓	↓			↓
494	F	0	0	5			↓		↓	↓			↓
495	F	0	3	9			↓		↓	↓			Included With Above
496													
497													
498													
499													
500													

E. Use this space to list additional process codes from Section D(1) on page 3.

Routine dangerous and/or mixed waste treatment that will be conducted in the 325 HWTUs will include pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, solvent extraction, solids washing, phase separation, catalytic destruction, and solidification/stabilization. These waste treatments will be conducted on small quantities of diverse radioactive, dangerous and/or mixed wastes generated from ongoing research and development and anayltical chemistry activities. Waste to be handled in the 325 HWTUs will include listed waste, waste from non-specific sources, characteristic waste, and state-only criteria waste. Multi-source leachate (F039) is included as a waste derived from non-specific source waste F001 through F005.

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
Lloyd L. Piper, Acting Manager U.S. Department of Energy Richland Operations Office	LL Piper Revision 4 signed 06/30/97	06/29/2000

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		

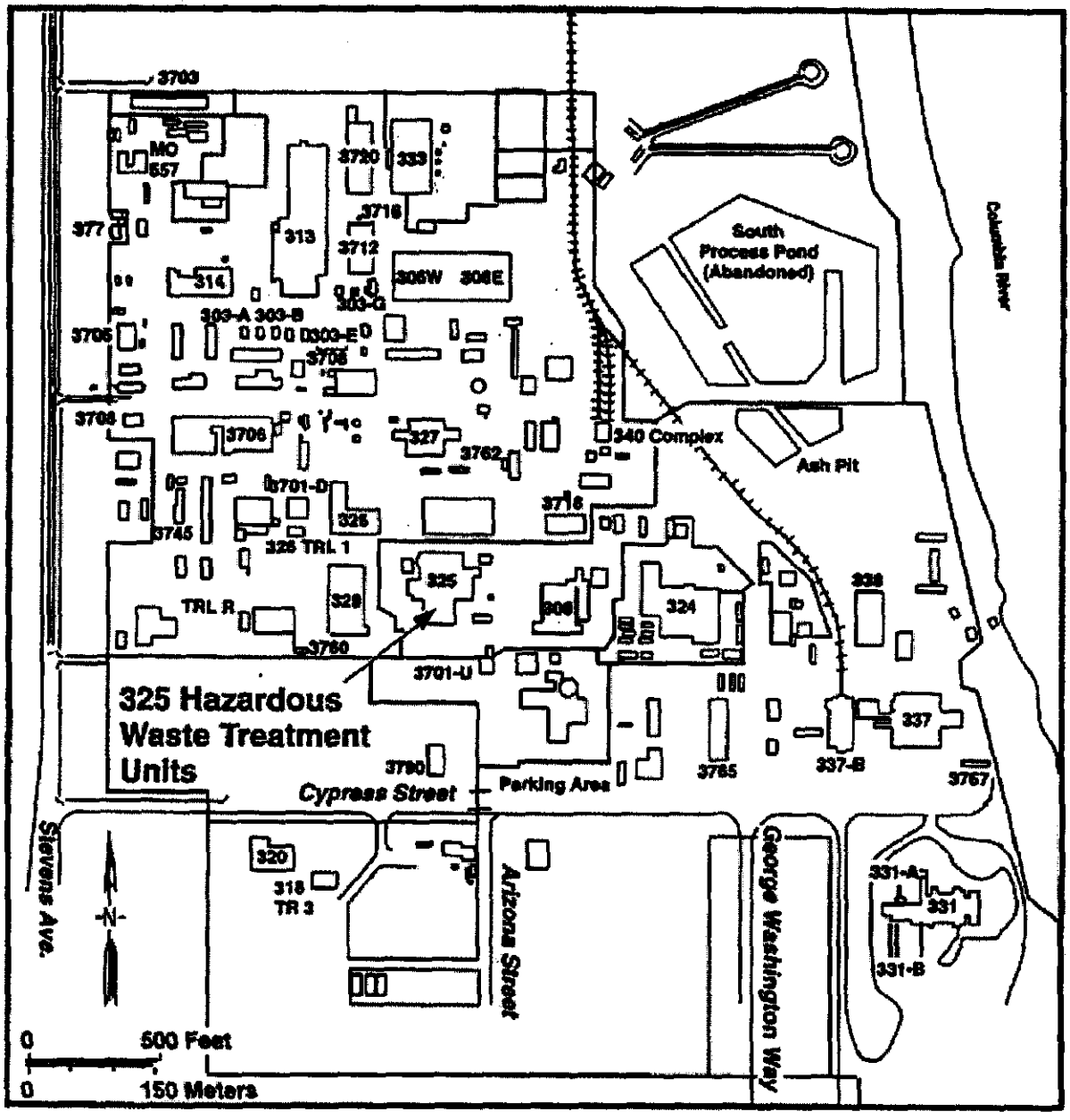
X. OPERATOR CERTIFICATION

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.

Lloyd L Pipper (Revision 4 signed 06/30/97) 6/29/00
Owner/Operator Date
Lloyd L Pipper, Acting Manager
U.S. Department of Energy
Richland Operations Office

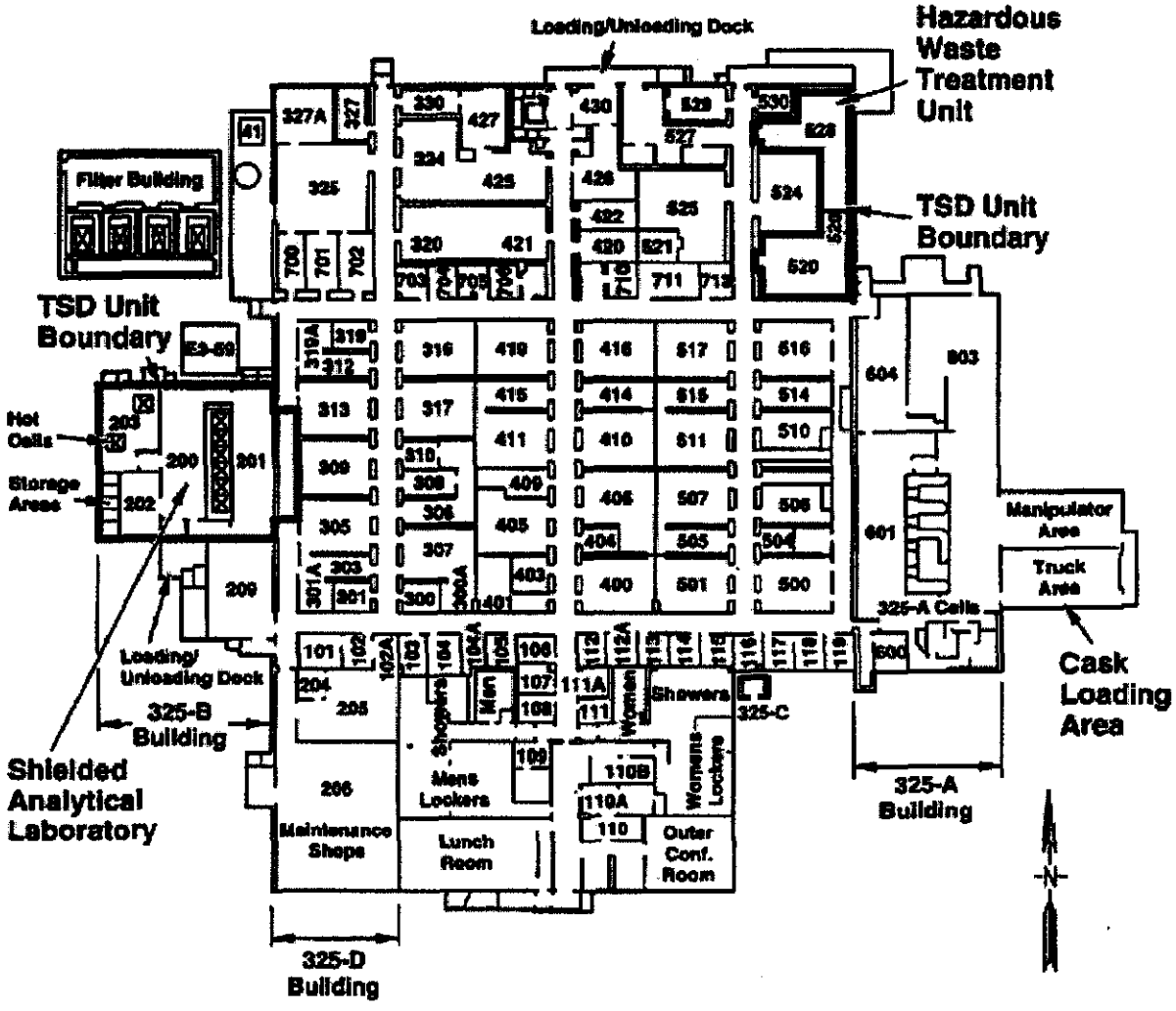
William J. Madia (Revision 4 signed 06/26/97) 6/23/00
Co-Operator Date
William J. Madia, Director
Pacific Northwest national Laboratory

