

0038491

Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

JUN 22 1993

93-RPS-214

Mr. George C. Hofer
Hanford Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue
Seattle, Washington 98101

Mr. Roger F. Stanley, Director
Tri-Party Agreement Implementation
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600



Dear Messrs. Hofer and Stanley:

325/3100 HAZARDOUS WASTE TREATMENT UNIT DANGEROUS WASTE PERMIT APPLICATION:
PROCESS DESCRIPTION AND WASTE TREATMENT CODE CHANGES

This letter transmits the U.S. Department of Energy, Richland Operations Office (RL)/Pacific Northwest Laboratory (PNL) revision of the 325/3100 Hazardous Waste Treatment Unit Dangerous Waste Permit Application, Form 3 (Part A).

The changes made in this permit application include the following:

- Define more accurately the activities proposed to occur within the 325 portion (325 HWTU) of the 325/3100 Hazardous Waste Treatment Unit. Earlier revisions to the application limited the processes to be conducted in the 325 HWTU to stabilization and alkali metal treatments. The revised permit application specifies the treatments to be conducted in the 325 HWTU: pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, liquid/solids separation, catalytic destruction, grouting, encapsulation, and stabilization.
- Add waste codes inadvertently left out of the most recent revision.
- Correct the total storage capacity of the 325/3100 Hazardous Waste Treatment Unit to 5500 gallons to accurately reflect the combined storage capacity of both treatment portions. The storage capacity specified for the 325 HWTU has been reduced from 1000 to 500 gallons.

No changes have been made to the proposed activities or to the proposed storage capacity for the 3100 portion of the 325/3100 Hazardous Waste Treatment Unit at this time.

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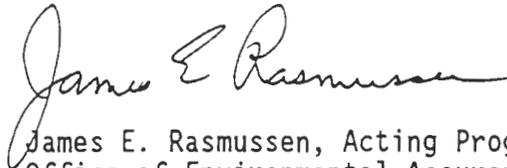
Messrs. Hofer and Stanley
93-RPS-214

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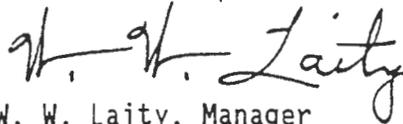
The enclosed revised Part A is being submitted in compliance with WAC-173-303-805. This regulation required submittal of a revised Part A prior to process additions, process changes and design capacity increases and whenever previously unidentified wastes will be treated, stored, or disposed of at an interim status unit.

If you have any questions regarding the enclosed Part A, please contact Mr. C. E. Clark of RL on (509) 376-9333, or Mr. H. T. Tilden of PNL on (509) 376-0499.

Sincerely,



James E. Rasmussen, Acting Program Manager
Office of Environmental Assurance,
Permits, and Policy
DOE Richland Operations Office



W. W. Laity, Manager
Materials and Chemical Sciences
Pacific Northwest Laboratory

EAP:CEC

Enclosure

cc w/encl:

W. W. Laity, PNL

D. L. Duncan, EPA (2)

T. M. Michelena, Ecology

D. C. Nylander, Ecology

A. W. Conklin, DOH

J. J. Wallace, Ecology

Administrative Record (T-3-4)

94322 0095
9600 267346

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	1. EPA/STATE I.D. NUMBER <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <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		COMMENTS
APPLICATION APPROVED	DATE RECEIVED (mo., day, & yr.)	

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 (See instructions for definition of "existing" facility. Complete item below.) <table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">MO.</td> <td style="border: 1px solid black; padding: 2px;">DAY</td> <td style="border: 1px solid black; padding: 2px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table> FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)	MO.	DAY	YR.				<input type="checkbox"/> 2. NEW FACILITY (Complete item below) <table style="display: inline-table; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">MO.</td> <td style="border: 1px solid black; padding: 2px;">DAY</td> <td style="border: 1px solid black; padding: 2px;">YR.</td> </tr> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table> FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN	MO.	DAY	YR.			
MO.	DAY	YR.											
MO.	DAY	YR.											

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

<input checked="" type="checkbox"/> 1. FACILITY HAS AN INTERIM STATUS PERMIT	<input type="checkbox"/> 2. FACILITY HAS A FINAL PERMIT
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III. PROCESSES - 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	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; 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	F
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	B
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

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

LINE NUMBER	A. PRO-CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO-CESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY
		1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)				1. AMOUNT (specify)	2. UNIT OF MEASURE (enter code)	
X-1	S 0 2	600	G		5				
X-2	T 0 3	20	E		6				
1	T 0 4	(annual average) 30	U		7				
2	S 0 1	5500	G		8				
3					9				
4					10				

Continued from the front.

III. PROCESSES (continued)

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

The 325 Hazardous Waste Treatment Unit (325 HWTU) is located in rooms 520, 527A and 528 of the 325 Building. Approximately 55 gallons of radioactive mixed waste can be treated per day in the 325 HWTU. Treatments will include pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, liquid/solids separation, catalytic destruction, grouting, encapsulation, and stabilization.

The 3100 Hazardous Waste Treatment Unit (3100 HWTU) will be a single story building with an area of approximately 10,500 square feet. Approximately 10,000 gallons of dangerous waste will be treated annually in this unit. Treatment will include carbon absorption, oxidation, reduction, deactivation, vitrification, liquid-liquid extraction, encapsulation, neutralization, precipitation, recovery of acids and bases, recovery of organics, recovery of metals or inorganics, stabilization, controlled reaction with water, photo catalytic destruction, and ceramic melting.

Storage capacity in the 325 HWTU is 500 gallons and in the 3100 HWTU will be 5,000 gallons.

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 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. 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)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
X-1	K 0 5 4	900	P	T 0 3 D 8 0	
X-2	D 0 0 2	400	P	T 0 3 D 8 0	
X-3	D 0 0 1	100	P	T 0 3 D 8 0	
X-4	D 0 0 2			T 0 3 D 8 0	included with above

Continued from page 2.

