



0047603

Department of Energy
Richland Operations Office
P.O. Box 550
Richland, Washington 99352

97-EAP-589

JUL 28 1997

Mr. Moses N. Jaraysi
Program Manager
State of Washington
Department of Ecology
1315 West Fourth Avenue
Kennewick, Washington 99336-6018

Dear Mr. Jaraysi:

TRANSMITTAL OF HANFORD FACILITY RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) PERMIT, PART A, FORM 3, REVISION 4, FOR THE 325 HAZARDOUS WASTE TREATMENT UNITS (HWTUs)

Enclosed is a copy of the Hanford Facility Part A, Form 3, Revision 4 for the HWTUs. The submittal is intended to close out the Notice of Intent (NOI) process begun in 1995 for the HWTUs and gain interim status for the portions of the facility named in Revision 4. These portions will then gain final status at the end of the Hanford Facility RCRA Permit, Dangerous Waste Portion, modification cycle currently underway.

Acquisition of interim status by July 29, 1997, is necessary to assure that further extensions or other actions to authorize storage of mixed waste in the HWTUs, specifically in tank TK-1, is not needed from the State of Washington Department of Ecology (Ecology). The 45-day NOI comment period was complete July 24, 1997. Per Washington Administrative Code 173-303-281(3)(b), submittal of the revised Form 3 is appropriate at this time.

If you have questions or need further information, please contact Tony McKarns, of my staff, on 376-8981 or Harold Tilden, of Pacific Northwest National Laboratory, on 376-0499.

Sincerely,

James E. Rasmussen, Director
Environmental Assurance, Permits,
and Policy Division

EAP:ACM

Enclosure

cc w/encl:
EDMC, H6-08
R. Jim, YIN
D. Powaukee, NPT
S. M. Price, FDH
H. T. Tilden, PNNL
J. J. Wallace, Ecology
J. R. Wilkinson, CTUIR

cc w/o encl:
G. McNair, PNNL



0874

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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></tr> </table>	W	A	7	8	9	0	0	0	8	9	6
W	A	7	8	9	0	0	0	8	9	6			

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 checked="" type="checkbox"/> 1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below.)	<input type="checkbox"/> 2. NEW FACILITY (Complete item below)
--	---

<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>MO.</th><th>DAY</th><th>YR.</th></tr> <tr><td style="text-align: center;">03</td><td style="text-align: center;">22</td><td style="text-align: center;">43</td></tr> </table>	MO.	DAY	YR.	03	22	43	FOR EXISTING FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED (use the boxes to the left)	<table border="1" style="width:100%; border-collapse: collapse;"> <tr><th>MO.</th><th>DAY</th><th>YR.</th></tr> <tr><td style="height: 20px;"></td><td style="height: 20px;"></td><td style="height: 20px;"></td></tr> </table>	MO.	DAY	YR.				FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN
MO.	DAY	YR.													
03	22	43													
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 checked="" type="checkbox"/> 2. FACILITY HAS A FINAL PERMIT
---	---

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	S 0 1	10,000	L		7				
2	T 0 4	1,514	V		8				
3	S 0 2	12,574	L		9				
4	T 0 1	12,574	V		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 CAPAC

SEE ATTACHMENT

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:

1. Select one of the Dangerous Waste Numbers and enter it in column A. On the same line complete columns B, C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other Dangerous Waste Number that can be used to describe the waste. In column D(2) on that line enter "included with above" and make no other entries on that line.
3. Repeat step 2 for each other Dangerous Waste Number that can be used to describe the dangerous waste.

EXAMPLE FOR COMPLETING SECTION IV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

LINE NO.	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	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

S01, T04, S02, T01

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 and 528 of the 325 Building, and the 325 Collection/Loadout Station Tank located in the southeast corner of the basement of the 325 Building. The 325 HWTUs began waste management operations in 1991 (SAL) and 1995 (HWTU). Up to 10,000 liters of dangerous and/or mixed waste may be stored in containers in the 325 HWTUs (S01). A maximum of 1514 liters of dangerous and/or mixed waste may be treated per day in containers in the 325 HWTUs (T04).

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

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

- T11 Molten salt destructor
- T12 Pyrolysis
- T13 Wet air oxidation
- T14 Calcination
- T15 Microwave discharge
- T18 Other thermal treatment
- T21 Chemical fixation
- T22 Chemical oxidation
- T23 Chemical precipitation
- T24 Chemical reduction
- T25 Chlorination
- T26 Chlorinolysis
- T27 Cyanide destruction
- T28 Degradation
- T29 Detoxification
- T30 Ion exchange
- T31 Neutralization
- T32 Ozonation
- T33 Photolysis
- T34 Other chemical treatment
- T35 Centrifugation
- T36 Clarification
- T37 Coagulation
- T38 Decanting
- T39 Encapsulation
- T40 Filtration