Location of the 325 Hazardous Waste Treatment Units in the 300 Area.



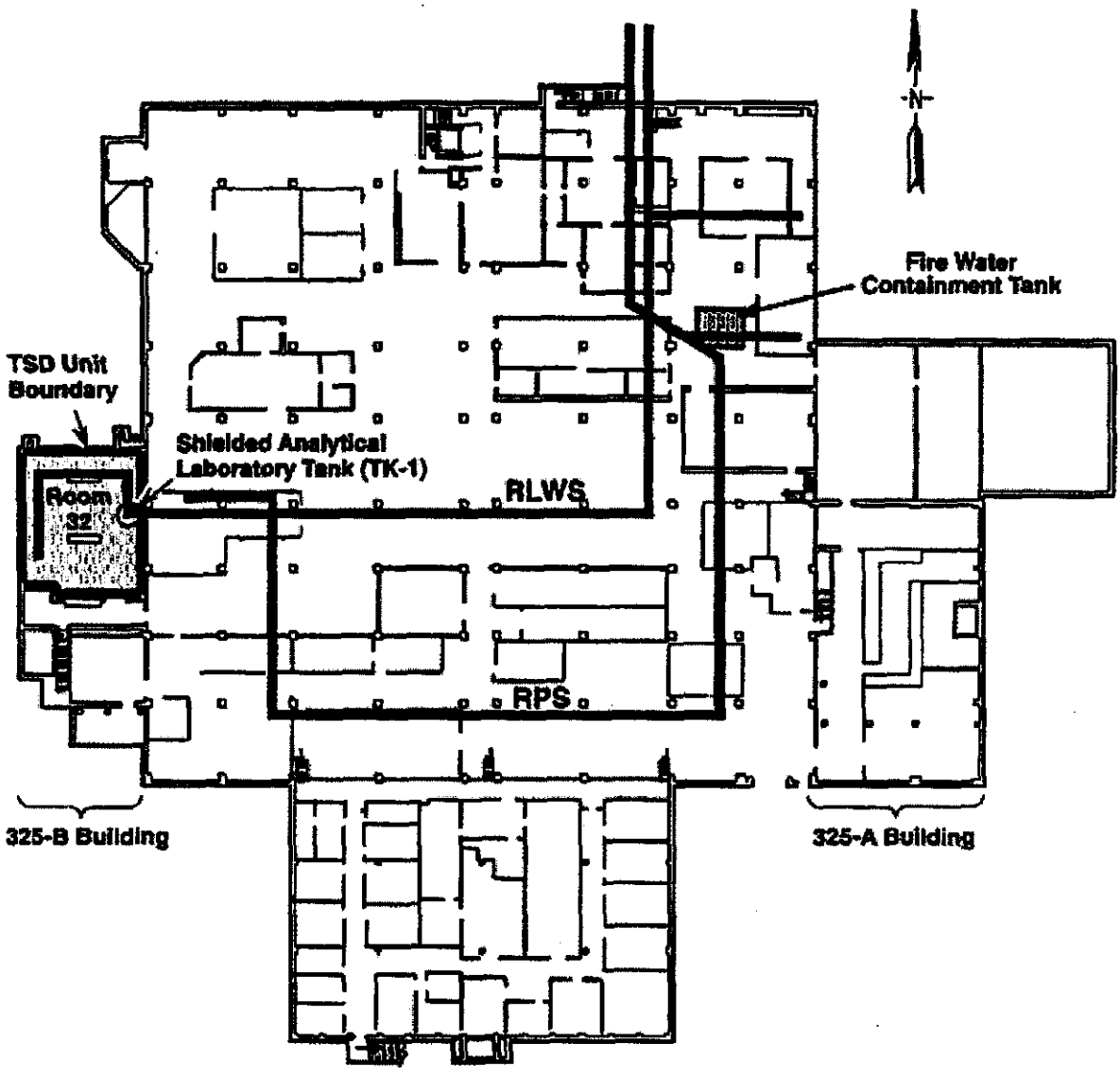
SG97030295.4

Location of the Hazardous Waste Treatment Unit and Shielded Analytical Laboratory (main floor).



