

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										
		Approved 05/07/02										

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)

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

*The date construction of the Hanford Facility commenced

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. PROCESSES – CODES AND DESIGN 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(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.

- Amount – Enter the amount.
- 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
	S06	Cubic yards or cubic meters*
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; 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	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		

III. PROCESS – CODES AND DESIGN CAPACITIES (continued)											
<p>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.</p>											
Line No.	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	S	0	2	600			G				
X-2	T	0	3	20			E				
1	S	0	1	12,000			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											
<p>C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.</p> <p><u>S01, T04, S02, T01</u></p> <p>The 325 Hazardous 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, 524 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 12,000 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).</p> <p>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 liquid 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).</p> <p>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:</p>											
T11 Molten salt destructor			T35 Centrifugation			T55 Electrolysis					
T12 Pyrolysis			T36 Clarification			T56 Electrolysis					
T13 Wet air oxidation			T37 Coagulation			T57 Evaporation					
T14 Calcination			T38 Decanting			T58 High gradient magnetic separation					
T15 Microwave discharge			T39 Encapsulation			T59 Leaching					
T18 Other thermal treatment			T40 Filtration			T60 Liquid ion exchange					
T21 Chemical fixation			T41 Flocculation			T61 Liquid-liquid extraction					
T22 Chemical oxidation			T42 Flotation			T62 Reverse osmosis					
T23 Chemical precipitation			T43 Foaming			T63 Solvent recovery					
T24 Chemical reduction			T44 Sedimentation			T64 Stripping					
T25 Chlorination			T45 Thickening			T65 Sand filter					
T26 Chlorinolysis			T46 Ultrafiltration			T66 Other removal technology					
T27 Cyanide destruction			T47 Other separation technology			T67 Activated sludge					
T28 Degradation			T48 Absorption-molecular sieve			T69 Aerobic tank					
T29 Detoxification			T49 Activated carbon			T70 Anaerobic lagoon or tank					
T30 Ion exchange			T50 Blending			T71 Composting					
T31 Neutralization			T51 Catalysis			T74 Thickening filter					
T32 Ozonation			T52 Crystallization			T75 Tricking filter					
T33 Photolysis			T53 Dialysis			T77 Other biological treatment					
T34 Other chemical treatment			T54 Distillation								

IV. DESCRIPTION OF DANGEROUS WASTES

A. Dangerous Waste Number – Enter the 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 describes 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 measure 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.

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	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.

I.D. 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)		2. Process Description (if a code is not entered in D(1))			
1	D	0	0	1	82,500* *[60,000 (S01); 22,500 (T04)]	K			S01	T04				Storage-Container/Treatment-Other
2	D	0	0	2		K			S01	T04				
3	D	0	0	3		K			S01	T04				
4	D	0	0	4		K			S01	T04				
5	D	0	0	5		K			S01	T04				
6	D	0	0	6		K			S01	T04				
7	D	0	0	7		K			S01	T04				
8	D	0	0	8		K			S01	T04				
9	D	0	0	9		K			S01	T04				
10	D	0	1	0		K			S01	T04				
11	D	0	1	1		K			S01	T04				
12	D	0	1	2		K			S01	T04				
13	D	0	1	3		K			S01	T04				
14	D	0	1	4		K			S01	T04				
15	D	0	1	5		K			S01	T04				
16	D	0	1	6		K			S01	T04				
17	D	0	1	7		K			S01	T04				
18	D	0	1	8		K			S01	T04				
19	D	0	1	9		K			S01	T04				
20	D	0	2	0		K			S01	T04				
21	D	0	2	1		K			S01	T04				
22	D	0	2	2		K			S01	T04				
23	D	0	2	3		K			S01	T04				
24	D	0	2	4		K			S01	T04				
25	D	0	2	5		K			S01	T04				
26	D	0	2	6		K			S01	T04				
27	D	0	2	7		K			S01	T04				
28	D	0	2	8		K			S01	T04				
29	D	0	2	9		K			S01	T04				
30	D	0	3	0		K			S01	T04				
31	D	0	3	1		K			S01	T04				
32	D	0	3	2		K			S01	T04				
33	D	0	3	3		K			S01	T04				
34	D	0	3	4		K			S01	T04				
35	D	0	3	5		K			S01	T04				
36	D	0	3	6		K			S01	T04				
37	D	0	3	7		K			S01	T04				
38	D	0	3	8		K			S01	T04				
39	D	0	3	9		K			S01	T04				
40	D	0	4	0		K			S01	T04				
41	D	0	4	1		K			S01	T04				
42	D	0	4	2		K			S01	T04				
43	D	0	4	3		K			S01	T04				
44	F	0	0	1		K			S01	T04				
45	F	0	0	2		K			S01	T04				

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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))		
46	F	0	0	3		K			S01	T04			Storage-Container/Treatment-Other
47	F	0	0	4		K			S01	T04			
48	F	0	0	5		K			S01	T04			
49	F	0	2	7		K			S01	T04			
50	F	0	3	9		K			S01	T04			
51	K	0	1	1		K			S01	T04			
52	K	0	1	3		K			S01	T04			
53	K	0	4	4		K			S01	T04			
54	K	0	4	8		K			S01	T04			
55	K	0	4	9		K			S01	T04			
56	K	0	5	0		K			S01	T04			
57	K	0	5	1		K			S01	T04			
58	K	0	5	2		K			S01	T04			
59	P	0	0	1		K			S01	T04			
60	P	0	0	2		K			S01	T04			
61	P	0	0	3		K			S01	T04			
62	P	0	0	4		K			S01	T04			
63	P	0	0	5		K			S01	T04			
64	P	0	0	6		K			S01	T04			
65	P	0	0	7		K			S01	T04			
66	P	0	0	8		K			S01	T04			
67	P	0	0	9		K			S01	T04			
68	P	0	1	0		K			S01	T04			
69	P	0	1	1		K			S01	T04			
70	P	0	1	2		K			S01	T04			
71	P	0	1	3		K			S01	T04			
72	P	0	1	4		K			S01	T04			
73	P	0	1	5		K			S01	T04			
74	P	0	1	6		K			S01	T04			
75	P	0	1	7		K			S01	T04			
76	P	0	1	8		K			S01	T04			
77	P	0	2	0		K			S01	T04			
78	P	0	2	1		K			S01	T04			
79	P	0	2	2		K			S01	T04			
80	P	0	2	3		K			S01	T04			
81	P	0	2	4		K			S01	T04			
82	P	0	2	6		K			S01	T04			
83	P	0	2	7		K			S01	T04			
84	P	0	2	8		K			S01	T04			
85	P	0	2	9		K			S01	T04			
86	P	0	3	0		K			S01	T04			
87	P	0	3	1		K			S01	T04			
88	P	0	3	3		K			S01	T04			
89	P	0	3	4		K			S01	T04			
90	P	0	3	6		K			S01	T04			
91	P	0	3	7		K			S01	T04			