T41 Flocculation
T42 Flotation
T43 Foaming
T44 Sedimentation
T45 Thickening
T46 Ultrafiltration
T47 Other separation technology
T48 Absorption-molecular sieve
T49 Activated carbon
T50 Blending
T51 Catalysis
T52 Crystallization
T53 Dialysis
T54 Distillation
T55 Electrodialysis
T56 Electrolysis
T57 Evaporation
T58 High gradient magnetic separation
T59 Leaching
T60 Liquid ion exchange
T61 Liquid-liquid extraction
T62 Reverse osmosis
T63 Solvent recovery
T64 Stripping
T65 Sand filter
T66 Other removal technology
T67 Activated sludge
T69 Aerobic tank
T70 Anaerobic lagoon or tank
T71 Composting
T74 Thickening filter
T75 Trickle filter
T77 Other biological 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 0 1	82,500*	K	S01	T04			Storage-Container/Treatment-Othe
2	through							
3	D 0 4 3							
4	F 0 0 1							
5	through							
6	F 0 0 5							
7	F 0 2 7							
8	F 0 3 9							
9	K 0 1 1							
10	K 0 1 3							
11	K 0 4 8							
12	through							
13	K 0 5 2							
14	P 0 0 1							
15	through							
16	P 0 1 8							
17	P 0 2 0							
18	through							
19	P 0 2 4							
20	P 0 2 6							
21	through							
22	P 0 3 1							
23	P 0 3 3							
24	P 0 3 4							
25								
26								* 60,000 (S01); 22,500 (T04)

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 0 3 6				Storage-Container/Treatment-Othe (continued)
2	through				
3	P 0 5 1				
4	P 0 5 4				
5	P 0 5 6				
6	through				
7	P 0 6 0				
8	P 0 6 2				
9	through				
10	P 0 7 8				
11	P 0 8 1				
12	P 0 8 2				
13	P 0 8 4				
14	P 0 8 5				
15	P 0 8 7				
16	through				
17	P 0 8 9				
18	P 0 9 2				
19	through				
20	P 0 9 9				
21	P 1 0 1				
22	through				
23	P 1 0 6				
24	P 1 0 8				
25	through				
26	P 1 1 6				

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 8				Storage-Container/Treatment-Other
2	through				(continued)
3	P 1 2 3				
4	P 1 2 7				
5	P 1 2 8				
6	P 1 8 5				
7	P 1 8 8				
8	through				
9	P 1 9 2				
10	P 1 9 4				
11	P 1 9 6				
12	through				
13	P 1 9 9				
14	P 2 0 1				
15	through				
16	P 2 0 5				
17	U 0 0 1				
18	through				
19	U 0 1 2				
20	U 0 1 4				
21	through				
22	U 0 3 9				
23	U 0 4 1				
24	through				
25	U 0 5 3				
26					

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 5 5							Storage-Container/Treatment-Other (continued)
2	through							
3	U 0 6 4							
4	U 0 6 6							
5	through							
6	U 0 9 9							
7	U 1 0 1							
8	through							
9	U 1 0 3							
10	U 1 0 5							
11	through							
12	U 1 3 8							
13	U 1 4 0							
14	through							
15	U 1 7 4							
16	U 1 7 6							
17	through							
18	U 1 9 4							
19	U 1 9 6							
20	U 1 9 7							
21	U 2 0 0							
22	through							
23	U 2 1 1							
24	U 2 1 3							
25	through							
26	U 2 2 3							

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 2 2 5				Storage-Container/Treatment-Othe (continued)
2	through				
3	U 2 2 8				
4	U 2 3 4				
5	through				
6	U 2 4 0				
7	U 2 4 3				
8	U 2 4 4				
9	U 2 4 6				
10	through				
11	U 2 4 9				
12	U 2 7 1				
13	U 2 7 7				
14	through				
15	U 2 8 0				
16	U 3 2 8				
17	U 3 5 3				
18	U 3 5 9				
19	U 3 6 4				
20	through				
21	U 3 6 7				
22	U 3 7 2				
23	U 3 7 3				
24	U 3 7 5				
25	through				
26	U 3 7 9				

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 3 8 1							Storage-Container/Treatment-Other (continued)
2	through							
3	U 3 8 7							
4	U 3 8 9							
5	through							
6	U 3 9 6							
7	U 4 0 0							
8	through							
9	U 4 0 4							
10	U 4 0 7							
11	U 4 0 9							
12	through							
13	U 4 1 1							
14	W T 0 1							
15	W T 0 2							
16	W P 0 1							
17	through							
18	W P 0 3							
19	W S C 2							Included With Above
20	D 0 0 1	80,000	K	S02	T01			Storage-Tank/Treatment-Tank
21	through							
22	D 0 1 1							
23	D 0 1 8							
24	D 0 1 9							
25	D 0 2 2							
26								

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

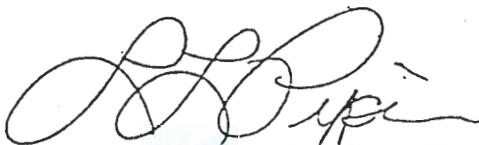
I.D. NUMBER (entered from page 1)
 W A 7 8 9 0 0 0 8 9 6 7

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 8				Storage-Tank/Treatment-Tank
2	through				(continued)
3	D 0 3 0				
4	D 0 3 3				
5	through				
6	D 0 3 6				
7	D 0 3 8				
8	through				
9	D 0 4 1				
10	D 0 4 3				
11	W T 0 1				
12	W T 0 1				
13	W P 0 1				
14	W P 0 2				
15	W S C 2				
16	F 0 0 1				
17	through				
18	F 0 0 5				
19	F 0 3 9				Included With Above
20					
21					
22					
23					
24					
25					
26					