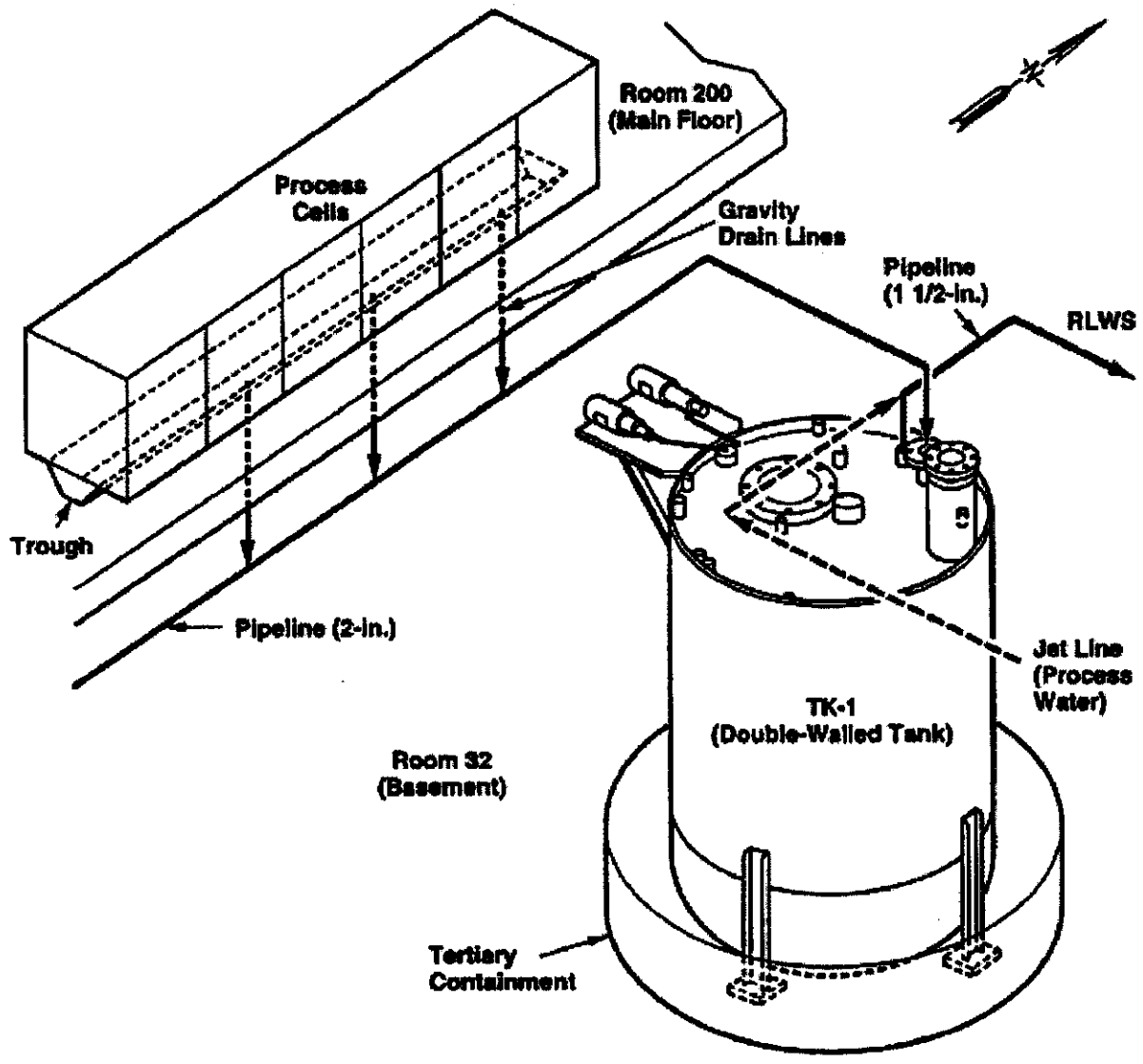
H9508027.1a

Location of Shielded Analytical Laboratory Tank in Room 32 and Location of 325 Collection/Loadout Station Tank (basement) of the 325 Building.