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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))		
92	P	0	3	8		K			S01	T04			Storage-Container/Treatment-Other
93	P	0	3	9		K			S01	T04			
94	P	0	4	0		K			S01	T04			
95	P	0	4	1		K			S01	T04			
96	P	0	4	2		K			S01	T04			
97	P	0	4	3		K			S01	T04			
98	P	0	4	4		K			S01	T04			
99	P	0	4	5		K			S01	T04			
100	P	0	4	6		K			S01	T04			
101	P	0	4	7		K			S01	T04			
102	P	0	4	8		K			S01	T04			
103	P	0	4	9		K			S01	T04			
104	P	0	5	0		K			S01	T04			
105	P	0	5	1		K			S01	T04			
106	P	0	5	4		K			S01	T04			
107	P	0	5	6		K			S01	T04			
108	P	0	5	7		K			S01	T04			
109	P	0	5	8		K			S01	T04			
110	P	0	5	9		K			S01	T04			
111	P	0	6	0		K			S01	T04			
112	P	0	6	2		K			S01	T04			
113	P	0	6	3		K			S01	T04			
114	P	0	6	4		K			S01	T04			
115	P	0	6	5		K			S01	T04			
116	P	0	6	6		K			S01	T04			
117	P	0	6	7		K			S01	T04			
118	P	0	6	8		K			S01	T04			
119	P	0	6	9		K			S01	T04			
120	P	0	7	0		K			S01	T04			
121	P	0	7	1		K			S01	T04			
122	P	0	7	2		K			S01	T04			
123	P	0	7	3		K			S01	T04			
124	P	0	7	4		K			S01	T04			
125	P	0	7	5		K			S01	T04			
126	P	0	7	6		K			S01	T04			
127	P	0	7	7		K			S01	T04			
128	P	0	7	8		K			S01	T04			
129	P	0	8	1		K			S01	T04			
130	P	0	8	2		K			S01	T04			
131	P	0	8	4		K			S01	T04			
132	P	0	8	5		K			S01	T04			
133	P	0	8	7		K			S01	T04			
134	P	0	8	8		K			S01	T04			
135	P	0	8	9		K			S01	T04			
136	P	0	9	2		K			S01	T04			
137	P	0	9	3		K			S01	T04			

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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))		
138	P	0	9	4		K			S01	T04			Storage-Container/Treatment-Other
139	P	0	9	5		K			S01	T04			
140	P	0	9	6		K			S01	T04			
141	P	0	9	7		K			S01	T04			
142	P	0	9	8		K			S01	T04			
143	P	0	9	9		K			S01	T04			
144	P	1	0	1		K			S01	T04			
145	P	1	0	2		K			S01	T04			
146	P	1	0	3		K			S01	T04			
147	P	1	0	4		K			S01	T04			
148	P	1	0	5		K			S01	T04			
149	P	1	0	6		K			S01	T04			
150	P	1	0	8		K			S01	T04			
151	P	1	0	9		K			S01	T04			
152	P	1	1	0		K			S01	T04			
153	P	1	1	1		K			S01	T04			
154	P	1	1	2		K			S01	T04			
155	P	1	1	3		K			S01	T04			
156	P	1	1	4		K			S01	T04			
157	P	1	1	5		K			S01	T04			
158	P	1	1	6		K			S01	T04			
159	P	1	1	8		K			S01	T04			
160	P	1	1	9		K			S01	T04			
161	P	1	2	0		K			S01	T04			
162	P	1	2	1		K			S01	T04			
163	P	1	2	2		K			S01	T04			
164	P	1	2	3		K			S01	T04			
165	P	1	2	7		K			S01	T04			
166	P	1	2	8		K			S01	T04			
167	P	1	8	5		K			S01	T04			
168	P	1	8	8		K			S01	T04			
169	P	1	8	9		K			S01	T04			
170	P	1	9	0		K			S01	T04			
171	P	1	9	1		K			S01	T04			
172	P	1	9	2		K			S01	T04			
173	P	1	9	4		K			S01	T04			
174	P	1	9	6		K			S01	T04			
175	P	1	9	7		K			S01	T04			
176	P	1	9	8		K			S01	T04			
177	P	1	9	9		K			S01	T04			
178	P	2	0	1		K			S01	T04			
179	P	2	0	2		K			S01	T04			
180	P	2	0	3		K			S01	T04			
181	P	2	0	4		K			S01	T04			
182	P	2	0	5		K			S01	T04			
183	U	0	0	1		K			S01	T04			

