

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 <table border="1" style="width:100%; text-align: center; border-collapse: collapse;"> <tr> <td>W</td><td>A</td><td>7</td><td>8</td><td>9</td><td>0</td><td>0</td><td>0</td><td>8</td><td>9</td><td>6</td><td>7</td> </tr> </table>	W	A	7	8	9	0	0	0	8	9	6	7
W	A	7	8	9	0	0	0	8	9	6	7			

FOR OFFICIAL USE ONLY		
APPLICATION APPROVED	DATE RECEIVED <i>(mo., day, & yr.)</i>	COMMENTS
		Approved 11/22/99

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)													
<input type="checkbox"/> 1. EXISTING FACILITY <i>(See instructions for definition of "existing" facility. Complete Item below.)</i> <table border="1" style="width:100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width:33%; padding: 2px;">MO.</td> <td style="width:33%; padding: 2px;">DAY</td> <td style="width:33%; padding: 2px;">YEAR</td> </tr> <tr> <td style="padding: 2px;">03</td> <td style="padding: 2px;">22</td> <td style="padding: 2px;">1943</td> </tr> </table> <p style="font-size: 0.8em; margin-top: 5px;">*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.</p>	MO.	DAY	YEAR	03	22	1943	<input type="checkbox"/> 2. NEW FACILITY <i>(Complete item below)</i> <table border="1" style="width:100%; text-align: center; border-collapse: collapse;"> <tr> <td style="width:33%; padding: 2px;">MO.</td> <td style="width:33%; padding: 2px;">DAY</td> <td style="width:33%; padding: 2px;">YEAR</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table> <p style="font-size: 0.8em; margin-top: 5px;">FOR NEW FACILITIES, PROVIDE THE DATE, (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN</p>	MO.	DAY	YEAR			
MO.	DAY	YEAR											
03	22	1943											
MO.	DAY	YEAR											
B. REVISED APPLICATION (place an "X" below and complete Section I above)													
<input checked="" type="checkbox"/> 1. FACILITY HAS AN INTERIM STATUS PERMIT	<input checked="" type="checkbox"/> 2. FACILITY HAS A FINAL PERMIT												

III. PROCESS - CODES AND CAPACITIES

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

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

1. AMOUNT - Enter the amount.

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

PROCESS	PRO-CESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS	PRO-CESS 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			
SURFACE IMPOUNDMENT	S04	GALLONS OR LITERS	INCINERATOR	T03	TONS PER HOUR OR METRIC TONS PER HOUR; GALLONS PER HOUR OR LITERS PER HOUR
Disposal:			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
INJECTION WELL	D80	GALLONS OR LITERS			
LANDFILL	D81	ACRE-FEET <i>(the volume that would cover one acre to a depth of one foot) OR HECTARE-METER</i>			
LAND APPLICATION	D82	ACRES OR HECTARES			
OCEAN DISPOSAL	D83	GALLONS PER DAY OR LITERS PER DAY			
SURFACE IMPOUNDMENT	D84	GALLONS OR LITERS			
UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	G	LITERS PER DAY	V	ACRE-FEET	A
LITERS	L	TONS PER HOUR	D	HECTARE-METER	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

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

A. PROCESS	B. PROCESS DESIGN CAPACITY
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LINE NUMBER	CODE (from list above)	1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	FOR OFFICIAL USE ONLY			
X-1	S02	600	G				
X-2	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
NCAW and LLW storage capacity*		347,056
NCAW and LLW treatment capacity*		79,493 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

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

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 handle. If you handle dangerous wastes which are not listed in Chapter 173-303 WAC, enter the four digit number(s) that describe the characteristics and/or the toxic contaminants of those dangerous wastes.

B. ESTIMATED ANNUAL QUANTITY - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measurer which must 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 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 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 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:

- 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.
- 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.
- 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)			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
5	D004		↓	↓				↓
6	D005		↓	↓				↓
7	D006		↓	↓				↓
8	D007		↓	↓				↓
9	D008		↓	↓				↓
10	D009		↓	↓				↓
11	D010		↓	↓				↓
12	D011		↓	↓				↓

13	F001		↓	↓				↓
14	F002		↓	↓				↓
15	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
36	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		↓	↓	↓			↓
57	D008		↓	↓	↓			↓
58	D009		↓	↓	↓			↓
59	D010		↓	↓	↓			↓
60	D011		↓	↓	↓			↓
61	F001		↓	↓	↓			↓
62	F002		↓	↓	↓			↓

VIII. FACILITY OWNER					
<input checked="" type="checkbox"/> 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.					
<input type="checkbox"/> 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>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.</i>					
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>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.</i>					
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.