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

I.D. NUMBER (entered 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	10,000	K	S 0 1 T 0 4	Treatment
2	D 0 0 2	5,000	K	S 0 1 T 0 4	Treatment
3	D 0 0 3	500	K	S 0 1 T 0 4	Treatment
4	D 0 0 4	200	K	S 0 1 T 0 4	Treatment
5	D 0 0 5	200	K	S 0 1 T 0 4	Treatment
6	D 0 0 6	200	K	S 0 1 T 0 4	Treatment
7	D 0 0 7	10,000	K	S 0 1 T 0 4	Treatment
8	D 0 0 8	50,000	K	S 0 1 T 0 4	Treatment
9	D 0 0 9	400	K	S 0 1 T 0 4	Treatment
10	D 0 1 0	50	K	S 0 1 T 0 4	Treatment
11	D 0 1 1	200	K	S 0 1 T 0 4	Treatment
12	D 0 1 2	200	K	S 0 1 T 0 4	Treatment
13	D 0 1 3	200	K	S 0 1 T 0 4	Treatment
14	D 0 1 4	200	K	S 0 1 T 0 4	Treatment
15	D 0 1 5	200	K	S 0 1 T 0 4	Treatment
16	D 0 1 6	200	K	S 0 1 T 0 4	Treatment
17	D 0 1 7	200	K	S 0 1 T 0 4	Treatment
18	D 0 1 8	200	K	S 0 1 T 0 4	Treatment
19	D 0 1 9	200	K	S 0 1 T 0 4	Treatment
20	D 0 2 0	200	K	S 0 1 T 0 4	Treatment
21	D 0 2 1	200	K	S 0 1 T 0 4	Treatment
22	D 0 2 2	200	K	S 0 1 T 0 4	Treatment
23	D 0 2 3	200	K	S 0 1 T 0 4	Treatment
24	D 0 2 4	200	K	S 0 1 T 0 4	Treatment
25	D 0 2 5	200	K	S 0 1 T 0 4	Treatment
26	D 0 2 6	2,000	K	S 0 1 T 0 4	Treatment

Continued from page 2.

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

I.D. NUMBER (entered 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 2 7	200	K	S 0 1 T 0 4	Treatment
2	D 0 2 8	200	K	S 0 1 T 0 4	Treatment
3	D 0 2 9	200	K	S 0 1 T 0 4	Treatment
4	D 0 3 0	200	K	S 0 1 T 0 4	Treatment
5	D 0 3 1	200	K	S 0 1 T 0 4	Treatment
6	D 0 3 2	200	K	S 0 1 T 0 4	Treatment
7	D 0 3 3	200	K	S 0 1 T 0 4	Treatment
8	D 0 3 4	200	K	S 0 1 T 0 4	Treatment
9	D 0 3 5	200	K	S 0 1 T 0 4	Treatment
10	D 0 3 6	200	K	S 0 1 T 0 4	Treatment
11	D 0 3 7	200	K	S 0 1 T 0 4	Treatment
12	D 0 3 8	200	K	S 0 1 T 0 4	Treatment
13	D 0 3 9	200	K	S 0 1 T 0 4	Treatment
14	D 0 4 0	200	K	S 0 1 T 0 4	Treatment
15	D 0 4 1	200	K	S 0 1 T 0 4	Treatment
16	D 0 4 2	200	K	S 0 1 T 0 4	Treatment
17	D 0 4 3	200	K	S 0 1 T 0 4	Treatment
18	F 0 0 1	2,000	K	S 0 1 T 0 4	Treatment
19	F 0 0 2	2,000	K	S 0 1 T 0 4	Treatment
20	F 0 0 3	3,000	K	S 0 1 T 0 4	Treatment
21	F 0 0 4	1,000	K	S 0 1 T 0 4	Treatment
22	F 0 0 5	2,000	K	S 0 1 T 0 4	Treatment
23	F 0 2 7	200	K	S 0 1 T 0 4	Treatment
24	K 0 1 1	200	K	S 0 1 T 0 4	Treatment
25	K 0 1 3	200	K	S 0 1 T 0 4	Treatment
26	K 0 4 8	200	K	S 0 1 T 0 4	Treatment

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

I.D. NUMBER (entered 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	K 0 4 9	200	K	S O I T O 4	Treatment
2	K 0 5 0	200	K	S O I T O 4	Treatment
3	K 0 5 1	200	K	S O I T O 4	Treatment
4	K 0 5 2	200	K	S O I T O 4	Treatment
5	P 0 0 1	200	K	S O I T O 4	Treatment
6	P 0 0 2	200	K	S O I T O 4	Treatment
7	P 0 0 3	200	K	S O I T O 4	Treatment
8	P 0 0 4	200	K	S O I T O 4	Treatment
9	P 0 0 5	200	K	S O I T O 4	Treatment
10	P 0 0 6	200	K	S O I T O 4	Treatment
11	P 0 0 7	200	K	S O I T O 4	Treatment
12	P 0 0 8	200	K	S O I T O 4	Treatment
13	P 0 0 9	200	K	S O I T O 4	Treatment
14	P 0 1 0	200	K	S O I T O 4	Treatment
15	P 0 1 1	200	K	S O I T O 4	Treatment
16	P 0 1 2	200	K	S O I T O 4	Treatment
17	P 0 1 3	200	K	S O I T O 4	Treatment
18	P 0 1 4	200	K	S O I T O 4	Treatment
19	P 0 1 5	200	K	S O I T O 4	Treatment
20	P 0 1 6	200	K	S O I T O 4	Treatment
21	P 0 1 7	200	K	S O I T O 4	Treatment
22	P 0 1 8	200	K	S O I T O 4	Treatment
23	P 0 1 9	200	K	S O I T O 4	Treatment
24	P 0 2 0	200	K	S O I T O 4	Treatment
25	P 0 2 1	200	K	S O I T O 4	Treatment
26	P 0 2 2	200	K	S O I T O 4	Treatment

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I.D. NUMBER (entered from page 1)