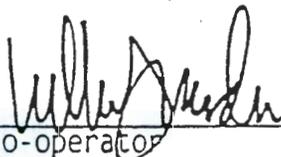
X. OPERATOR CERTIFICATION

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

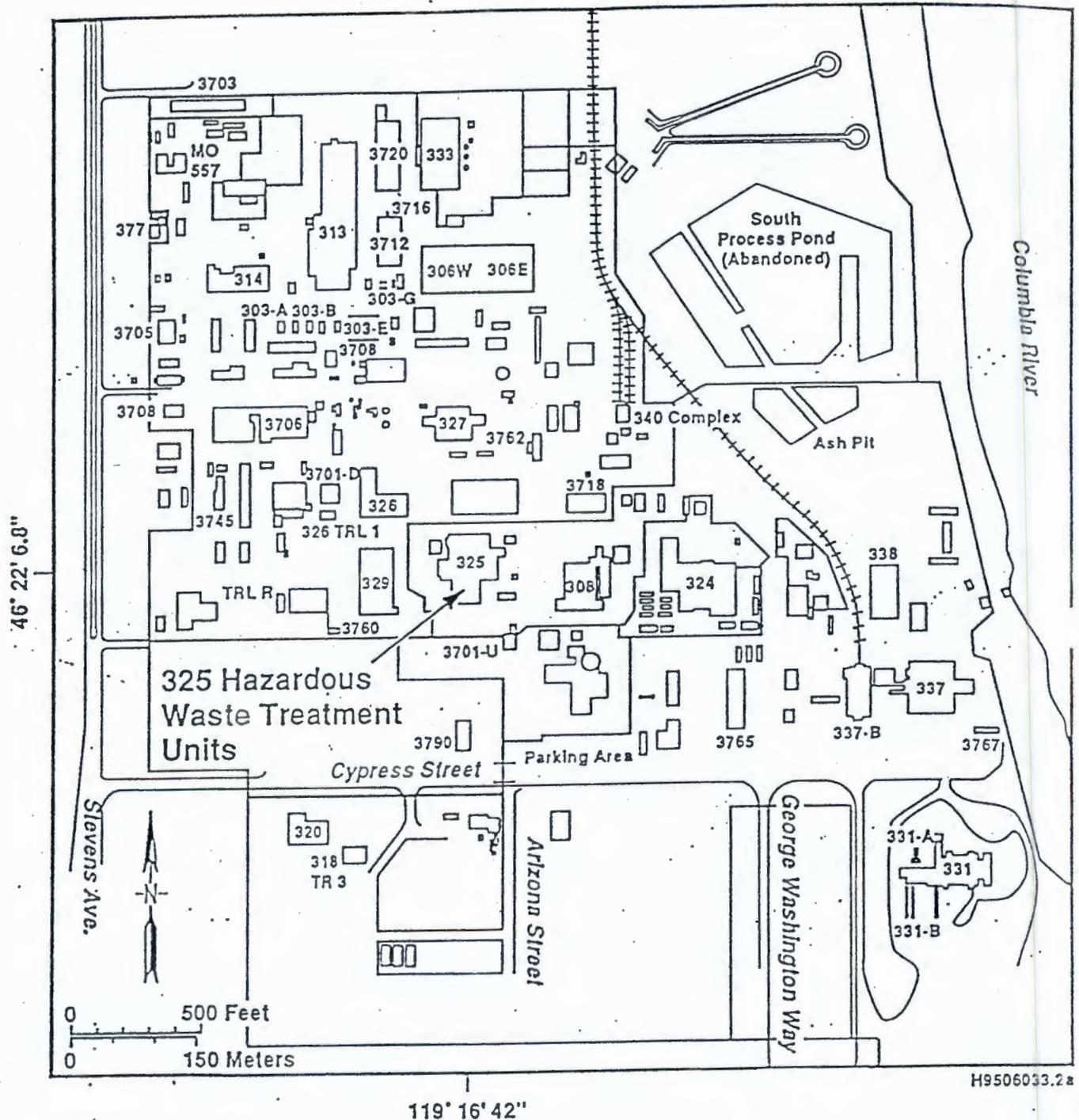
6/30/97
Date



Co-operator