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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))		
184	U	0	0	2		K			S01	T04				Storage-Container/Treatment-Other
185	U	0	0	3		K			S01	T04				
186	U	0	0	4		K			S01	T04				
187	U	0	0	5		K			S01	T04				
188	U	0	0	6		K			S01	T04				
189	U	0	0	7		K			S01	T04				
190	U	0	0	8		K			S01	T04				
191	U	0	0	9		K			S01	T04				
192	U	0	1	0		K			S01	T04				
193	U	0	1	1		K			S01	T04				
194	U	0	1	2		K			S01	T04				
195	U	0	1	4		K			S01	T04				
196	U	0	1	5		K			S01	T04				
197	U	0	1	6		K			S01	T04				
198	U	0	1	7		K			S01	T04				
199	U	0	1	8		K			S01	T04				
200	U	0	1	9		K			S01	T04				
201	U	0	2	0		K			S01	T04				
202	U	0	2	1		K			S01	T04				
203	U	0	2	2		K			S01	T04				
204	U	0	2	3		K			S01	T04				
205	U	0	2	4		K			S01	T04				
206	U	0	2	5		K			S01	T04				
207	U	0	2	6		K			S01	T04				
208	U	0	2	7		K			S01	T04				
209	U	0	2	8		K			S01	T04				
210	U	0	2	9		K			S01	T04				
211	U	0	3	0		K			S01	T04				
212	U	0	3	1		K			S01	T04				
213	U	0	3	2		K			S01	T04				
214	U	0	3	3		K			S01	T04				
215	U	0	3	4		K			S01	T04				
216	U	0	3	5		K			S01	T04				
217	U	0	3	6		K			S01	T04				
218	U	0	3	7		K			S01	T04				
219	U	0	3	8		K			S01	T04				
220	U	0	3	9		K			S01	T04				
221	U	0	4	1		K			S01	T04				
222	U	0	4	2		K			S01	T04				
223	U	0	4	3		K			S01	T04				
224	U	0	4	4		K			S01	T04				
225	U	0	4	5		K			S01	T04				
226	U	0	4	6		K			S01	T04				
227	U	0	4	7		K			S01	T04				
228	U	0	4	8		K			S01	T04				
229	U	0	4	9		K			S01	T04				

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I.D. 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)		2. Process Description (if a code is not entered in D(1))		
230	U	0	5	0		K			S01	T04			Storage-Container/Treatment-Other
231	U	0	5	1		K			S01	T04			
232	U	0	5	2		K			S01	T04			
233	U	0	5	3		K			S01	T04			
234	U	0	5	5		K			S01	T04			
235	U	0	5	6		K			S01	T04			
236	U	0	5	7		K			S01	T04			
237	U	0	5	8		K			S01	T04			
238	U	0	5	9		K			S01	T04			
239	U	0	6	0		K			S01	T04			
240	U	0	6	1		K			S01	T04			
241	U	0	6	2		K			S01	T04			
242	U	0	6	3		K			S01	T04			
243	U	0	6	4		K			S01	T04			
244	U	0	6	6		K			S01	T04			
245	U	0	6	7		K			S01	T04			
246	U	0	6	8		K			S01	T04			
247	U	0	6	9		K			S01	T04			
248	U	0	7	0		K			S01	T04			
249	U	0	7	1		K			S01	T04			
250	U	0	7	2		K			S01	T04			
251	U	0	7	3		K			S01	T04			
252	U	0	7	4		K			S01	T04			
253	U	0	7	5		K			S01	T04			
254	U	0	7	6		K			S01	T04			
255	U	0	7	7		K			S01	T04			
256	U	0	7	8		K			S01	T04			
257	U	0	7	9		K			S01	T04			
258	U	0	8	0		K			S01	T04			
259	U	0	8	1		K			S01	T04			
260	U	0	8	2		K			S01	T04			
261	U	0	8	3		K			S01	T04			
262	U	0	8	4		K			S01	T04			
263	U	0	8	5		K			S01	T04			
264	U	0	8	6		K			S01	T04			
265	U	0	8	7		K			S01	T04			
266	U	0	8	8		K			S01	T04			
267	U	0	8	9		K			S01	T04			
268	U	0	9	0		K			S01	T04			
269	U	0	9	1		K			S01	T04			
270	U	0	9	2		K			S01	T04			
271	U	0	9	3		K			S01	T04			
272	U	0	9	4		K			S01	T04			
273	U	0	9	5		K			S01	T04			
274	U	0	9	6		K			S01	T04			
275	U	0	9	7		K			S01	T04			

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

I.D. 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)		2. Process Description (if a code is not entered in D(1))		
276	U	0	9	8		K			S01	T04			Storage-Container/Treatment-Other
277	U	0	9	9		K			S01	T04			
278	U	1	0	1		K			S01	T04			
279	U	1	0	2		K			S01	T04			
280	U	1	0	3		K			S01	T04			
281	U	1	0	5		K			S01	T04			
282	U	1	0	6		K			S01	T04			
283	U	1	0	7		K			S01	T04			
284	U	1	0	8		K			S01	T04			
285	U	1	0	9		K			S01	T04			
286	U	1	1	0		K			S01	T04			
287	U	1	1	1		K			S01	T04			
288	U	1	1	2		K			S01	T04			
289	U	1	1	3		K			S01	T04			
290	U	1	1	4		K			S01	T04			
291	U	1	1	5		K			S01	T04			
292	U	1	1	6		K			S01	T04			
293	U	1	1	7		K			S01	T04			
294	U	1	1	8		K			S01	T04			
295	U	1	1	9		K			S01	T04			
296	U	1	2	0		K			S01	T04			
297	U	1	2	1		K			S01	T04			
298	U	1	2	2		K			S01	T04			
299	U	1	2	3		K			S01	T04			
300	U	1	2	4		K			S01	T04			
301	U	1	2	5		K			S01	T04			
302	U	1	2	6		K			S01	T04			
303	U	1	2	7		K			S01	T04			
304	U	1	2	8		K			S01	T04			
305	U	1	2	9		K			S01	T04			
306	U	1	3	0		K			S01	T04			
307	U	1	3	1		K			S01	T04			
308	U	1	3	2		K			S01	T04			
309	U	1	3	3		K			S01	T04			
310	U	1	3	4		K			S01	T04			
311	U	1	3	5		K			S01	T04			
312	U	1	3	6		K			S01	T04			
313	U	1	3	7		K			S01	T04			
314	U	1	3	8		K			S01	T04			
315	U	1	4	0		K			S01	T04			
316	U	1	4	1		K			S01	T04			
317	U	1	4	2		K			S01	T04			
318	U	1	4	3		K			S01	T04			
319	U	1	4	4		K			S01	T04			
320	U	1	4	5		K			S01	T04			
321	U	1	4	6		K			S01	T04			