WA 78900018967

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 D11)
1	P 0 2 3	200	K	S 0 1 T 0 4	Treatment
2	P 0 2 4	200	K	S 0 1 T 0 4	Treatment
3	P 0 2 6	200	K	S 0 1 T 0 4	Treatment
4	P 0 2 7	200	K	S 0 1 T 0 4	Treatment
5	P 0 2 8	200	K	S 0 1 T 0 4	Treatment
6	P 0 2 9	200	K	S 0 1 T 0 4	Treatment
7	P 0 3 0	200	K	S 0 1 T 0 4	Treatment
8	P 0 3 1	200	K	S 0 1 T 0 4	Treatment
9	P 0 3 3	200	K	S 0 1 T 0 4	Treatment
10	P 0 3 4	200	K	S 0 1 T 0 4	Treatment
11	P 0 3 5	200	K	S 0 1 T 0 4	Treatment
12	P 0 3 6	200	K	S 0 1 T 0 4	Treatment
13	P 0 3 7	200	K	S 0 1 T 0 4	Treatment
14	P 0 3 8	200	K	S 0 1 T 0 4	Treatment
15	P 0 3 9	200	K	S 0 1 T 0 4	Treatment
16	P 0 4 0	200	K	S 0 1 T 0 4	Treatment
17	P 0 4 1	200	K	S 0 1 T 0 4	Treatment
18	P 0 4 2	200	K	S 0 1 T 0 4	Treatment
19	P 0 4 3	200	K	S 0 1 T 0 4	Treatment
20	P 0 4 4	200	K	S 0 1 T 0 4	Treatment
21	P 0 4 5	200	K	S 0 1 T 0 4	Treatment
22	P 0 4 6	200	K	S 0 1 T 0 4	Treatment
23	P 0 4 7	200	K	S 0 1 T 0 4	Treatment
24	P 0 4 8	200	K	S 0 1 T 0 4	Treatment
25	P 0 4 9	200	K	S 0 1 T 0 4	Treatment
26	P 0 5 0	200	K	S 0 1 T 0 4	Treatment

DWA 2002-0200

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

I.D. NUMBER (entered from page 1)
 WA 7890008967

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

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)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	P 0 5 1	200	K	S 0 1 T 0 4	Treatment
2	P 0 5 3	200	K	S 0 1 T 0 4	Treatment
3	P 0 5 4	200	K	S 0 1 T 0 4	Treatment
4	P 0 5 6	200	K	S 0 1 T 0 4	Treatment
5	P 0 5 7	200	K	S 0 1 T 0 4	Treatment
6	P 0 5 8	200	K	S 0 1 T 0 4	Treatment
7	P 0 5 9	200	K	S 0 1 T 0 4	Treatment
8	P 0 6 0	200	K	S 0 1 T 0 4	Treatment
9	P 0 6 2	200	K	S 0 1 T 0 4	Treatment
10	P 0 6 3	200	K	S 0 1 T 0 4	Treatment
11	P 0 6 4	200	K	S 0 1 T 0 4	Treatment
12	P 0 6 5	200	K	S 0 1 T 0 4	Treatment
13	P 0 6 6	200	K	S 0 1 T 0 4	Treatment
14	P 0 6 7	200	K	S 0 1 T 0 4	Treatment
15	P 0 6 8	200	K	S 0 1 T 0 4	Treatment
16	P 0 6 9	200	K	S 0 1 T 0 4	Treatment
17	P 0 7 0	200	K	S 0 1 T 0 4	Treatment
18	P 0 7 1	200	K	S 0 1 T 0 4	Treatment
19	P 0 7 2	200	K	S 0 1 T 0 4	Treatment
20	P 0 7 3	200	K	S 0 1 T 0 4	Treatment
21	P 0 7 4	200	K	S 0 1 T 0 4	Treatment
22	P 0 7 5	200	K	S 0 1 T 0 4	Treatment
23	P 0 7 6	200	K	S 0 1 T 0 4	Treatment
24	P 0 7 7	200	K	S 0 1 T 0 4	Treatment
25	P 0 7 8	200	K	S 0 1 T 0 4	Treatment
26	P 0 7 9	200	K	S 0 1 T 0 4	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered from page 1)
 W A 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANZEROUS 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	P 0 8 1	200	K	S 0 1 T 0 4	Treatment
2	P 0 8 2	200	K	S 0 1 T 0 4	Treatment
3	P 0 8 4	200	K	S 0 1 T 0 4	Treatment
4	P 0 8 5	200	K	S 0 1 T 0 4	Treatment
5	P 0 8 7	200	K	S 0 1 T 0 4	Treatment
6	P 0 8 8	200	K	S 0 1 T 0 4	Treatment
7	P 0 8 9	200	K	S 0 1 T 0 4	Treatment
8	P 0 9 2	200	K	S 0 1 T 0 4	Treatment
9	P 0 9 3	200	K	S 0 1 T 0 4	Treatment
10	P 0 9 4	200	K	S 0 1 T 0 4	Treatment
11	P 0 9 5	200	K	S 0 1 T 0 4	Treatment
12	P 0 9 6	200	K	S 0 1 T 0 4	Treatment
13	P 0 9 7	200	K	S 0 1 T 0 4	Treatment
14	P 0 9 8	200	K	S 0 1 T 0 4	Treatment
15	P 0 9 9	200	K	S 0 1 T 0 4	Treatment
16	P 1 0 1	200	K	S 0 1 T 0 4	Treatment
17	P 1 0 2	200	K	S 0 1 T 0 4	Treatment
18	P 1 0 3	200	K	S 0 1 T 0 4	Treatment
19	P 1 0 4	200	K	S 0 1 T 0 4	Treatment
20	P 1 0 5	200	K	S 0 1 T 0 4	Treatment
21	P 1 0 6	200	K	S 0 1 T 0 4	Treatment
22	P 1 0 7	200	K	S 0 1 T 0 4	Treatment
23	P 1 0 8	200	K	S 0 1 T 0 4	Treatment
24	P 1 0 9	200	K	S 0 1 T 0 4	Treatment
25	P 1 1 0	200	K	S 0 1 T 0 4	Treatment
26	P 1 1 1	200	K	S 0 1 T 0 4	Treatment

DU 292 020

Continued from page 2.