William J. Madia, Director
Pacific Northwest National Laboratory

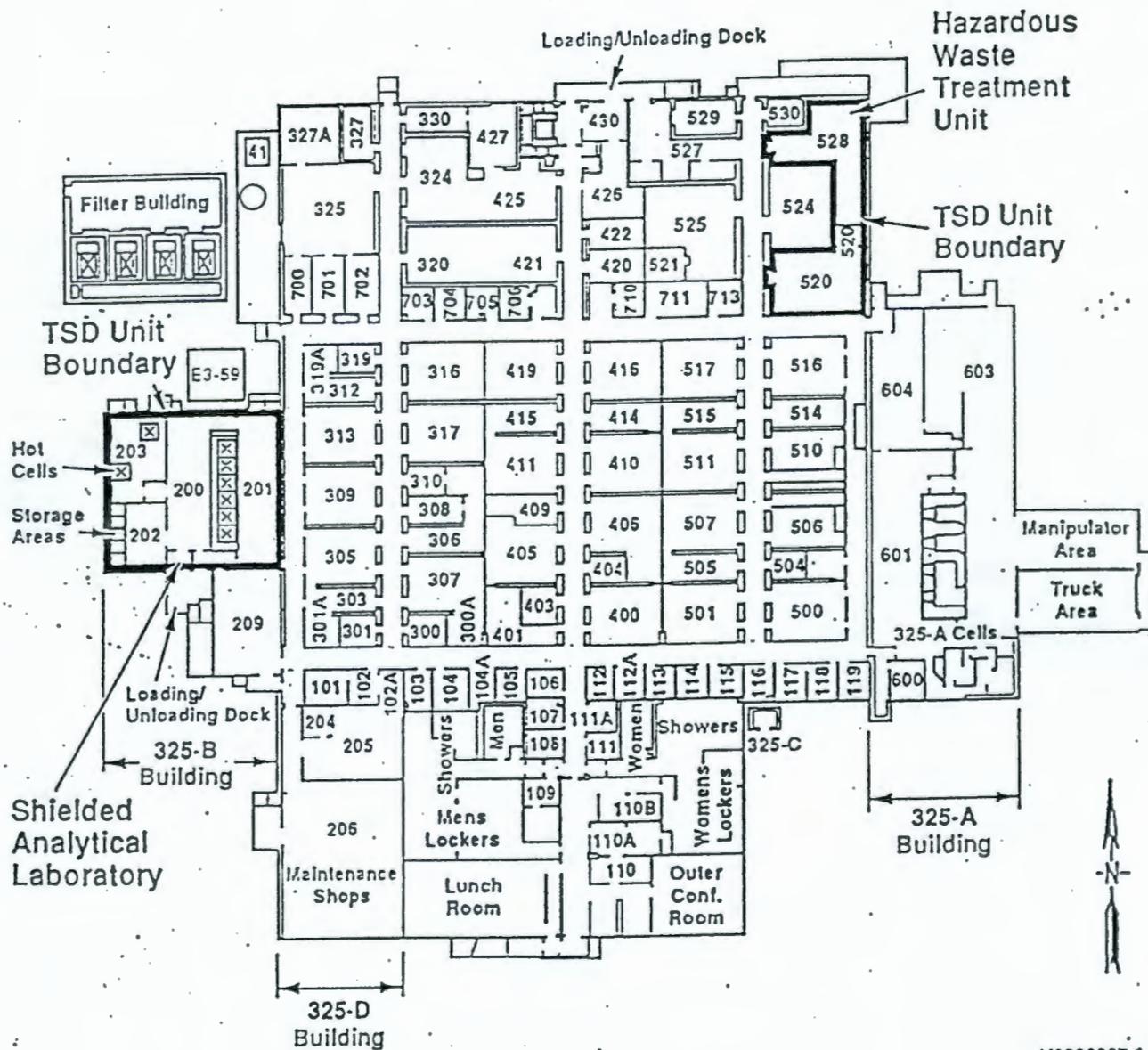
26 June 97
Date

WA7890008967



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