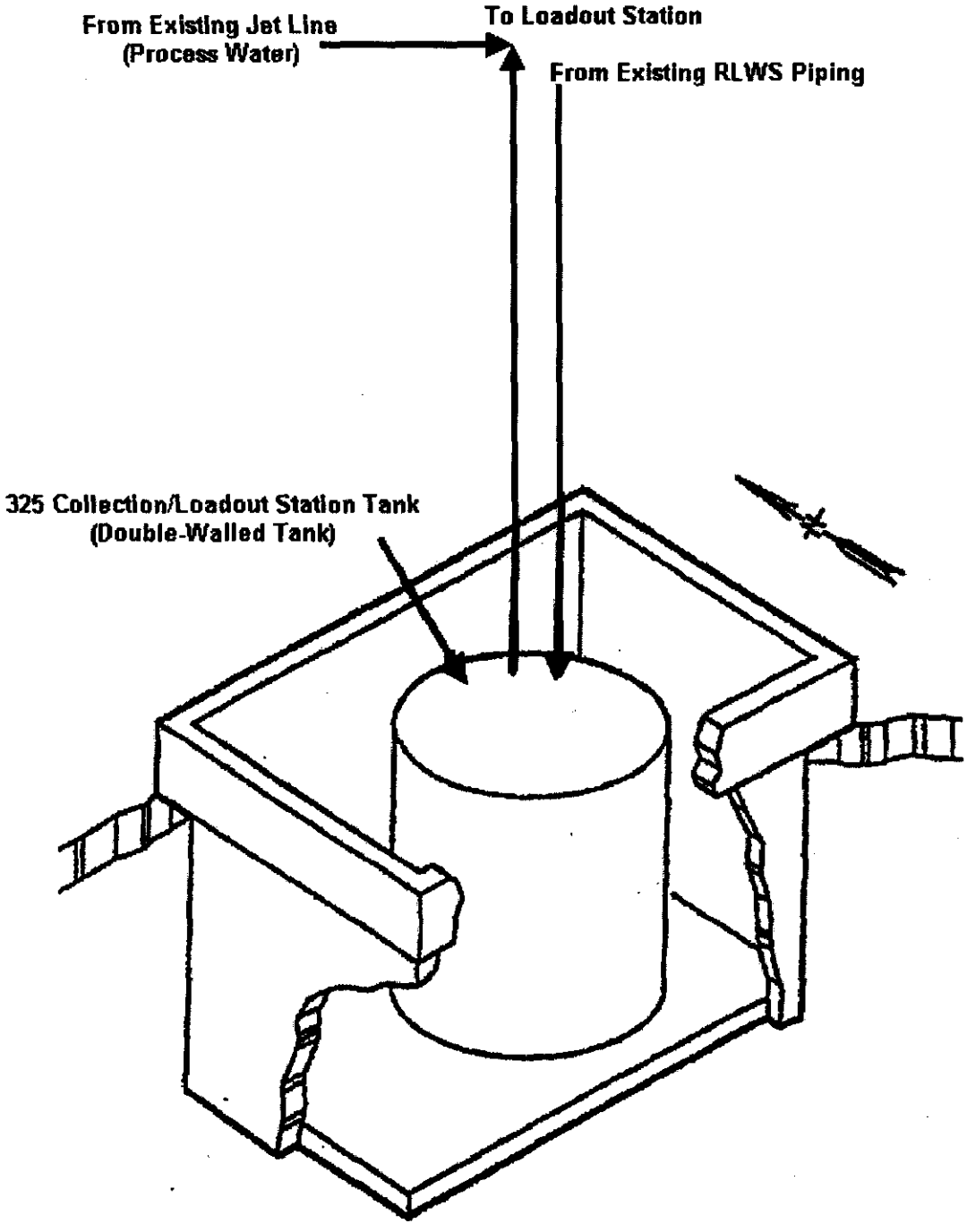
SG97030295.2

Shielded Analytical Laboratory Tank and Ancillary Piping



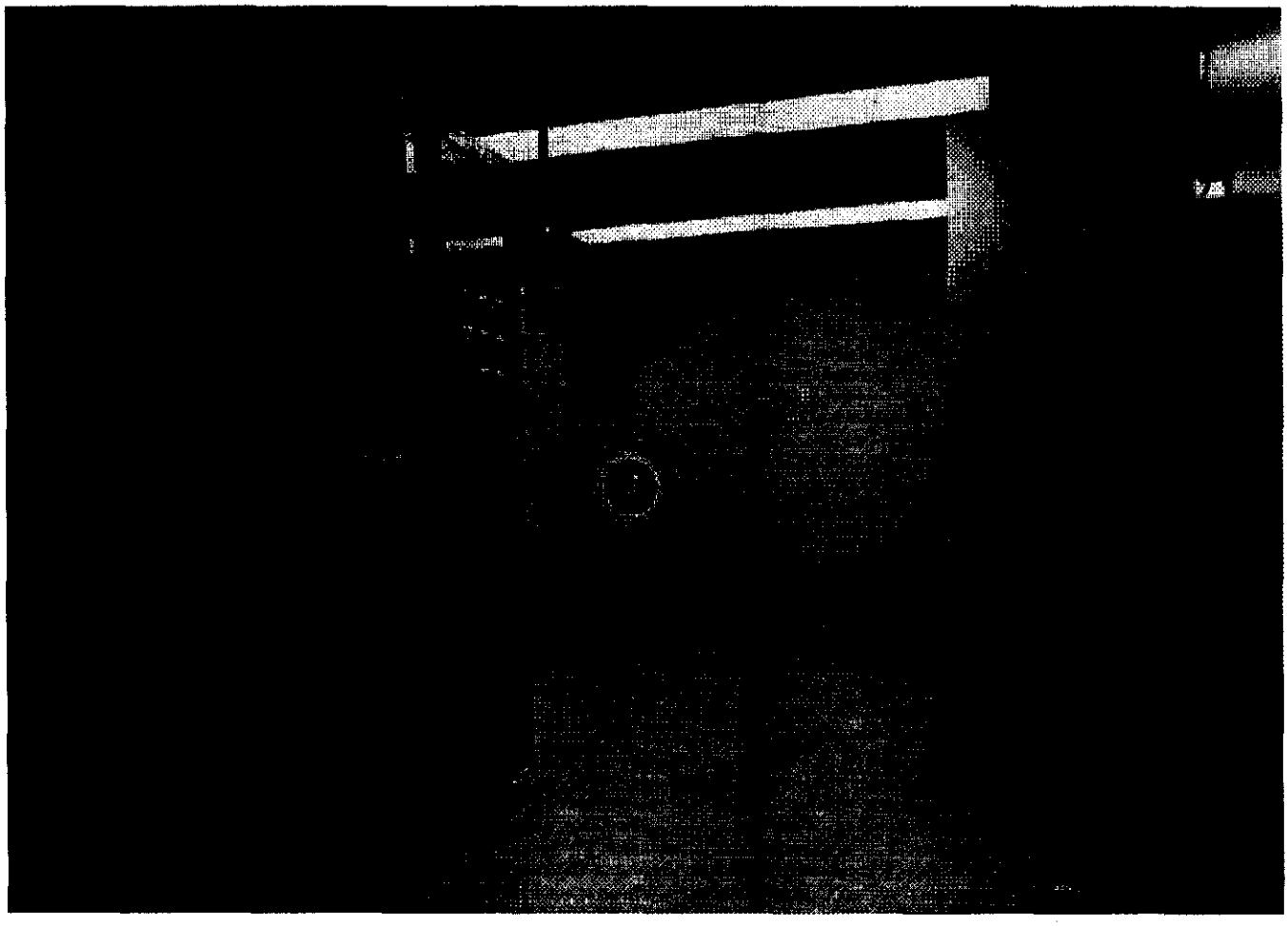
H9508027.2

325 Collection/Loadout Station Tank.



loadout

325 HAZARDOUS WASTE TREATMENT UNITS

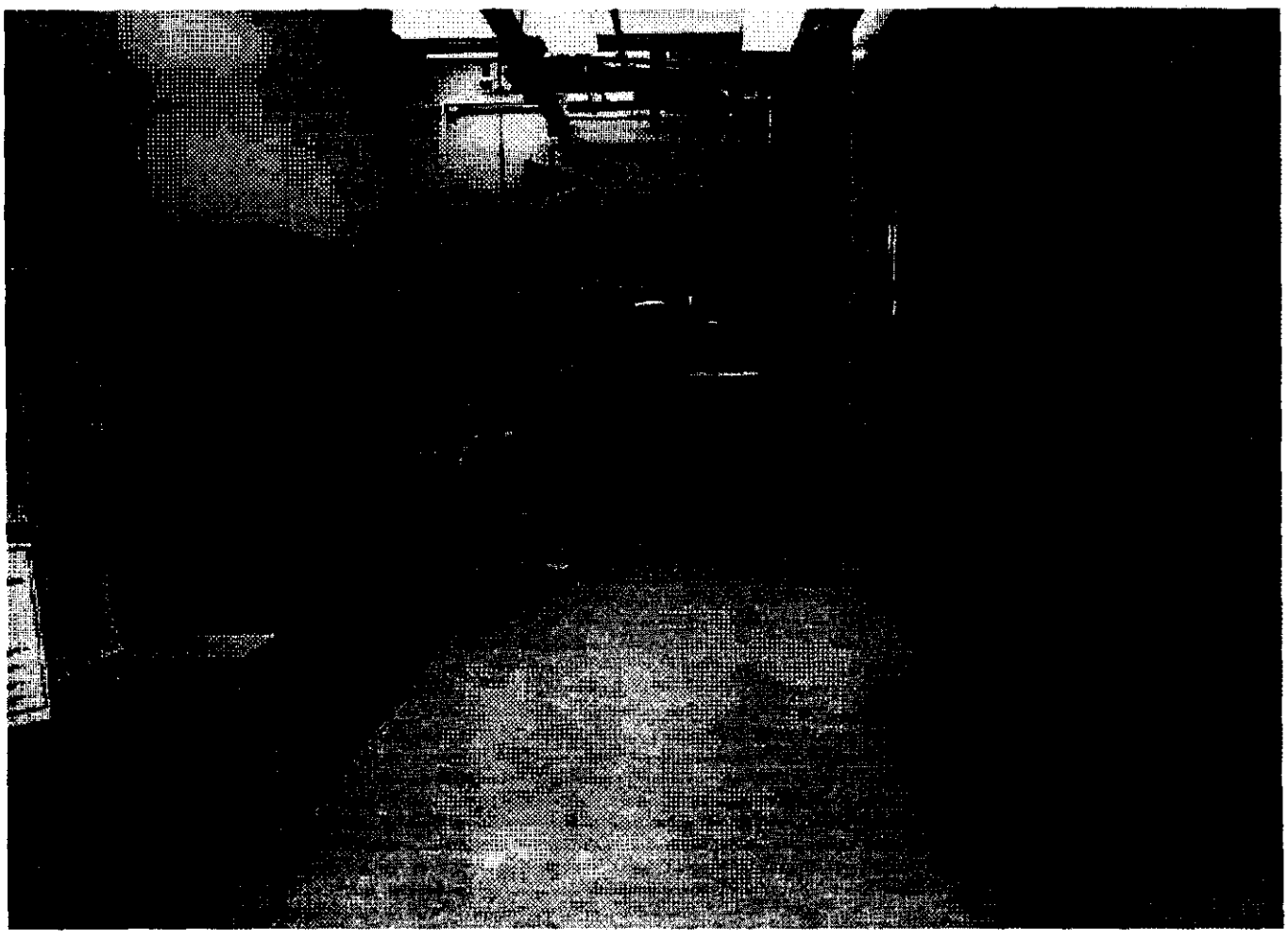


325 Hazardous Waste Treatment Units
Room 528

46°22'6.8"
119°16'42"