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

I.D. NUMBER (entered 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	P 1 1 2	200	K	S O 1 T O 4	Treatment
2	P 1 1 3	200	K	S O 1 T O 4	Treatment
3	P 1 1 4	200	K	S O 1 T O 4	Treatment
4	P 1 1 5	200	K	S O 1 T O 4	Treatment
5	P 1 1 6	200	K	S O 1 T O 4	Treatment
6	P 1 1 8	200	K	S O 1 T O 4	Treatment
7	P 1 1 9	200	K	S O 1 T O 4	Treatment
8	P 1 2 0	200	K	S O 1 T O 4	Treatment
9	P 1 2 1	200	K	S O 1 T O 4	Treatment
10	P 1 2 2	200	K	S O 1 T O 4	Treatment
11	P 1 2 3	200	K	S O 1 T O 4	Treatment
12	U 0 0 1	200	K	S O 1 T O 4	Treatment
13	U 0 0 2	200	K	S O 1 T O 4	Treatment
14	U 0 0 3	200	K	S O 1 T O 4	Treatment
15	U 0 0 4	200	K	S O 1 T O 4	Treatment
16	U 0 0 5	200	K	S O 1 T O 4	Treatment
17	U 0 0 6	200	K	S O 1 T O 4	Treatment
18	U 0 0 7	200	K	S O 1 T O 4	Treatment
19	U 0 0 8	200	K	S O 1 T O 4	Treatment
20	U 0 0 9	200	K	S O 1 T O 4	Treatment
21	U 0 1 0	200	K	S O 1 T O 4	Treatment
22	U 0 1 1	200	K	S O 1 T O 4	Treatment
23	U 0 1 2	200	K	S O 1 T O 4	Treatment
24	U 0 1 4	200	K	S O 1 T O 4	Treatment
25	U 0 1 5	200	K	S O 1 T O 4	Treatment
26	U 0 1 6	200	K	S O 1 T O 4	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered 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	U 0 4 4	200	K	S 0 1 T 0 4	Treatment
2	U 0 4 5	200	K	S 0 1 T 0 4	Treatment
3	U 0 4 6	200	K	S 0 1 T 0 4	Treatment
4	U 0 4 7	200	K	S 0 1 T 0 4	Treatment
5	U 0 4 8	200	K	S 0 1 T 0 4	Treatment
6	U 0 4 9	200	K	S 0 1 T 0 4	Treatment
7	U 0 5 0	200	K	S 0 1 T 0 4	Treatment
8	U 0 5 1	200	K	S 0 1 T 0 4	Treatment
9	U 0 5 2	200	K	S 0 1 T 0 4	Treatment
10	U 0 5 3	200	K	S 0 1 T 0 4	Treatment
11	U 0 5 5	200	K	S 0 1 T 0 4	Treatment
12	U 0 5 6	200	K	S 0 1 T 0 4	Treatment
13	U 0 5 7	200	K	S 0 1 T 0 4	Treatment
14	U 0 5 8	200	K	S 0 1 T 0 4	Treatment
15	U 0 5 9	200	K	S 0 1 T 0 4	Treatment
16	U 0 6 0	200	K	S 0 1 T 0 4	Treatment
17	U 0 6 1	200	K	S 0 1 T 0 4	Treatment
18	U 0 6 2	200	K	S 0 1 T 0 4	Treatment
19	U 0 6 3	200	K	S 0 1 T 0 4	Treatment
20	U 0 6 4	200	K	S 0 1 T 0 4	Treatment
21	U 0 6 6	200	K	S 0 1 T 0 4	Treatment
22	U 0 6 7	200	K	S 0 1 T 0 4	Treatment
23	U 0 6 8	200	K	S 0 1 T 0 4	Treatment
24	U 0 6 9	200	K	S 0 1 T 0 4	Treatment
25	U 0 7 0	200	K	S 0 1 T 0 4	Treatment
26	U 0 7 1	200	K	S 0 1 T 0 4	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered from page 1)
 WA7890008967

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	U072	200	K	S01T04	Treatment
2	U073	200	K	S01T04	Treatment
3	U074	200	K	S01T04	Treatment
4	U075	200	K	S01T04	Treatment
5	U076	200	K	S01T04	Treatment
6	U077	200	K	S01T04	Treatment
7	U078	200	K	S01T04	Treatment
8	U079	200	K	S01T04	Treatment
9	U080	200	K	S01T04	Treatment
10	U081	200	K	S01T04	Treatment
11	U082	200	K	S01T04	Treatment
12	U083	200	K	S01T04	Treatment
13	U084	200	K	S01T04	Treatment
14	U085	200	K	S01T04	Treatment
15	U086	200	K	S01T04	Treatment
16	U087	200	K	S01T04	Treatment
17	U088	200	K	S01T04	Treatment
18	U089	200	K	S01T04	Treatment
19	U090	200	K	S01T04	Treatment
20	U091	200	K	S01T04	Treatment
21	U092	200	K	S01T04	Treatment
22	U093	200	K	S01T04	Treatment
23	U094	200	K	S01T04	Treatment
24	U095	200	K	S01T04	Treatment
25	U096	200	K	S01T04	Treatment
26	U097	200	K	S01T04	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered from page 1)

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

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

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)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 0 9 8	200	K	S 0 1 T 0 4	Treatment
2	U 0 9 9	200	K	S 0 1 T 0 4	Treatment
3	U 1 0 1	200	K	S 0 1 T 0 4	Treatment
4	U 1 0 2	200	K	S 0 1 T 0 4	Treatment
5	U 1 0 3	200	K	S 0 1 T 0 4	Treatment
6	U 1 0 5	200	K	S 0 1 T 0 4	Treatment
7	U 1 0 6	200	K	S 0 1 T 0 4	Treatment
8	U 1 0 7	200	K	S 0 1 T 0 4	Treatment
9	U 1 0 8	200	K	S 0 1 T 0 4	Treatment
10	U 1 0 9	200	K	S 0 1 T 0 4	Treatment
11	U 1 1 0	200	K	S 0 1 T 0 4	Treatment
12	U 1 1 1	200	K	S 0 1 T 0 4	Treatment
13	U 1 1 2	200	K	S 0 1 T 0 4	Treatment
14	U 1 1 3	200	K	S 0 1 T 0 4	Treatment
15	U 1 1 4	200	K	S 0 1 T 0 4	Treatment
16	U 1 1 5	200	K	S 0 1 T 0 4	Treatment
17	U 1 1 6	200	K	S 0 1 T 0 4	Treatment
18	U 1 1 7	200	K	S 0 1 T 0 4	Treatment
19	U 1 1 8	200	K	S 0 1 T 0 4	Treatment
20	U 1 1 9	200	K	S 0 1 T 0 4	Treatment
21	U 1 2 0	200	K	S 0 1 T 0 4	Treatment
22	U 1 2 1	200	K	S 0 1 T 0 4	Treatment
23	U 1 2 2	200	K	S 0 1 T 0 4	Treatment
24	U 1 2 3	200	K	S 0 1 T 0 4	Treatment
25	U 1 2 4	200	K	S 0 1 T 0 4	Treatment
26	U 1 2 5	200	K	S 0 1 T 0 4	Treatment

Continued from page 2.