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

I.D. 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)		2. Process Description (if a code is not entered in D(1))		
322	U	1	4	7		K			S01	T04			Storage-Container/Treatment-Other
323	U	1	4	8		K			S01	T04			
324	U	1	4	9		K			S01	T04			
325	U	1	5	0		K			S01	T04			
326	U	1	5	1		K			S01	T04			
327	U	1	5	2		K			S01	T04			
328	U	1	5	3		K			S01	T04			
329	U	1	5	4		K			S01	T04			
330	U	1	5	5		K			S01	T04			
331	U	1	5	6		K			S01	T04			
332	U	1	5	7		K			S01	T04			
333	U	1	5	8		K			S01	T04			
334	U	1	5	9		K			S01	T04			
335	U	1	6	0		K			S01	T04			
336	U	1	6	1		K			S01	T04			
337	U	1	6	2		K			S01	T04			
338	U	1	6	3		K			S01	T04			
339	U	1	6	4		K			S01	T04			
340	U	1	6	5		K			S01	T04			
341	U	1	6	6		K			S01	T04			
342	U	1	6	7		K			S01	T04			
343	U	1	6	8		K			S01	T04			
344	U	1	6	9		K			S01	T04			
345	U	1	7	0		K			S01	T04			
346	U	1	7	1		K			S01	T04			
347	U	1	7	2		K			S01	T04			
348	U	1	7	3		K			S01	T04			
349	U	1	7	4		K			S01	T04			
350	U	1	7	6		K			S01	T04			
351	U	1	7	7		K			S01	T04			
352	U	1	7	8		K			S01	T04			
353	U	1	7	9		K			S01	T04			
354	U	1	8	0		K			S01	T04			
355	U	1	8	1		K			S01	T04			
356	U	1	8	2		K			S01	T04			
357	U	1	8	3		K			S01	T04			
358	U	1	8	4		K			S01	T04			
359	U	1	8	5		K			S01	T04			
360	U	1	8	6		K			S01	T04			
361	U	1	8	7		K			S01	T04			
362	U	1	8	8		K			S01	T04			
363	U	1	8	9		K			S01	T04			
364	U	1	9	0		K			S01	T04			
365	U	1	9	1		K			S01	T04			
366	U	1	9	2		K			S01	T04			
367	U	1	9	3		K			S01	T04			

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

I.D. 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)		2. Process Description (if a code is not entered in D(1))		
368	U	1	9	4		K			S01	T04			Storage-Container/Treatment-Other
369	U	1	9	6		K			S01	T04			
370	U	1	9	7		K			S01	T04			
371	U	2	0	0		K			S01	T04			
372	U	2	0	1		K			S01	T04			
373	U	2	0	2		K			S01	T04			
374	U	2	0	3		K			S01	T04			
375	U	2	0	4		K			S01	T04			
376	U	2	0	5		K			S01	T04			
377	U	2	0	6		K			S01	T04			
378	U	2	0	7		K			S01	T04			
379	U	2	0	8		K			S01	T04			
380	U	2	0	9		K			S01	T04			
381	U	2	1	0		K			S01	T04			
382	U	2	1	1		K			S01	T04			
383	U	2	1	3		K			S01	T04			
384	U	2	1	4		K			S01	T04			
385	U	2	1	5		K			S01	T04			
386	U	2	1	6		K			S01	T04			
387	U	2	1	7		K			S01	T04			
388	U	2	1	8		K			S01	T04			
389	U	2	1	9		K			S01	T04			
390	U	2	2	0		K			S01	T04			
391	U	2	2	1		K			S01	T04			
392	U	2	2	2		K			S01	T04			
393	U	2	2	3		K			S01	T04			
394	U	2	2	5		K			S01	T04			
395	U	2	2	6		K			S01	T04			
396	U	2	2	7		K			S01	T04			
397	U	2	2	8		K			S01	T04			
398	U	2	3	4		K			S01	T04			
399	U	2	3	5		K			S01	T04			
400	U	2	3	6		K			S01	T04			
401	U	2	3	7		K			S01	T04			
402	U	2	3	8		K			S01	T04			
403	U	2	3	9		K			S01	T04			
404	U	2	4	0		K			S01	T04			
405	U	2	4	3		K			S01	T04			
406	U	2	4	4		K			S01	T04			
407	U	2	4	6		K			S01	T04			
408	U	2	4	7		K			S01	T04			
409	U	2	4	8		K			S01	T04			
410	U	2	4	9		K			S01	T04			
411	U	2	7	1		K			S01	T04			
412	U	2	7	7		K			S01	T04			
413	U	2	7	8		K			S01	T04			