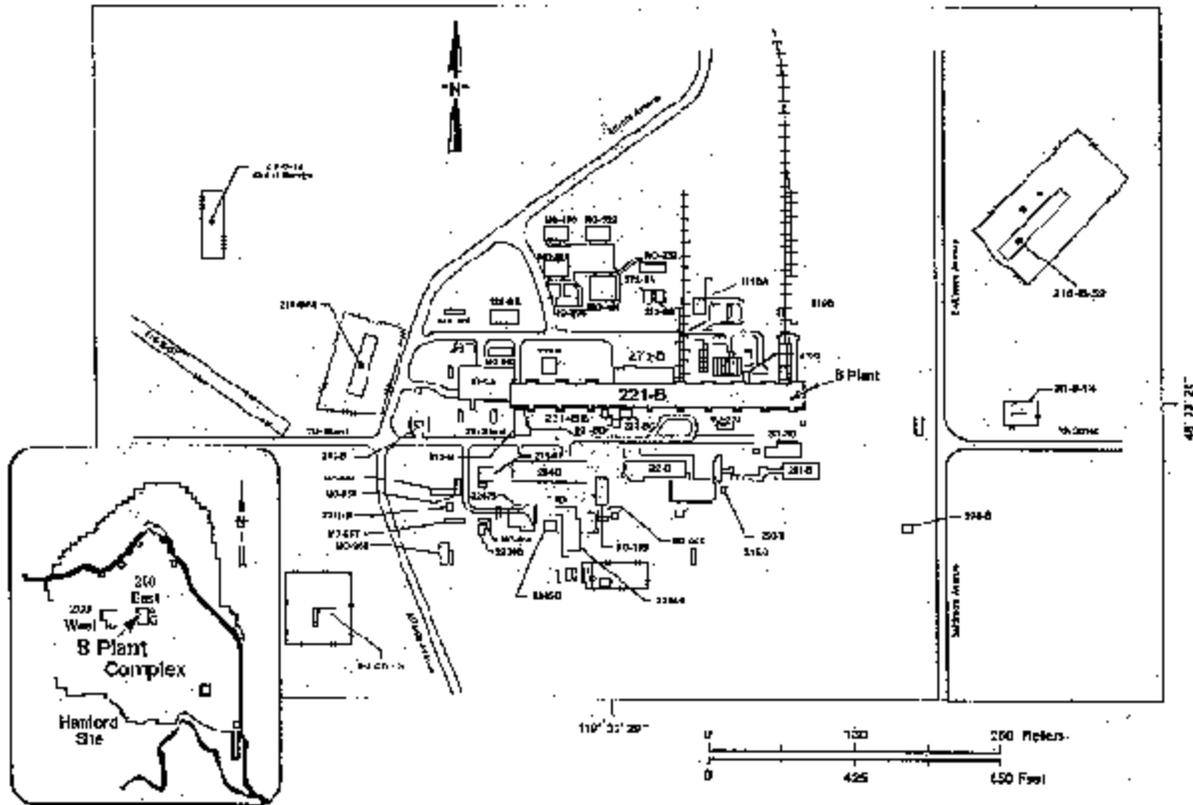
Keith A. Klein _____
Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