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

I.D. NUMBER (entered from page 1)										
W A 7 8 9 0 0 0 8 9 6 7										
IV. DESCRIPTION OF DANGEROUS WASTES (continued)										
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)						2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 1 2 6	200	K	S	0	1	T	0	4	Treatment
2	U 1 2 7	200	K	S	0	1	T	0	4	Treatment
3	U 1 2 8	200	K	S	0	1	T	0	4	Treatment
4	U 1 2 9	200	K	S	0	1	T	0	4	Treatment
5	U 1 3 0	200	K	S	0	1	T	0	4	Treatment
6	U 1 3 1	200	K	S	0	1	T	0	4	Treatment
7	U 1 3 2	200	K	S	0	1	T	0	4	Treatment
8	U 1 3 3	200	K	S	0	1	T	0	4	Treatment
9	U 1 3 4	200	K	S	0	1	T	0	4	Treatment
10	U 1 3 5	200	K	S	0	1	T	0	4	Treatment
11	U 1 3 6	200	K	S	0	1	T	0	4	Treatment
12	U 1 3 7	200	K	S	0	1	T	0	4	Treatment
13	U 1 3 8	200	K	S	0	1	T	0	4	Treatment
14	U 1 3 9	200	K	S	0	1	T	0	4	Treatment
15	U 1 4 0	200	K	S	0	1	T	0	4	Treatment
16	U 1 4 1	200	K	S	0	1	T	0	4	Treatment
17	U 1 4 2	200	K	S	0	1	T	0	4	Treatment
18	U 1 4 3	200	K	S	0	1	T	0	4	Treatment
19	U 1 4 4	200	K	S	0	1	T	0	4	Treatment
20	U 1 4 5	200	K	S	0	1	T	0	4	Treatment
21	U 1 4 6	200	K	S	0	1	T	0	4	Treatment
22	U 1 4 7	200	K	S	0	1	T	0	4	Treatment
23	U 1 4 8	200	K	S	0	1	T	0	4	Treatment
24	U 1 4 9	200	K	S	0	1	T	0	4	Treatment
25	U 1 5 0	200	K	S	0	1	T	0	4	Treatment
26	U 1 5 1	200	K	S	0	1	T	0	4	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered from page 1)
 WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

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)	2. PROCESS DESCRIPTION (if a code is not entered in D(1))
1	U 1 5 2	200	K	S 0 1 T 0 4	Treatment
2	U 1 5 3	200	K	S 0 1 T 0 4	Treatment
3	U 1 5 4	200	K	S 0 1 T 0 4	Treatment
4	U 1 5 5	200	K	S 0 1 T 0 4	Treatment
5	U 1 5 6	200	K	S 0 1 T 0 4	Treatment
6	U 1 5 7	200	K	S 0 1 T 0 4	Treatment
7	U 1 5 8	200	K	S 0 1 T 0 4	Treatment
8	U 1 5 9	200	K	S 0 1 T 0 4	Treatment
9	U 1 6 0	200	K	S 0 1 T 0 4	Treatment
10	U 1 6 1	200	K	S 0 1 T 0 4	Treatment
11	U 1 6 2	200	K	S 0 1 T 0 4	Treatment
12	U 1 6 3	200	K	S 0 1 T 0 4	Treatment
13	U 1 6 4	200	K	S 0 1 T 0 4	Treatment
14	U 1 6 5	200	K	S 0 1 T 0 4	Treatment
15	U 1 6 6	200	K	S 0 1 T 0 4	Treatment
16	U 1 6 7	200	K	S 0 1 T 0 4	Treatment
17	U 1 6 8	200	K	S 0 1 T 0 4	Treatment
18	U 1 6 9	200	K	S 0 1 T 0 4	Treatment
19	U 1 7 0	200	K	S 0 1 T 0 4	Treatment
20	U 1 7 1	200	K	S 0 1 T 0 4	Treatment
21	U 1 7 2	200	K	S 0 1 T 0 4	Treatment
22	U 1 7 3	200	K	S 0 1 T 0 4	Treatment
23	U 1 7 4	200	K	S 0 1 T 0 4	Treatment
24	U 1 7 6	200	K	S 0 1 T 0 4	Treatment
25	U 1 7 7	200	K	S 0 1 T 0 4	Treatment
26	U 1 7 8	200	K	S 0 1 T 0 4	Treatment

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

I.D. NUMBER (entered from page 1)
 WA 7 8 9 0 0 0 B 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	U 1 7 9	200	K	S 0 1 T 0 4	Treatment
2	U 1 8 0	200	K	S 0 1 T 0 4	Treatment
3	U 1 8 1	200	K	S 0 1 T 0 4	Treatment
4	U 1 8 2	200	K	S 0 1 T 0 4	Treatment
5	U 1 8 3	200	K	S 0 1 T 0 4	Treatment
6	U 1 8 4	200	K	S 0 1 T 0 4	Treatment
7	U 1 8 5	200	K	S 0 1 T 0 4	Treatment
8	U 1 8 6	200	K	S 0 1 T 0 4	Treatment
9	U 1 8 7	200	K	S 0 1 T 0 4	Treatment
10	U 1 8 8	200	K	S 0 1 T 0 4	Treatment
11	U 1 8 9	200	K	S 0 1 T 0 4	Treatment
12	U 1 9 0	200	K	S 0 1 T 0 4	Treatment
13	U 1 9 1	200	K	S 0 1 T 0 4	Treatment
14	U 1 9 2	200	K	S 0 1 T 0 4	Treatment
15	U 1 9 3	200	K	S 0 1 T 0 4	Treatment
16	U 1 9 4	200	K	S 0 1 T 0 4	Treatment
17	U 1 9 6	200	K	S 0 1 T 0 4	Treatment
18	U 1 9 7	200	K	S 0 1 T 0 4	Treatment
19	U 2 0 0	200	K	S 0 1 T 0 4	Treatment
20	U 2 0 1	200	K	S 0 1 T 0 4	Treatment
21	U 2 0 2	200	K	S 0 1 T 0 4	Treatment
22	U 2 0 3	200	K	S 0 1 T 0 4	Treatment
23	U 2 0 4	200	K	S 0 1 T 0 4	Treatment
24	U 2 0 5	200	K	S 0 1 T 0 4	Treatment
25	U 2 0 6	200	K	S 0 1 T 0 4	Treatment
26	U 2 0 7	200	K	S 0 1 T 0 4	Treatment