96010398-22CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS

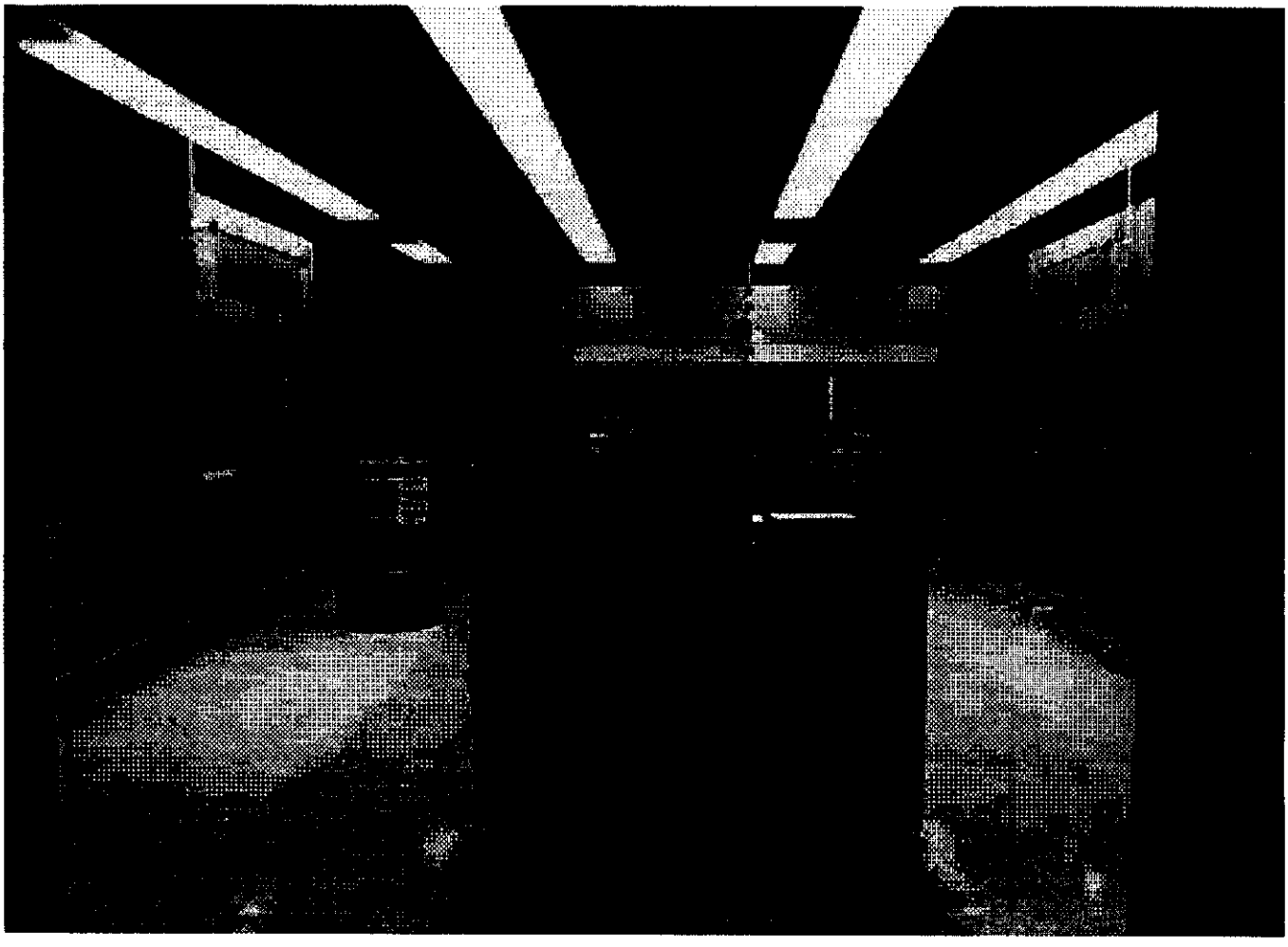


325 Hazardous Waste Treatment Units
Room 528

46°22'6.8"
119°16'42"

96010398-20CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS

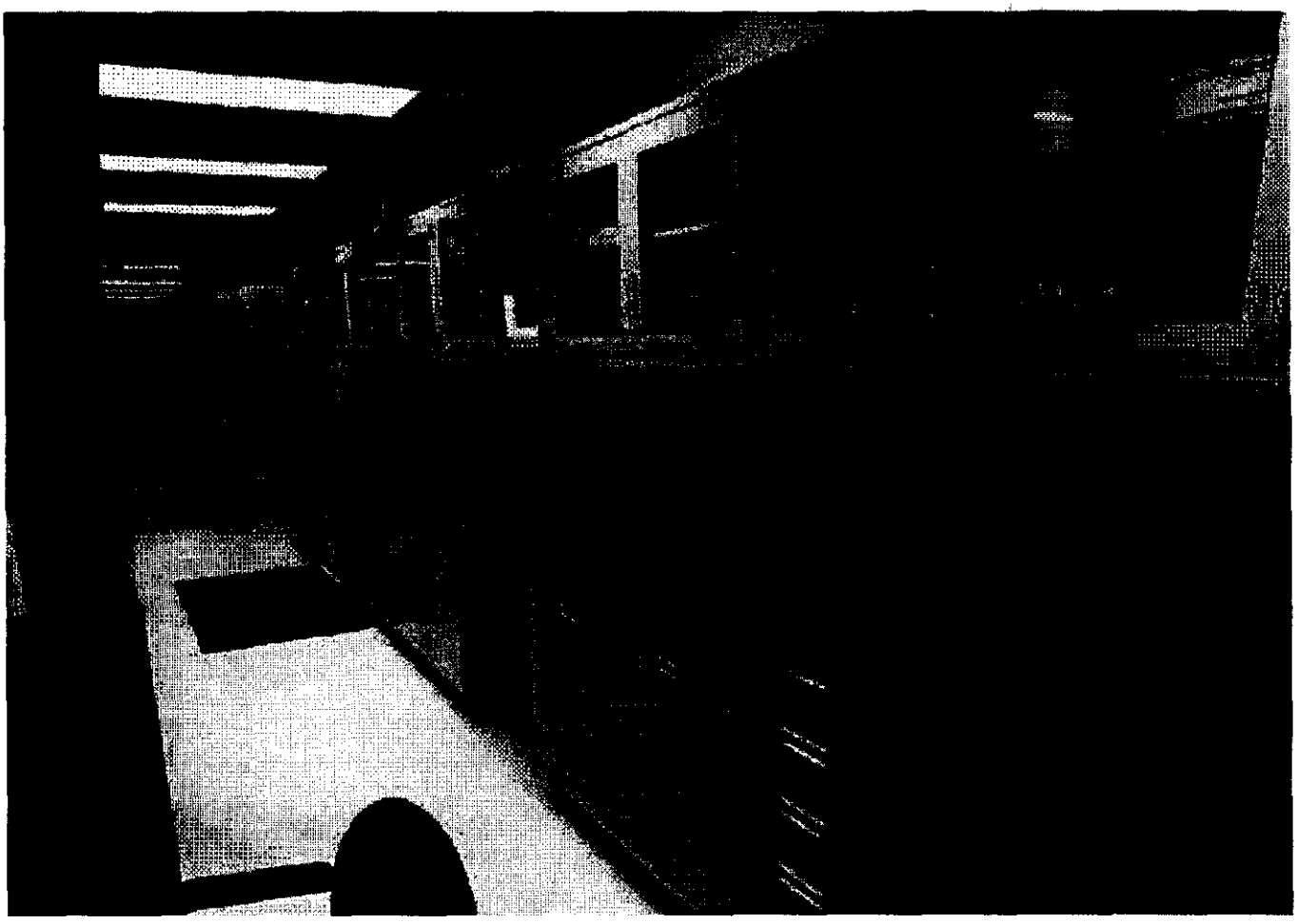


325 Hazardous Waste Treatment Unit
Room 520

46°22'6.8"
119°16'42"