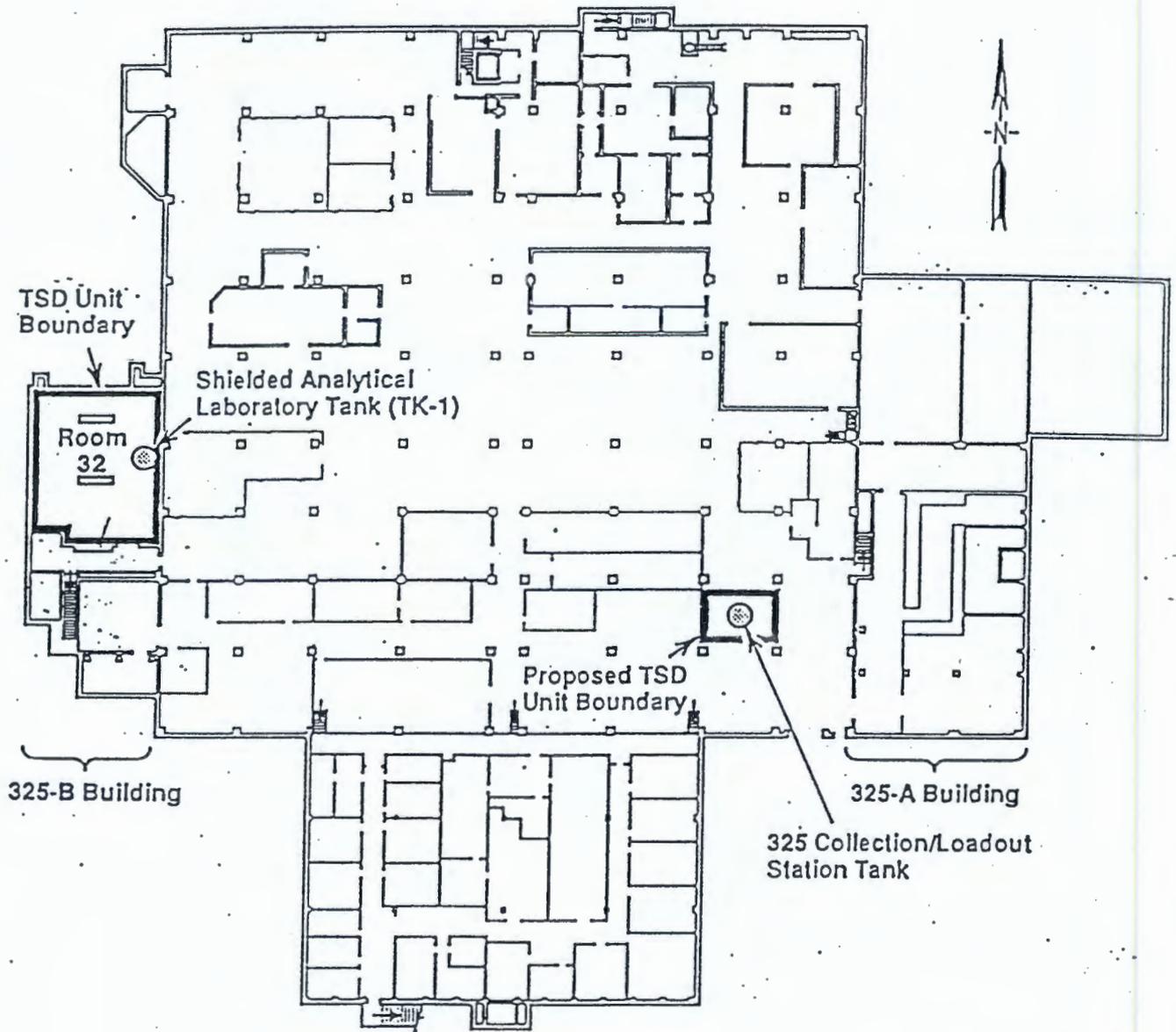
WA7890008967



H9508027.1

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

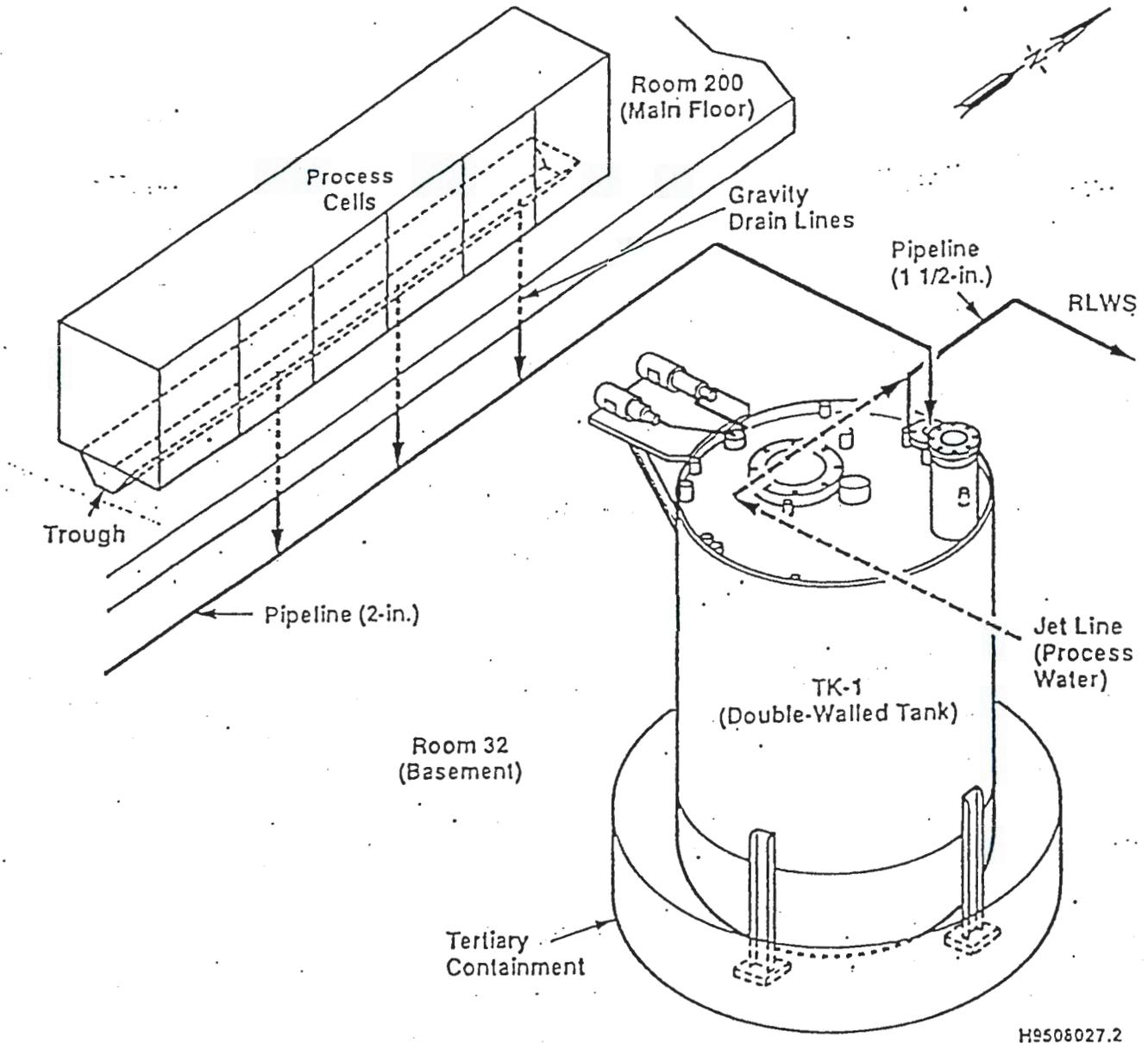
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