11/22/99 _____
Date

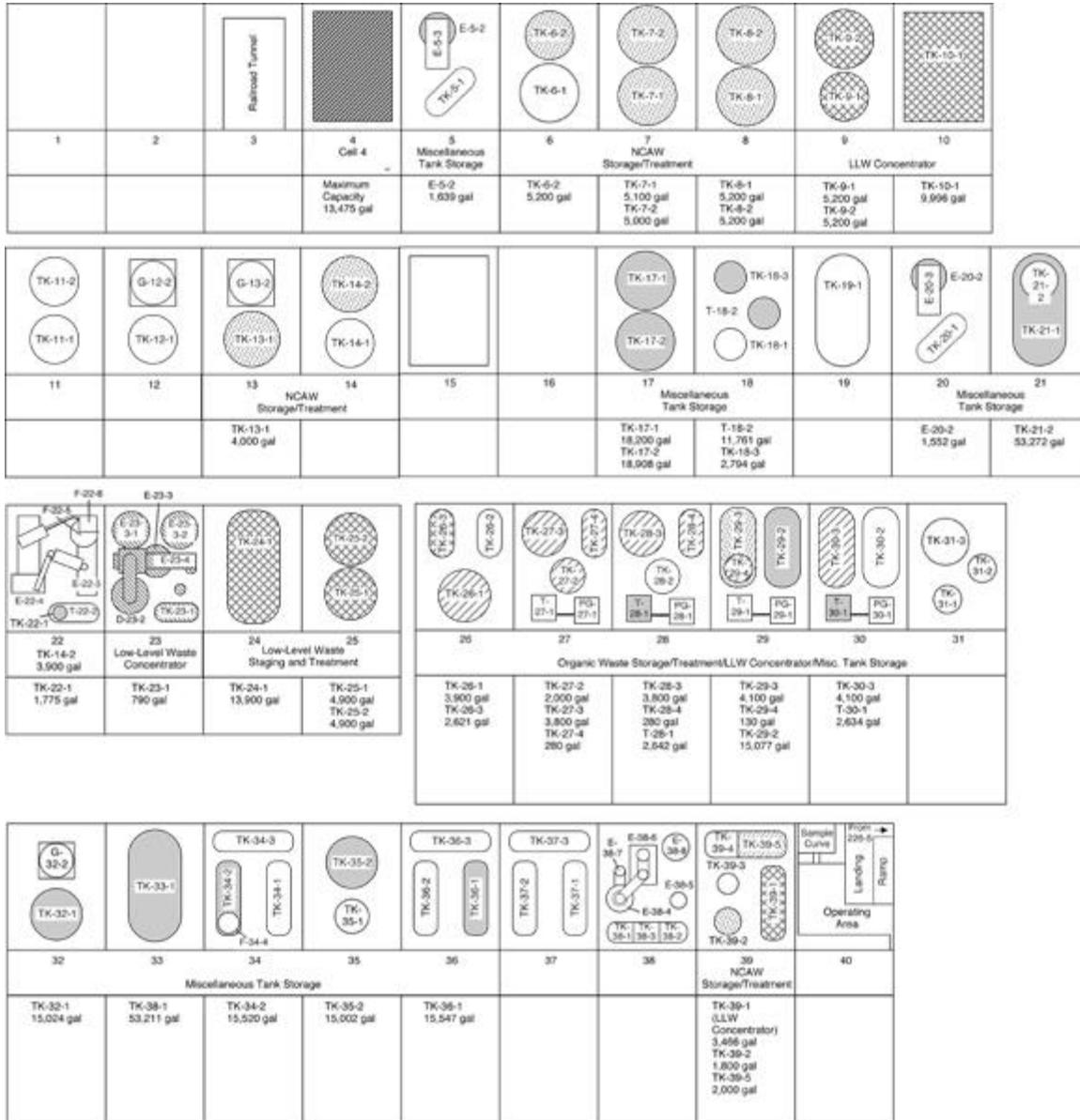
Michael C. Hughes for _____
Co-Operator
S. D. Liedle, President
Bechtel Hanford, Inc.