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

I.D. 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)		2. Process Description (if a code is not entered in D(1))		
414	U	2	7	9		K			S01	T04			Storage-Container/Treatment-Other
415	U	2	8	0		K			S01	T04			
416	U	3	2	8		K			S01	T04			
417	U	3	5	3		K			S01	T04			
418	U	3	5	9		K			S01	T04			
419	U	3	6	4		K			S01	T04			
420	U	3	6	5		K			S01	T04			
421	U	3	6	6		K			S01	T04			
422	U	3	6	7		K			S01	T04			
423	U	3	7	2		K			S01	T04			
424	U	3	7	3		K			S01	T04			
425	U	3	7	5		K			S01	T04			
426	U	3	7	6		K			S01	T04			
427	U	3	7	7		K			S01	T04			
428	U	3	7	8		K			S01	T04			
429	U	3	7	9		K			S01	T04			
430	U	3	8	1		K			S01	T04			
431	U	3	8	2		K			S01	T04			
432	U	3	8	3		K			S01	T04			
433	U	3	8	4		K			S01	T04			
434	U	3	8	5		K			S01	T04			
435	U	3	8	6		K			S01	T04			
436	U	3	8	7		K			S01	T04			
437	U	3	8	9		K			S01	T04			
438	U	3	9	0		K			S01	T04			
439	U	3	9	1		K			S01	T04			
440	U	3	9	2		K			S01	T04			
441	U	3	9	3		K			S01	T04			
442	U	3	9	4		K			S01	T04			
443	U	3	9	5		K			S01	T04			
444	U	3	9	6		K			S01	T04			
445	U	4	0	0		K			S01	T04			
446	U	4	0	1		K			S01	T04			
447	U	4	0	2		K			S01	T04			
448	U	4	0	3		K			S01	T04			
449	U	4	0	4		K			S01	T04			
450	U	4	0	7		K			S01	T04			
451	U	4	0	9		K			S01	T04			
452	U	4	1	0		K			S01	T04			
453	U	4	1	1		K			S01	T04			
454	W	T	0	1		K			S01	T04			
455	W	T	0	2		K			S01	T04			
456	W	P	0	1		K			S01	T04			
457	W	P	0	2		K			S01	T04			
458	W	P	0	3		K			S01	T04			
459	W	S	C	2		K			S01	T04			Included with above.

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

I.D. 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)		2. Process Description (if a code is not entered in D(1))		
460	D	0	0	1	80,000	K			S02	T01			Storage-Tank/Treatment-Tank
461	D	0	0	2		K			S02	T01			
462	D	0	0	3		K			S02	T01			
463	D	0	0	4		K			S02	T01			
464	D	0	0	5		K			S02	T01			
465	D	0	0	6		K			S02	T01			
466	D	0	0	7		K			S02	T01			
467	D	0	0	8		K			S02	T01			
468	D	0	0	9		K			S02	T01			
469	D	0	1	0		K			S02	T01			
470	D	0	1	1		K			S02	T01			
471	D	0	1	8		K			S02	T01			
472	D	0	1	9		K			S02	T01			
473	D	0	2	2		K			S02	T01			
474	D	0	2	8		K			S02	T01			
475	D	0	2	9		K			S02	T01			
476	D	0	3	0		K			S02	T01			
477	D	0	3	3		K			S02	T01			
478	D	0	3	4		K			S02	T01			
479	D	0	3	5		K			S02	T01			
480	D	0	3	6		K			S02	T01			
481	D	0	3	8		K			S02	T01			
482	D	0	3	9		K			S02	T01			
483	D	0	4	0		K			S02	T01			
484	D	0	4	1		K			S02	T01			
485	D	0	4	3		K			S02	T01			
486	W	T	0	1		K			S02	T01			
487	W	T	0	2		K			S02	T01			
488	W	P	0	1		K			S02	T01			
489	W	P	0	2		K			S02	T01			
490	W	S	C	2		K			S02	T01			
491	F	0	0	1		K			S02	T01			
492	F	0	0	2		K			S02	T01			
493	F	0	0	3		K			S02	T01			
494	F	0	0	4		K			S02	T01			
495	F	0	0	5		K			S02	T01			
496	F	0	3	9		K			S02	T01			

IV. DESCRIPTION OF DANGEROUS WASTE (continued)

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 analytical 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 drawings and photos.

LATITUDE (degrees, minutes, & seconds)				LONGITUDE (degrees, minutes, & seconds)			
46	22	68		119	16	42	

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 XI 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 Number (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) Lloyd L. Piper, Acting Manager U.S. Department of Energy Richland Operations Office	Signature L.L./ Piper	Date Signed Revision 4 signed 06/30/1997
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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) See attachment	Signature	Date Signed
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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

Owner/Operator
Lloyd L. Piper, Acting Manager
U.S. Department of Energy
Richland Operations Office