96010398-17CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS

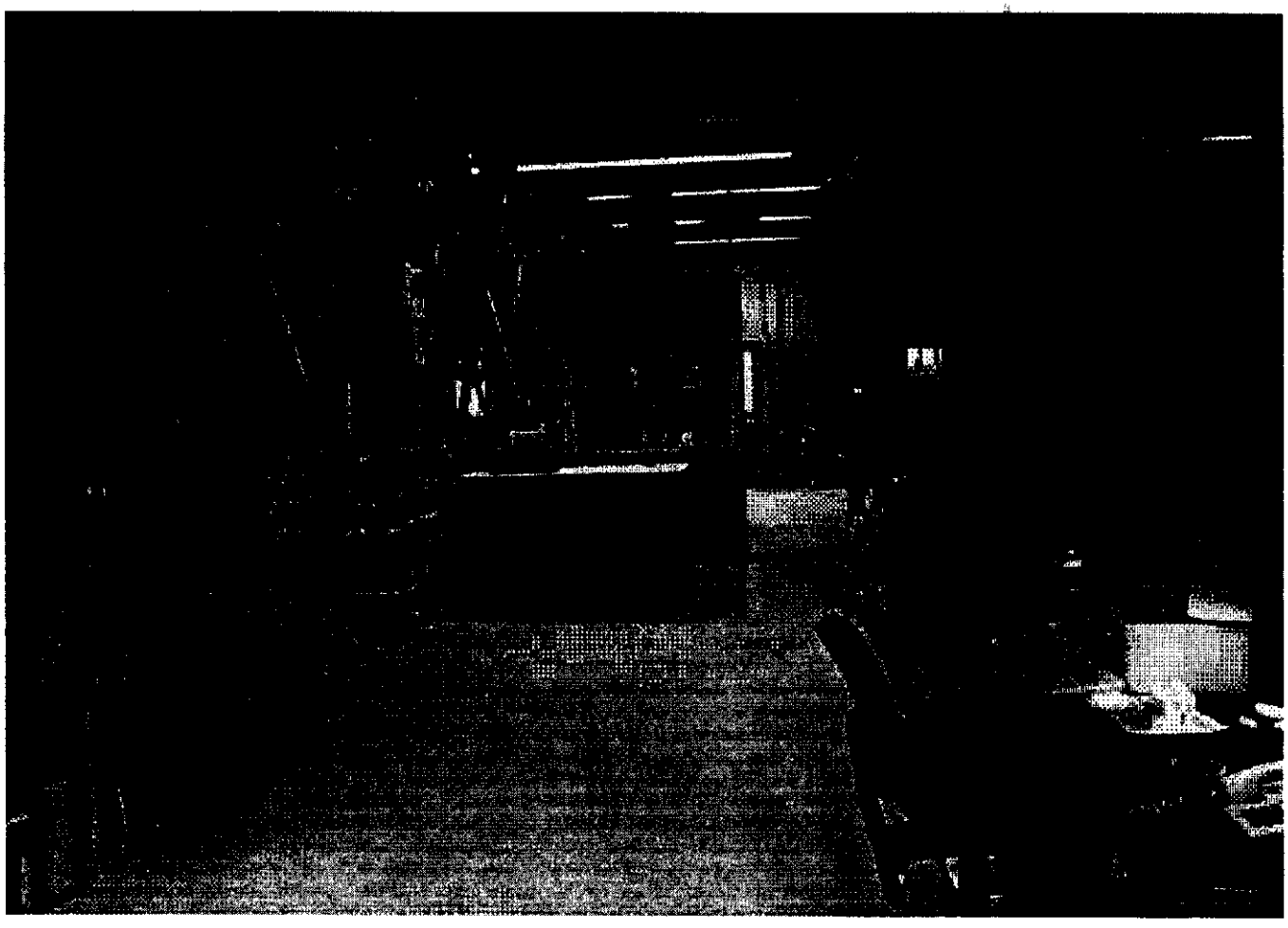


Shielded Analytical Laboratory
Room 201

46°22'6.8"
119°16'42"

96010398-16CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS



Shielded Analytical Laboratory
Room 201

46°22'6.8"
119°16'42"

96010398-7CN
(PHOTO TAKEN 1996)

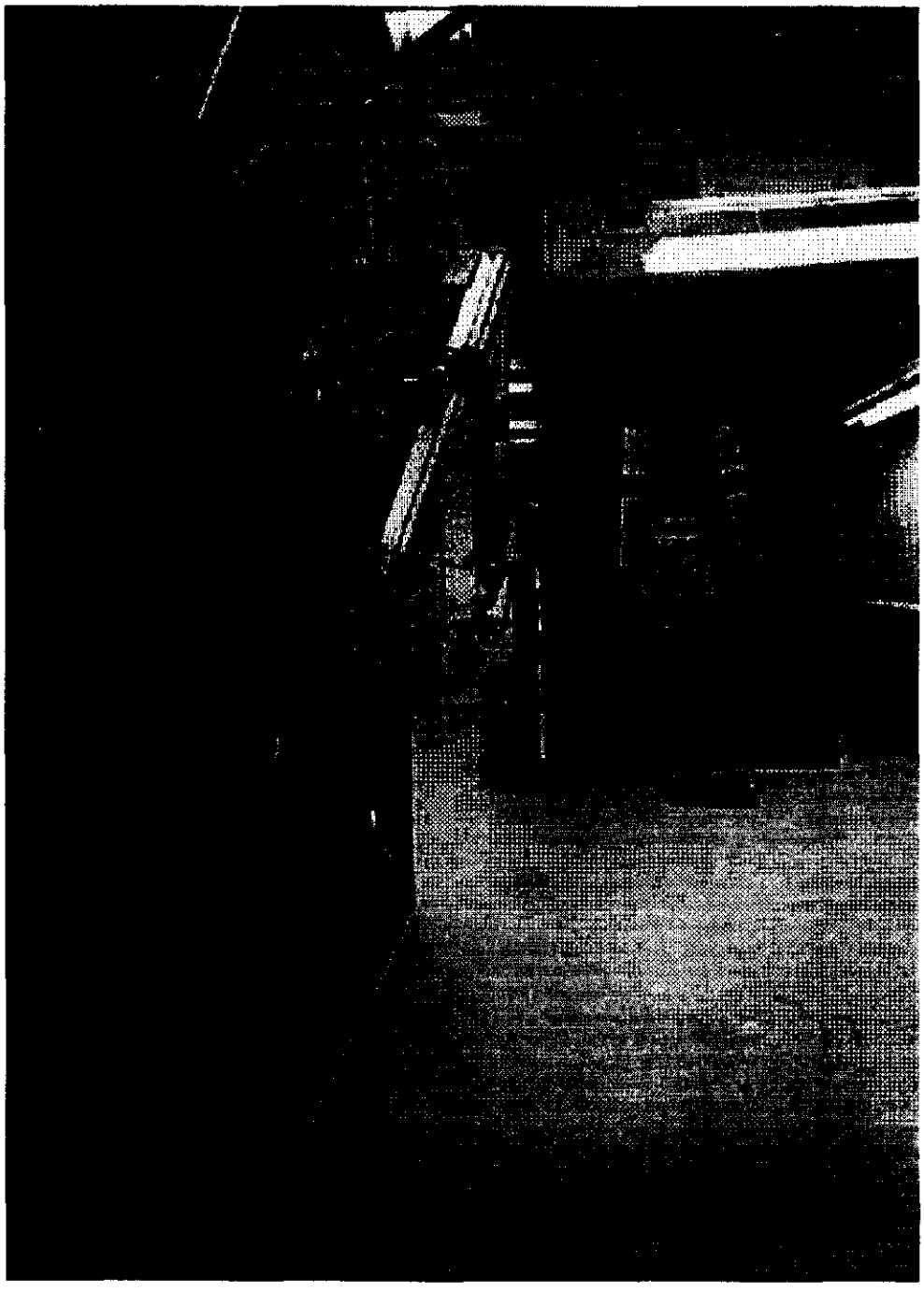
325 HAZARDOUS WASTE TREATMENT UNITS

Shielded Analytical Laboratory
Room 200

46°22'6.8"
119°16'42"