10/6/99 _____
Date

B Plant Complex Site Plan



221-B Building Process Cells

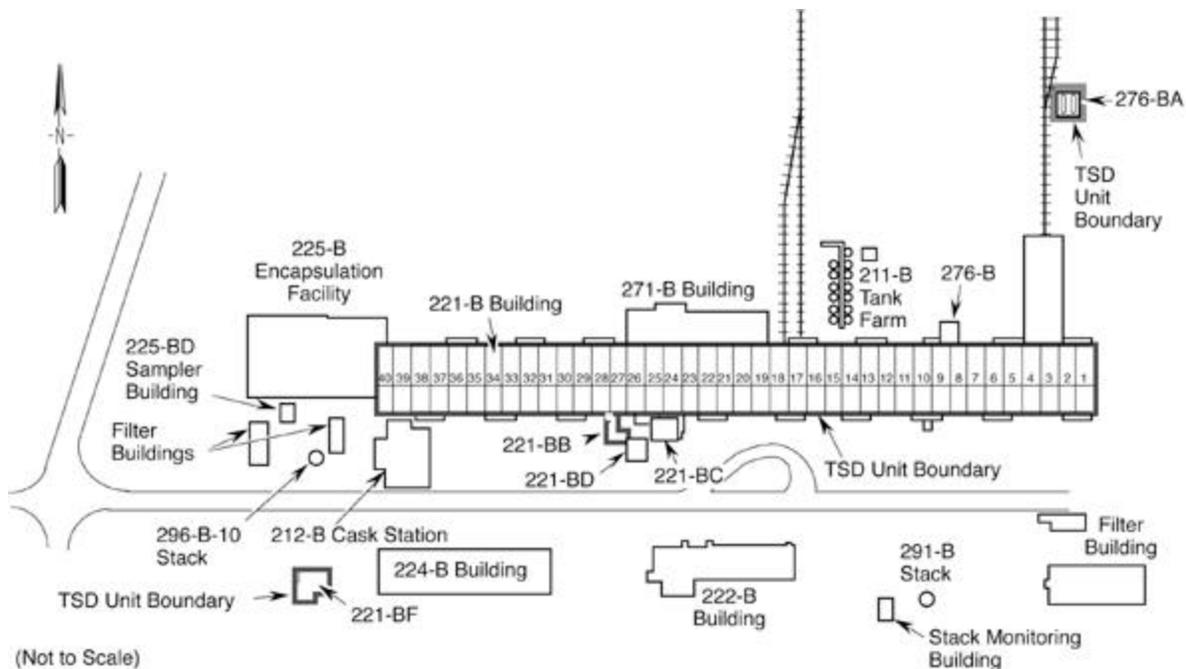


Key:

<p>NCAW = neutralized current acid waste gal = gallon D = deentrainer E = heat transfer equipment F = filter G = centrifuge P = pump PG = pulse generator T = tower TK = tank</p>	<p> Low-Level Waste Storage