Continued from page 2.
 NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

I.D. NUMBER (entered from page 1)
 WA7890008967

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	U 2 0 8	200	K	S 0 1 T 0 4	Treatment
2	U 2 0 9	200	K	S 0 1 T 0 4	Treatment
3	U 2 1 0	200	K	S 0 1 T 0 4	Treatment
4	U 2 1 1	200	K	S 0 1 T 0 4	Treatment
5	U 2 1 2	200	K	S 0 1 T 0 4	Treatment
6	U 2 1 3	200	K	S 0 1 T 0 4	Treatment
7	U 2 1 4	200	K	S 0 1 T 0 4	Treatment
8	U 2 1 5	200	K	S 0 1 T 0 4	Treatment
9	U 2 1 6	200	K	S 0 1 T 0 4	Treatment
10	U 2 1 7	200	K	S 0 1 T 0 4	Treatment
11	U 2 1 8	200	K	S 0 1 T 0 4	Treatment
12	U 2 1 9	200	K	S 0 1 T 0 4	Treatment
13	U 2 2 0	200	K	S 0 1 T 0 4	Treatment
14	U 2 2 1	200	K	S 0 1 T 0 4	Treatment
15	U 2 2 2	200	K	S 0 1 T 0 4	Treatment
16	U 2 2 3	200	K	S 0 1 T 0 4	Treatment
17	U 2 2 5	200	K	S 0 1 T 0 4	Treatment
18	U 2 2 6	200	K	S 0 1 T 0 4	Treatment
19	U 2 2 7	200	K	S 0 1 T 0 4	Treatment
20	U 2 2 8	200	K	S 0 1 T 0 4	Treatment
21	U 2 3 4	200	K	S 0 1 T 0 4	Treatment
22	U 2 3 5	200	K	S 0 1 T 0 4	Treatment
23	U 2 3 6	200	K	S 0 1 T 0 4	Treatment
24	U 2 3 7	200	K	S 0 1 T 0 4	Treatment
25	U 2 3 8	200	K	S 0 1 T 0 4	Treatment
26	U 2 3 9	200	K	S 0 1 T 0 4	Treatment

Continued from page 2.

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

I.D. NUMBER (entered from page 1)

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

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O	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	U	2	4	0	200	K	S 0 1 T 0 4	Treatment
2	U	2	4	3	200	K	S 0 1 T 0 4	Treatment
3	U	2	4	4	200	K	S 0 1 T 0 4	Treatment
4	U	2	4	6	200	K	S 0 1 T 0 4	Treatment
5	U	2	4	7	200	K	S 0 1 T 0 4	Treatment
6	U	2	4	8	200	K	S 0 1 T 0 4	Treatment
7	U	2	4	9	200	K	S 0 1 T 0 4	Treatment
8	U	3	2	8	200	K	S 0 1 T 0 4	Treatment
9	U	3	5	3	200	K	S 0 1 T 0 4	Treatment
10	U	3	5	9	200	K	S 0 1 T 0 4	Treatment
11	W	T	0	1	20,000	K	S 0 1 T 0 4	Treatment
12	W	T	0	2	10,000	K	S 0 1 T 0 4	Treatment
13	W	P	0	1	5,000	K	S 0 1 T 0 4	Treatment
14	W	P	0	2	1,000	K	S 0 1 T 0 4	Treatment
15	W	P	0	3	1,000	K	S 0 1 T 0 4	Treatment
16	W	C	0	1	1,000	K	S 0 1 T 0 4	Treatment
17	W	C	0	2	1,000	K	S 0 1 T 0 4	Treatment
18								
19								
20								
21								
22								
23								
24								
25								
26								

Continued from the front.

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

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

Routine treatments which will be conducted in the 325 HWTU will include pH adjustment, ion exchange, carbon absorption, oxidation, reduction, waste concentration by evaporation, precipitation, filtration, liquid/solids separation, catalytic destruction, grouting, encapsulation, and stabilization. These treatments will be conducted on small quantities of diverse dangerous and radioactive mixed waste generated from ongoing research and development activities. Waste to be handled in the 325 HWTU will include listed waste, waste from nonspecific sources, characteristic waste and state-only waste which are also regulated under the Atomic Energy Act of 1954 (as amended).

Routine treatment which will be conducted in the 3100 HWTU will include carbon absorption, oxidation, reduction, deactivation, vitrification, liquid-liquid extraction, encapsulation, neutralization, precipitation, recovery of acids and bases, recovery of metals or inorganics, recovery of organics, stabilization, controlled reaction with water, photocatalytic destruction and ceramic melting. The 3100 HWTU will not handle RMW.

Processes that are utilized as appropriate in the 3100 HWTU include electropolishing, electrodisolvers, other electrochemically-enhanced processes for decontaminating metals and oxidizing non-metals; ion-exchange for selective removal of contaminants from waste solutions; waste concentrators, waste dissolution, precipitation/filtration and solvent extraction systems for separation of contaminants from slurries and sludge; solids washing for separation of contaminants from sludges, waste retrieval from storage tanks, catalytic destruction methods, induced oxidation and decomposition, microwave treatment, sludge-to-oil conversion

continued on page 5 of 5

V. FACILITY DRAWING

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

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)

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.