6/30/97

Date Revision 4 Signed

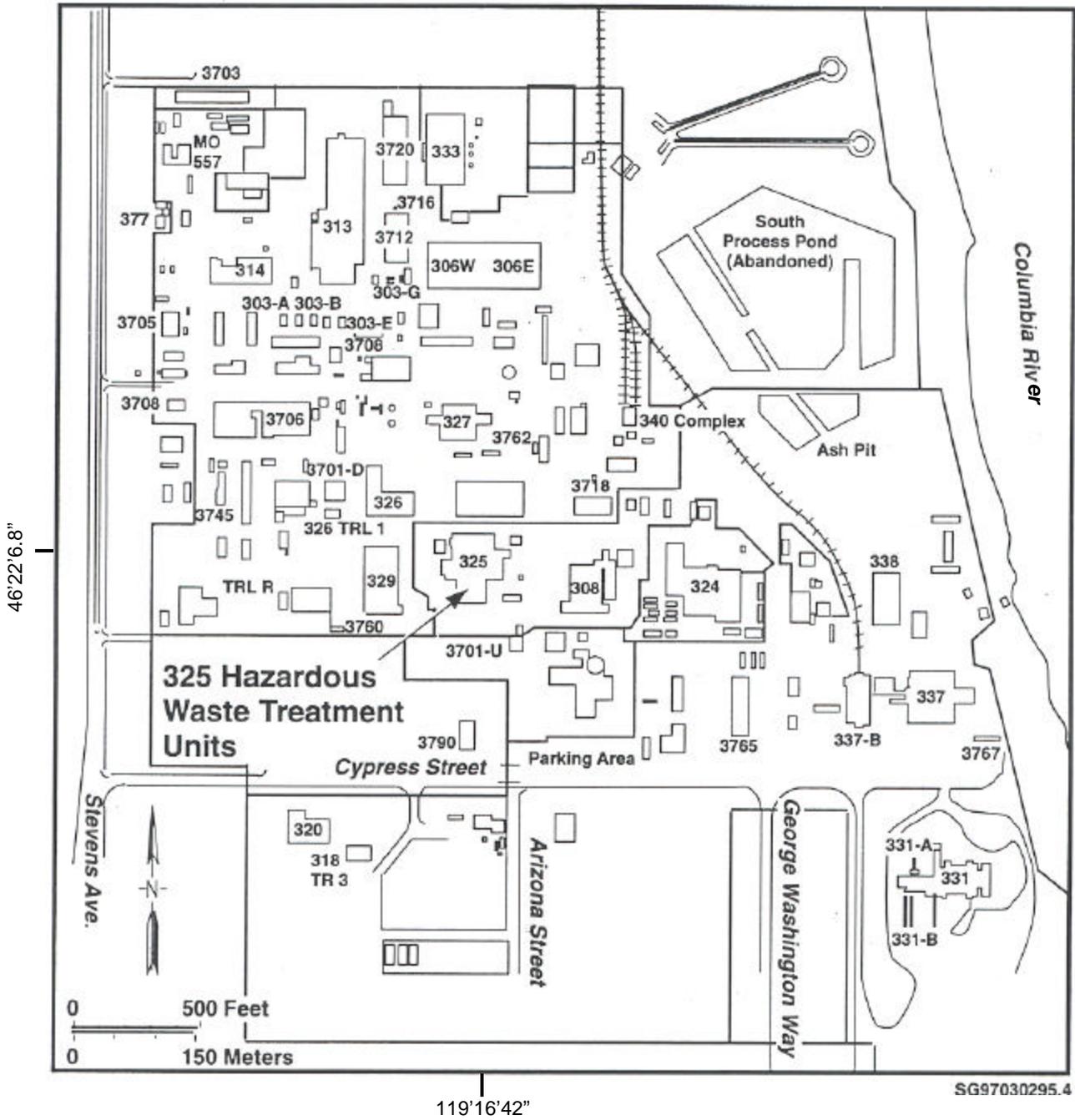
William J. Madia

Co-Operator
William J. Madia, Director
Pacific Northwest national Laboratory

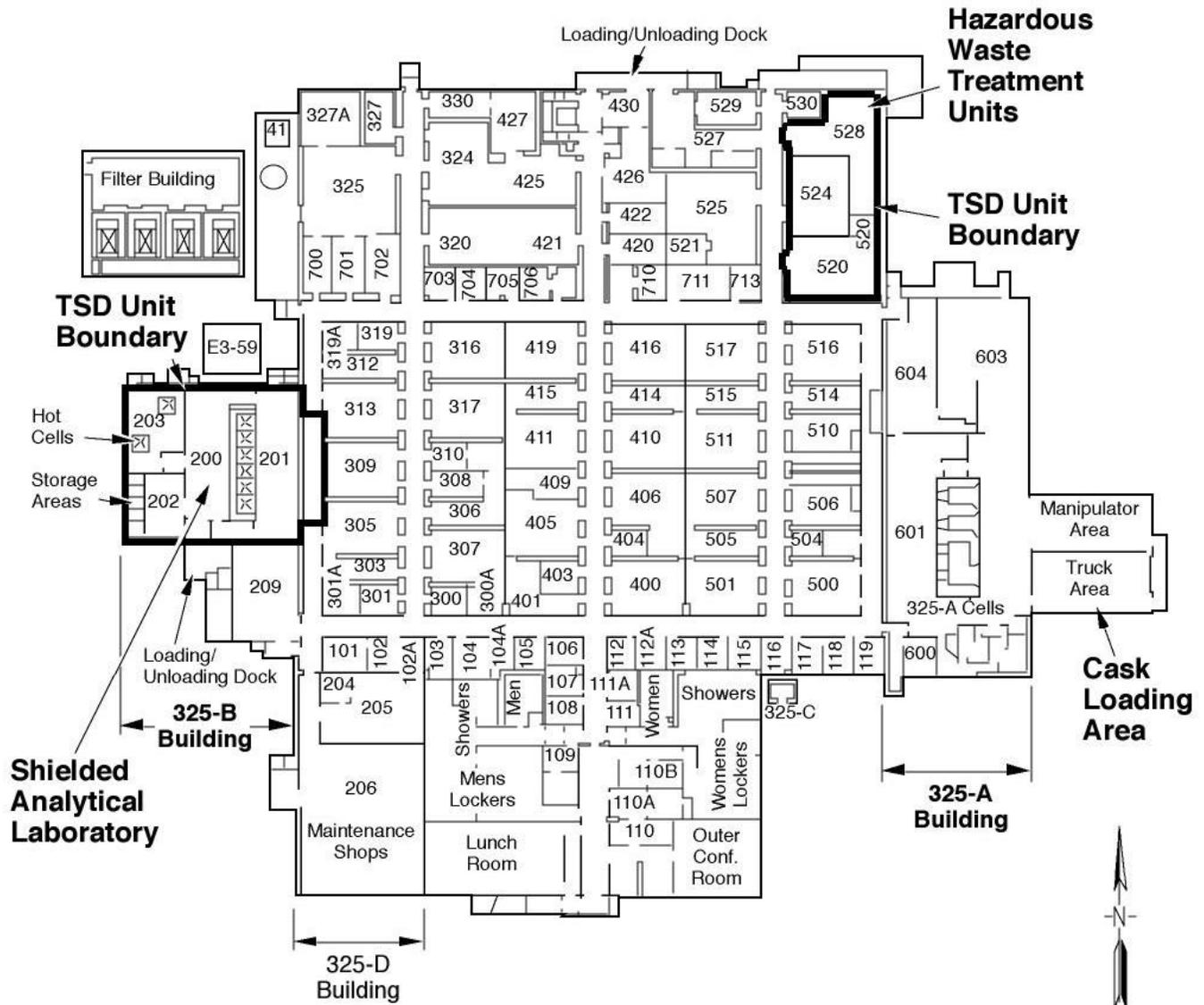
6/26/97

Date Revision 4 Signed

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