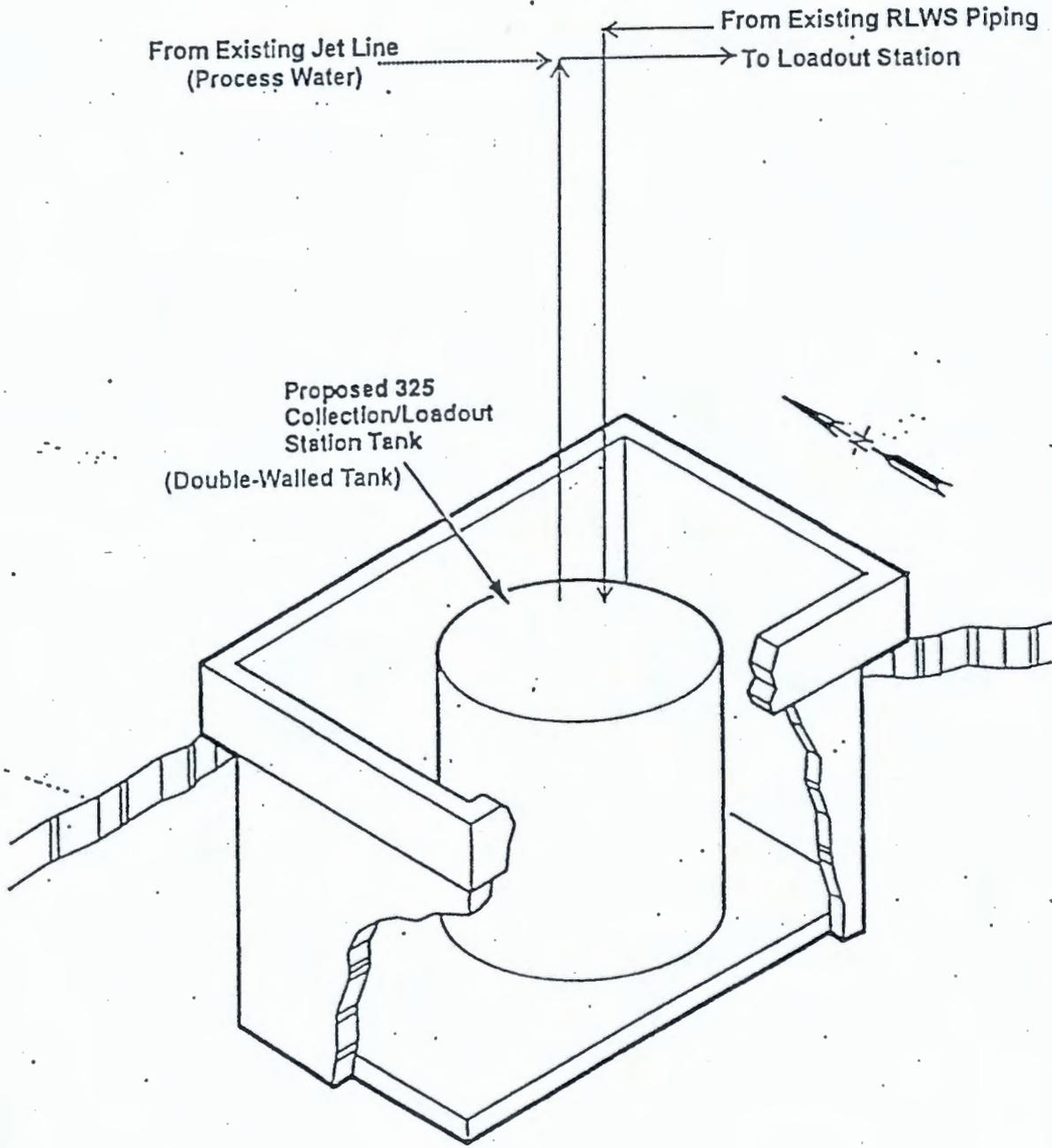
Location of Shielded Analytical Laboratory Tank in Room 32 and Proposed Location of 325 Collection/Loadout Station Tank (basement) of the 325 Building.