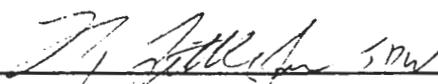
6. ZIP CODE

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)
John D. Wagoner, Manager
U.S. Department of Energy
Richland Field Office

SIGNATURE



DATE SIGNED

7/12/93

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)

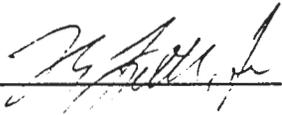
SIGNATURE

DATE SIGNED

SEE ATTACHMENT

X. OPERATOR CERTIFICATION

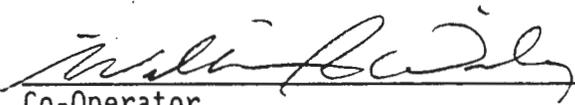
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true,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



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

7/12/93

Date



Co-Operator
William R. Wiley, Director
Pacific Northwest Laboratory

4 April, 1993

Date

9413292.0215

VI. FACILITY DRAWING (see page 4)

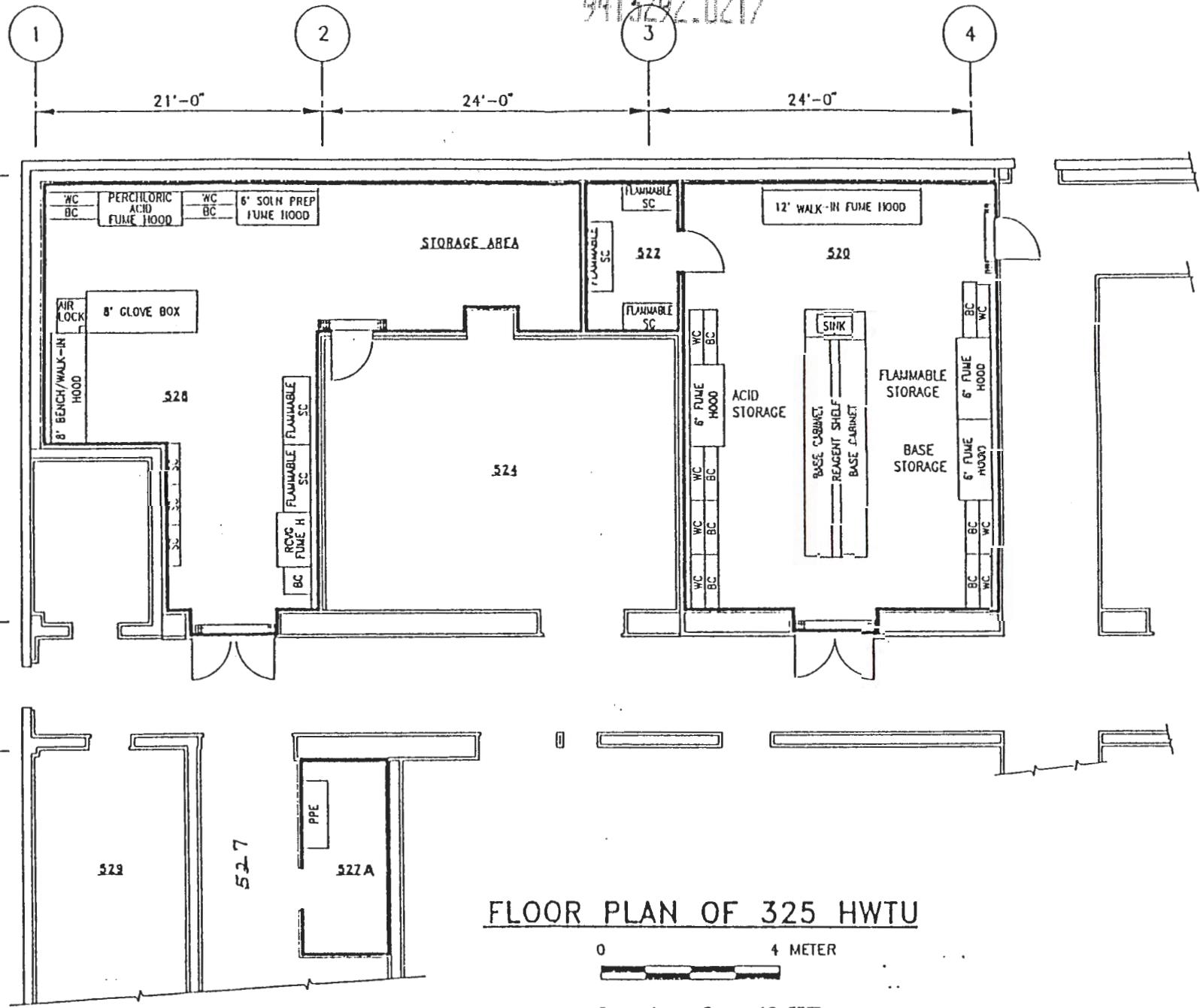
continued from page 4A of 5

technology, biological treatment processes, grouting, distillation, alkali metal treatment, plasma arc pyrolysis, in situ heating of soils and sludges for removal of organics, metal melting for volume reduction and immobilization of contaminated metals, induced oxidation of organic chemicals, thermal treatment, in can melting of soil waste, and waste vitrification.

Drawings of the facility are attached.