and Treatment</p> <p> Low-Level Waste Concentrator</p> <p> NCAW Storage/Treatment Tank System</p>	<p> Organic Waste Storage</p> <p> Miscellaneous Tank Storage</p> <p> Container Storage</p>
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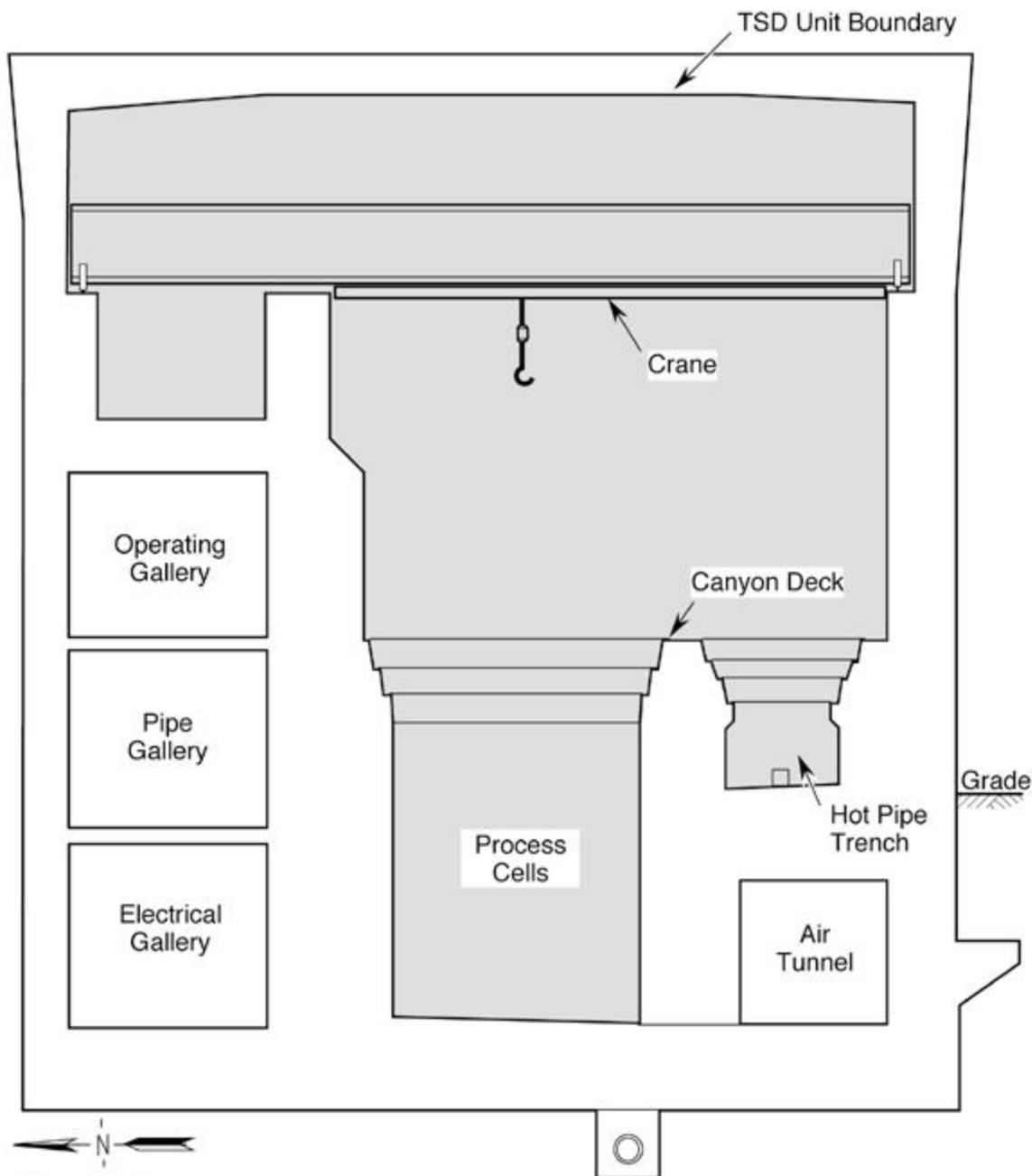
For conversion to liters, multiply gallons by 3.7854