96010398-1CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS

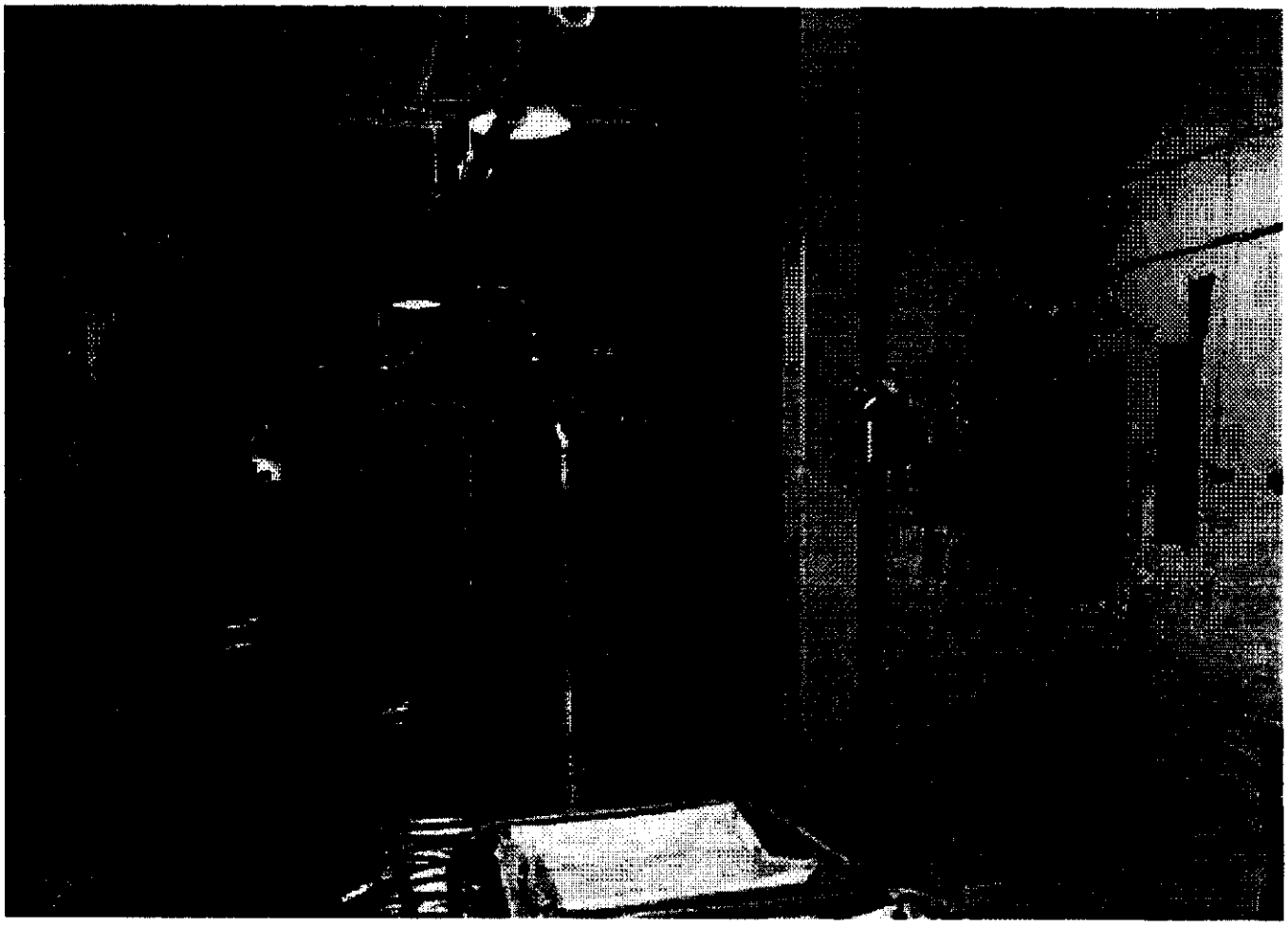


Shielded Analytical Laboratory
Room 203

46°22'6.8"
119°16'42"

7908247-1CN
(PHOTO TAKEN 1979)

325 HAZARDOUS WASTE TREATMENT UNITS

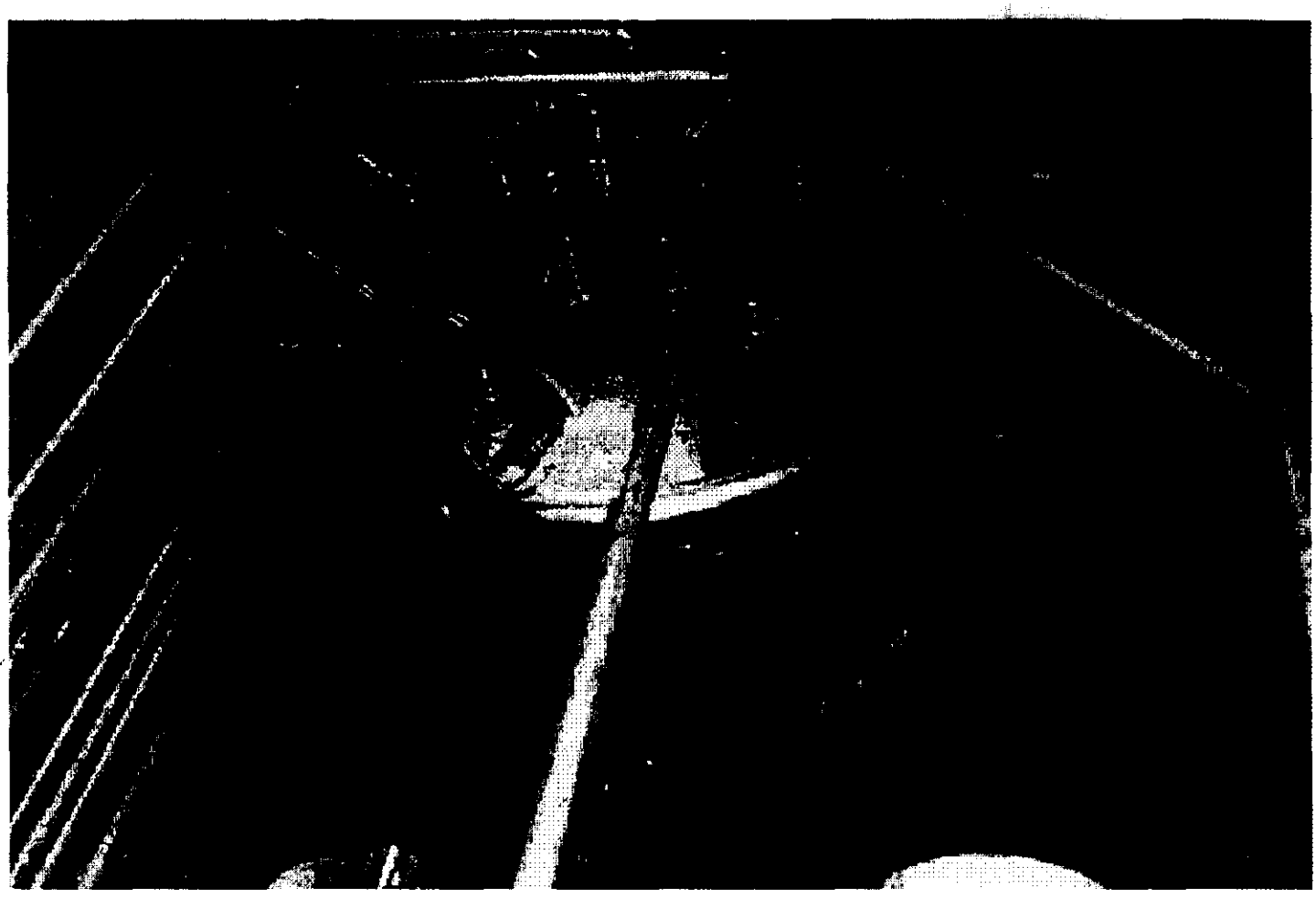


Shielded Analytical Laboratory
SAL Tank

46°22'6.8"
119°16'42"

96010398-3CN
(PHOTO TAKEN 1996)