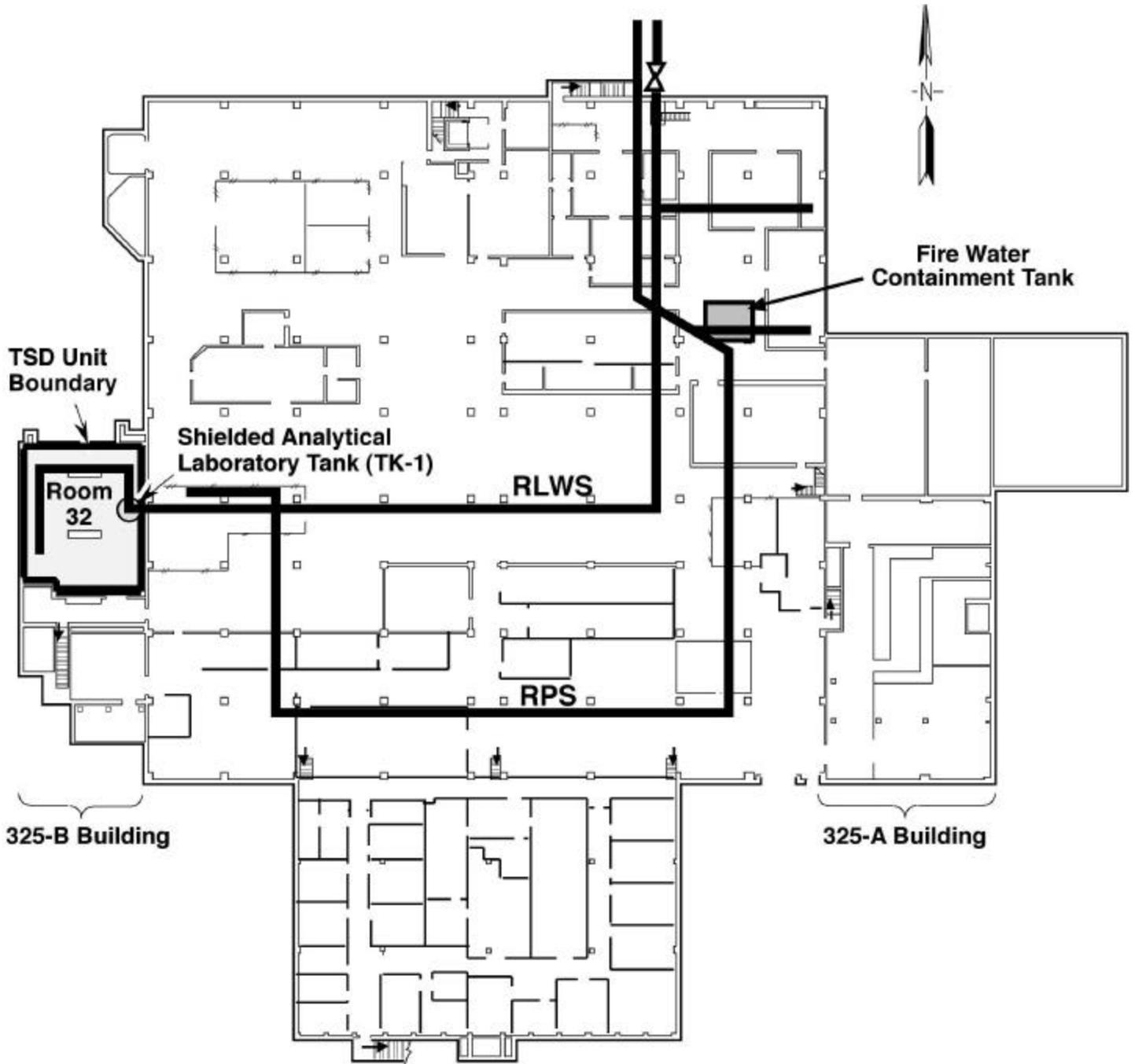


**Location of the Hazardous Waste Treatment Unit and Shielded Analytical Laboratory
(main floor).**



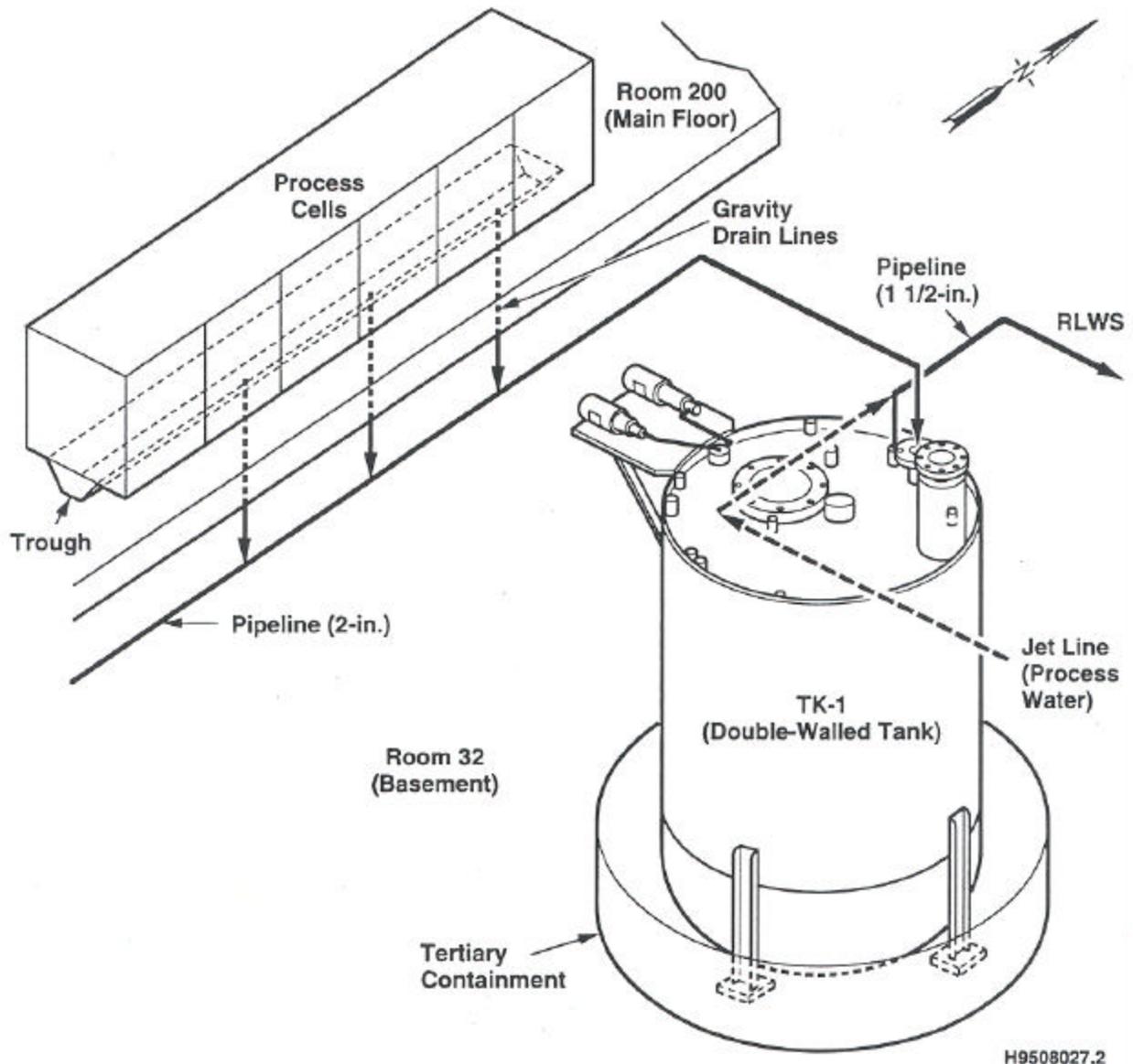
MO203-12.1
3-14-02

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