WA7890008967



Shielded Analytical Laboratory Tank and Ancillary Piping.

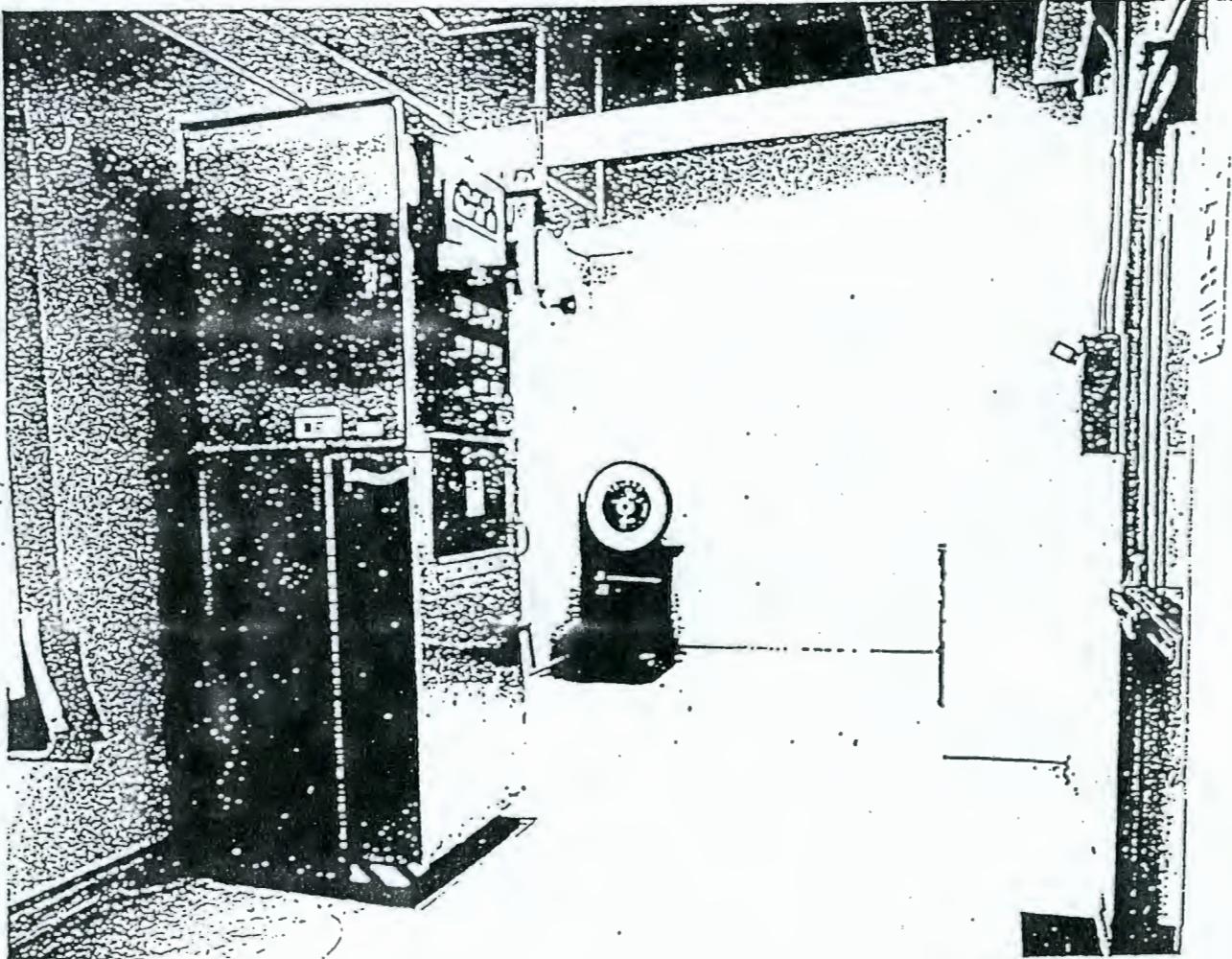
WA7890008967



Proposed 325 Collection/Loadout Station Tank.