325 HAZARDOUS WASTE TREATMENT UNITS



325 Collection/Loadout Station Tank

46°22'6.8"
119°16'42"

loadout
(PHOTO TAKEN 1999)

DOE/RL-88-21
311 Tanks
Rev. 1, 11/16/87

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
		Pending Approval

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	01	1973

**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 CODES: [illegible]

PROCESS DESIGN CAPACITY: [illegible]

1. AMOUNT: [illegible]

2. UNIT OF MEASURE: [illegible]

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	[illegible]
TANK	S02	GALLONS OR LITERS			
WASTEPILE	S03	CUBIC YARDS OR CUBIC METERS	SURFACE IMPOUNDMENT	T02	[illegible]
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR [illegible]
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	[illegible]	OTHER (Use the process chemical, thermal or biological treatment processes not covered in the Hanford Dangerous Waste Permit Application Section III.C.)	T04	[illegible]
LAND APPLICATION	D82	[illegible]			
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	Z
LITERS	L	TONS PER HOUR	D	HECTARE-METER	Q
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	H
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
300 Area Process Trenches
Rev. 4, 5/25/95

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
		Pending Approval

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
05	16	1975

*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. For more complicated wastes, codes S01 and T01 may be used. Use the space provided if additional lines are needed. For hazardous waste storage, enter the appropriate storage process code(s) in the process design capacity section below.

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 B1, enter the code from the list of unit of measure codes below that best describes the unit of measure used. Only the units of measure that are listed below should be used.

PROCESS	PROC. CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROC. 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 OR GALLONS PER HOUR OR LITERS PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal, biological, or other treatment processes not occurring in tanks, surface impoundments, or incinerators. Describe the process in the space provided on line T04.)	T04	GALLONS PER DAY OR LITERS PER DAY
LANDFILL	D81	ACRE-FEET (the volume that would cover one acre to a depth of one foot) OR HECTARE-METER			
LAND APPLICATION	D82	GALLONS OR LITERS			
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	A	LITERS PER DAY	V	ACRE-FEET	Y
LITERS	B	TONS PER HOUR	O	HECTARE-METER	Z
CUBIC YARDS	C	METRIC TONS PER HOUR	W		
CUBIC METERS	D	GALLONS PER HOUR	E		
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
437 Maintenance and Storage Facility
Rev. 3, 9/26/96

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
		Pending Approval

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. Two lines are provided for entering codes. If more lines are needed, enter the codes in the space provided. The processes will be used there for you to describe below, that describe the process (including storage), capacity, or the units of measure for that process.

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

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column C, enter the code from the list of unit of measure codes below that best describes the unit of measure used. Only the codes in the list of unit of measure codes below should be used.

PROCESS	CODE	ENTER APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	CODE	ENTER APPROPRIATE UNIT 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 OR 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 (the volume that would cover one hectare to a depth of one meter)	OTHER (Use for physical, chemical, thermal, or biological processes not occurring in tanks, surface impoundments, or incinerators. Describe the processes in the space provided. Specify: XXX)	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	CODE	UNIT OF MEASURE	CODE	UNIT OF MEASURE	CODE
GALLONS	G	LITERS PER DAY	V	ACRES	A
LITERS	L	TONS PER HOUR	Q	HECTARES	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W		
CUBIC METERS	C	GALLONS PER HOUR	E		
GALLONS PER DAY	D	LITERS PER HOUR	H		

DOE/RL-88-21
Sodium Storage Facility and Sodium Reaction Facility
Rev. 1, 9/26/96

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
		Pending Approval

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. For storage, treatment, and disposal processes, there are a maximum of twelve lines. If more than twelve lines are needed, enter the code of the last process in the space provided. If processes will be used that are not represented by the list of process codes below, describe the process (or processes) in Section III-C (Process Description) of the application.

PROCESS DESIGN CAPACITY - For each code entered, provide the amount of 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 best describes the unit of measure used. Only the codes in this list are acceptable and should be used.

PROCESS	PROCESS CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	APPROPRIATE UNIT 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
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal					
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRES OR HECTARES	OTHER (Use this space to describe the process in Section III-C)	T04	UNIT OF MEASURE CODE
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	ENTER THE MEASURE	UNIT OF MEASURE	UNIT OF MEASURE CODE	ENTER THE MEASURE
GALLONS	G	LITERS PER DAY			
LITERS	L	TONS PER HOUR			
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRE-FEET	A
CUBIC METERS	C	GALLONS PER HOUR	E	ACRES	B
GALLONS PER DAY	U	LITERS PER HOUR	H	HECTARES	C

DOE/RL-88-21
600 Area Purgewater Storage and Treatment Facility
Rev. 3, 9/11/98

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
		Pending Approval

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. If a process will be used that is not included in the process codes below, then describe the process (including its design capacity) in the space provided in Section III-C.

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

1. AMOUNT - Enter the amount.

2. UNIT OF MEASURE - For each amount entered in column B1, enter the code from the list of unit of measure codes below that best describes the unit of measure used to describe the design capacity of the process.

PROCESS	PROCESS CODE	PROCESS DESIGN CAPACITY	PROCESS	PROCESS CODE	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 OR GALLONS PER HOUR OR LITERS PER HOUR OR MILLION BTU PER HOUR
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS			
Disposal:					
INJECTION WELL	D80	GALLONS OR LITERS	OTHER (Use for physical, chemical, thermal or biological treatment processes not occurring in tanks, surface impoundments or incinerators. Describe in Section III-C)	T04	GALLONS PER DAY OR LITERS PER DAY
LANDFILL	D81	ACRES OR HECTARES			
LAND APPLICATION	D82	ACRES OR HECTARES			
OCEAN DISPOSAL	D83	GALLONS PER DAY OR CUBIC METERS 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	ACRES	Q
LITERS	L	TONS PER HOUR	D	HECTARES	H
CUBIC YARDS	Y	METRIC TONS PER HOUR	W		
CUBIC METERS	C	GALLONS PER HOUR	E		
GALLONS PER DAY	U	LITERS PER HOUR	H		

DOE/RL-88-21
Nonradioactive Dangerous Waste Landfill
Rev. 4, 6/30/94

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
		Pending Approval

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
01	01	1975

**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. For storage processes, provide only storage codes. If more than one process will be used, list the processes in the space provided. If a process will be used that is not included in the process codes below, then describe the process in the space provided in Section III-C.

PROCESS DESIGN CAPACITY - For each code entered, 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 of measure codes below that best describes the unit of measure used. Only the process codes and units of measure listed should be used.

PROCESS	PROC. CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:		
CONTAINER (barrel, drum, etc.)	S01	GALLONS OR LITERS
TANK	S02	GALLONS OR LITERS
WASTE PILE	S03	CUBIC YARDS OR CUBIC METERS
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
LAND APPLICATION	D82	ACRES OR HECTARES
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS

PROCESS	PROC. CODE	APPROPRIATE UNIT OF MEASURE FOR PROCESS DESIGN CAPACITY
Treatment:		
TANK	T01	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	T02	GALLONS PER DAY OR LITERS PER DAY
INCINERATOR	T03	GALLONS PER HOUR OR LITERS PER HOUR OR BTU PER HOUR
OTHER (Use for physical, chemical, thermal, biological treatment processes not occurring in tanks, surface impoundments, or incinerators. Describe the processes in the space provided in 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	A	GALLONS PER DAY	V	ACRES	S
LITERS	B	LITERS PER DAY	X	ACRE-FEET	T
CUBIC YARDS	E	METRIC TONS PER HOUR	W	HECTARES	U
CUBIC METERS	C	GALLONS PER HOUR	Y	HECTARE-METER	Z
GALLONS PER DAY	D	LITERS PER HOUR	H		