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.

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

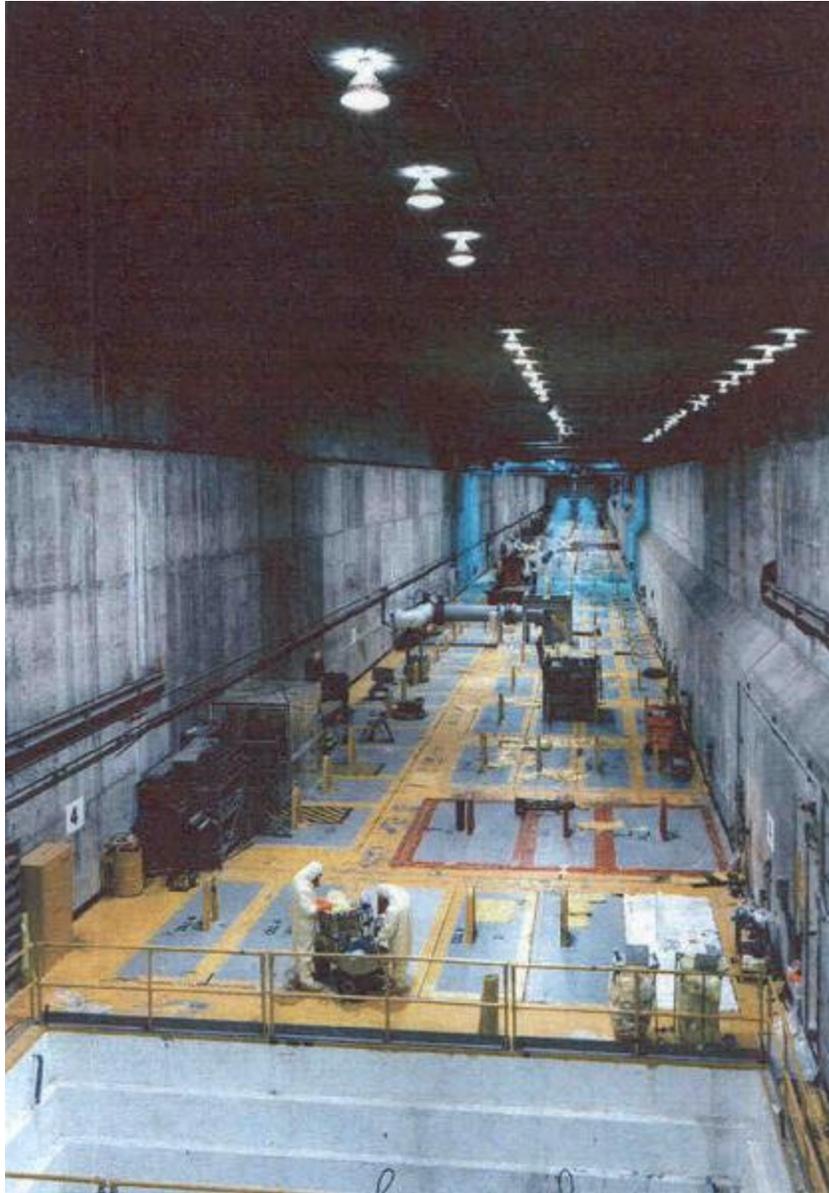
B PLANT COMPLEX AERIAL VIEW



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



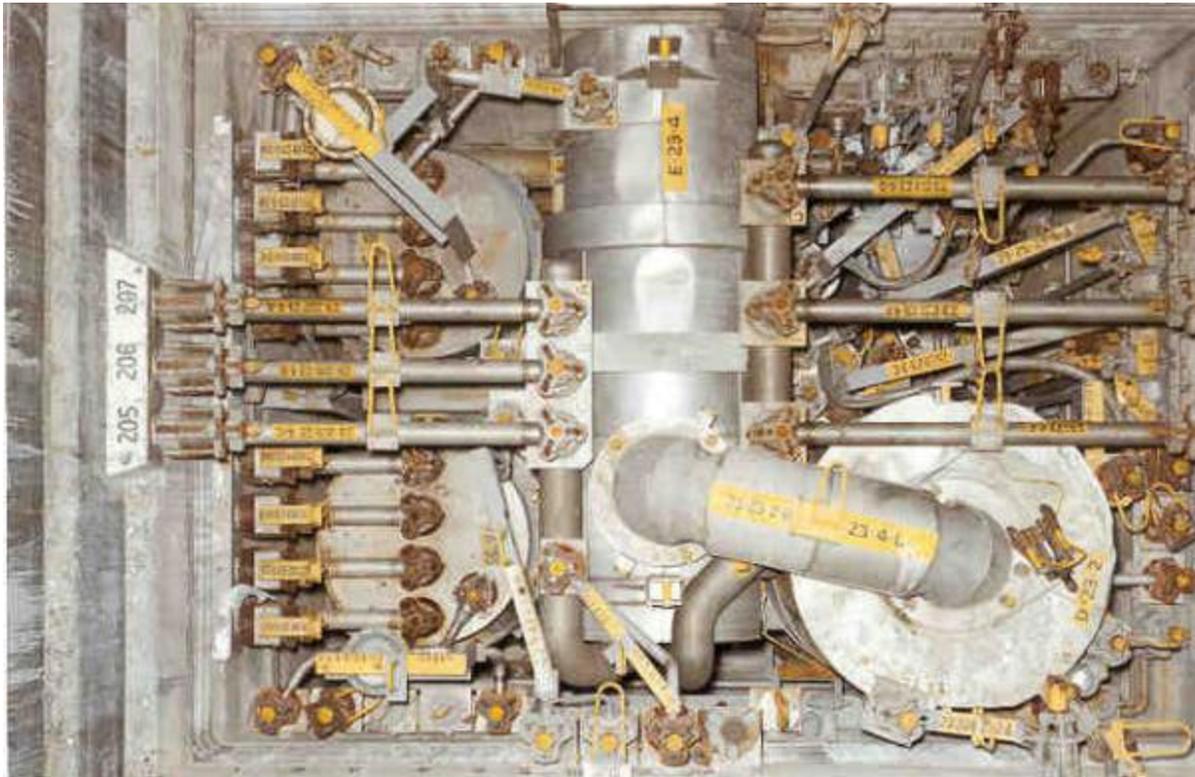
TOP VIEW - TYPICAL NCAW STORAGE AND TREATMENT TANK
(TK-8-1 AND TK-8-2), TYPICAL CANYON CELL

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)