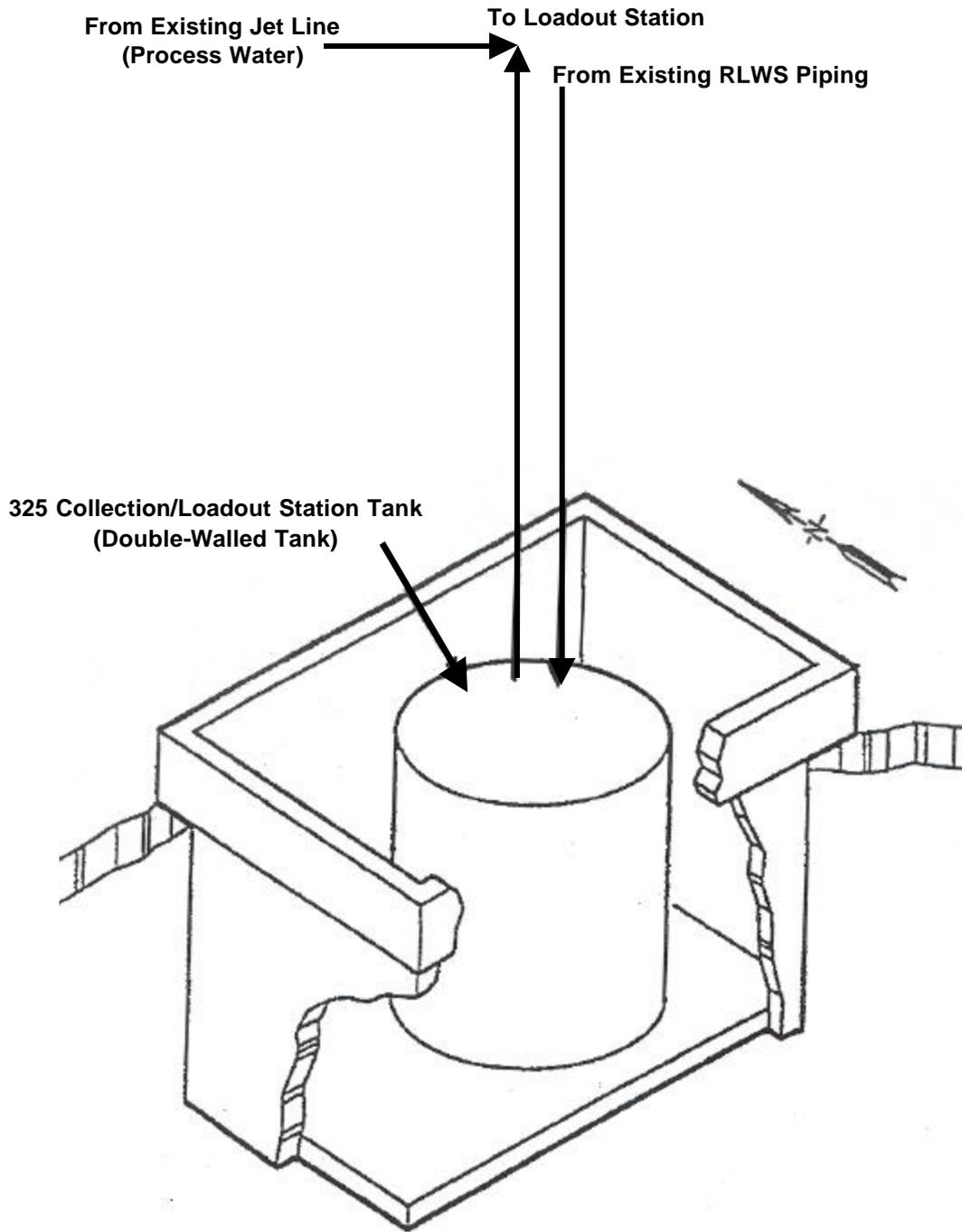


M0203-12.2
3-15-02

Shielded Analytical Laboratory Tank and Ancillary Piping.



325 Collection/Loadout Station Tank



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 Units
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"

(Photo Taken 1999)