943292-0216

9413292.0217



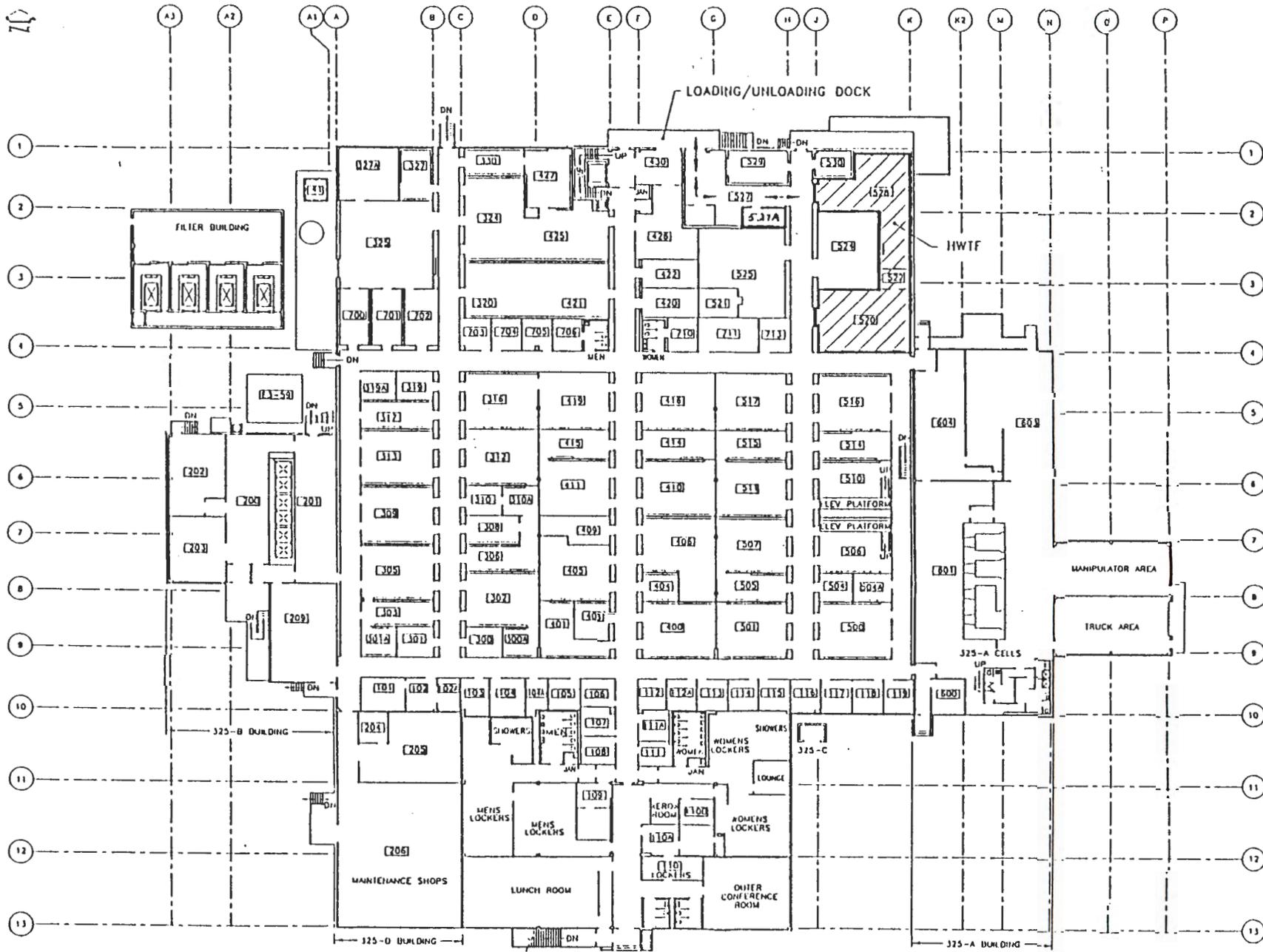
FLOOR PLAN OF 325 HWTU

0 4 METER

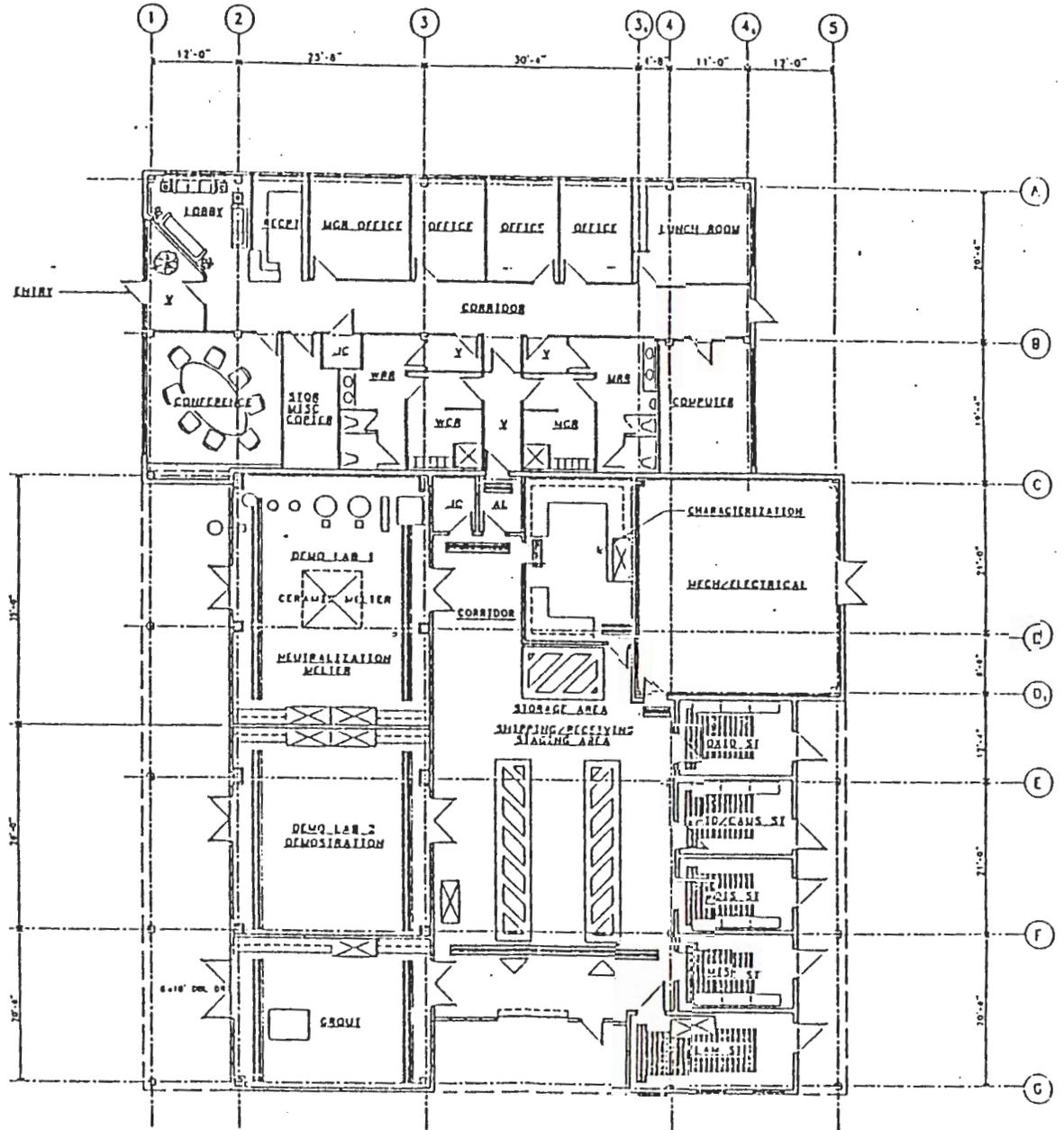


0 4 8 12 FEET





325 Building First Floor Plan



Floor Plan of 3100 HWIU