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS

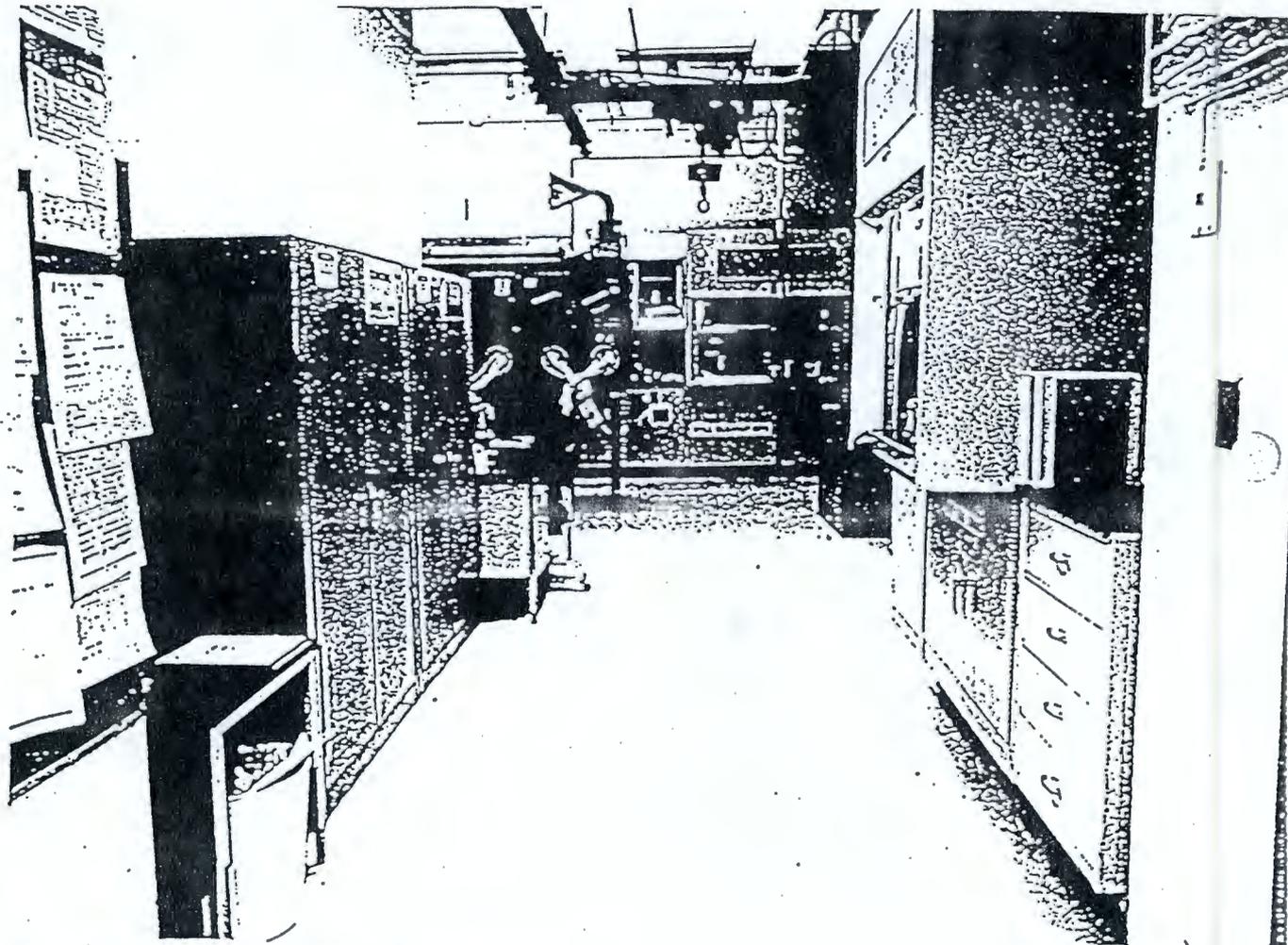


325 Hazardous Waste Treatment Unit
Room 528

46°22'6.8"
119°16'42"

96010398-22
(PHOTO TAKEN 199

325 HAZARDOUS WASTE TREATMENT UNITS



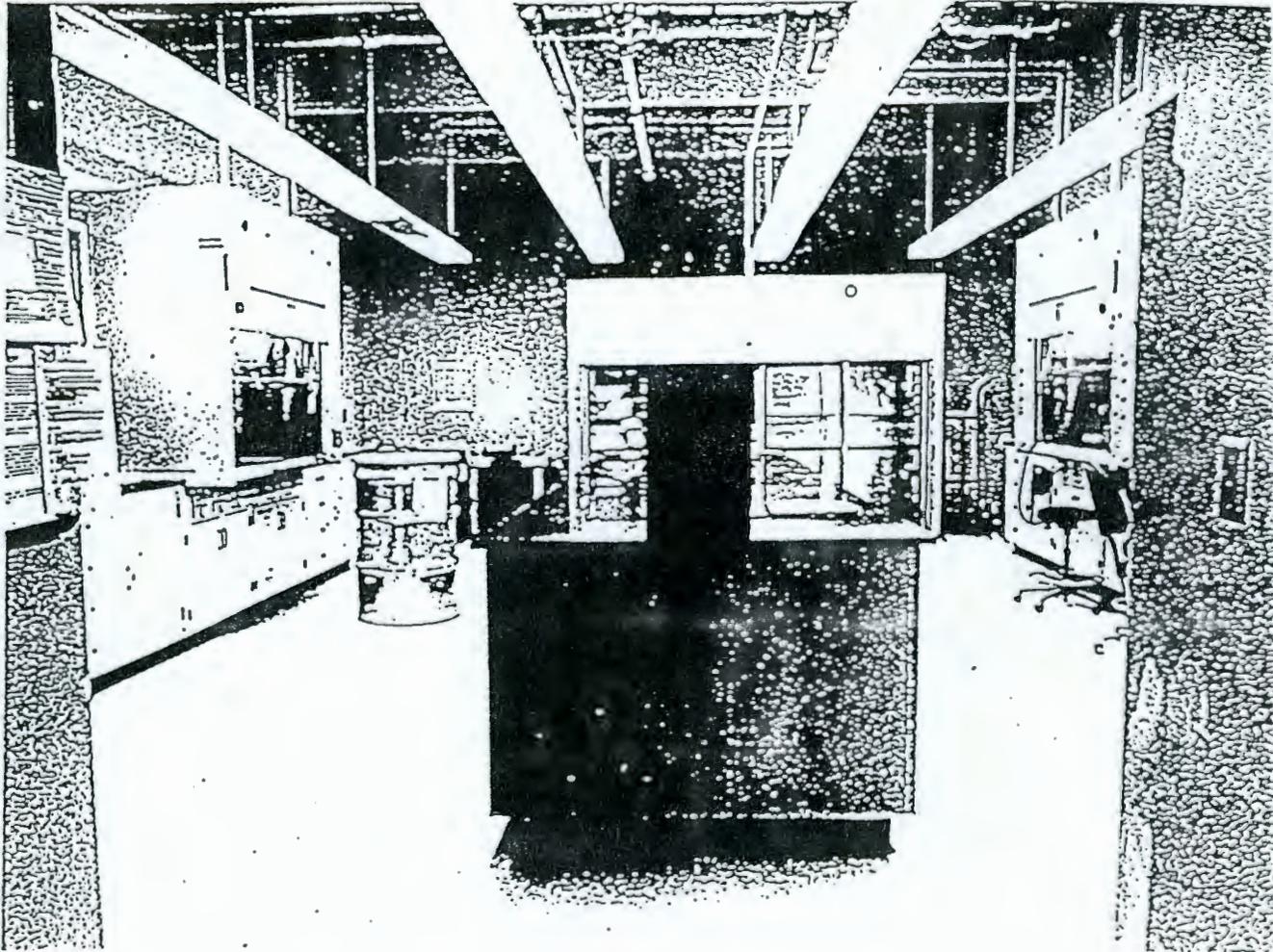
325 Hazardous Waste Treatment Unit
Room 528

46°22'6.8"
119°16'42"

96010398-20CN
(PHOTO TAKEN 1996)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



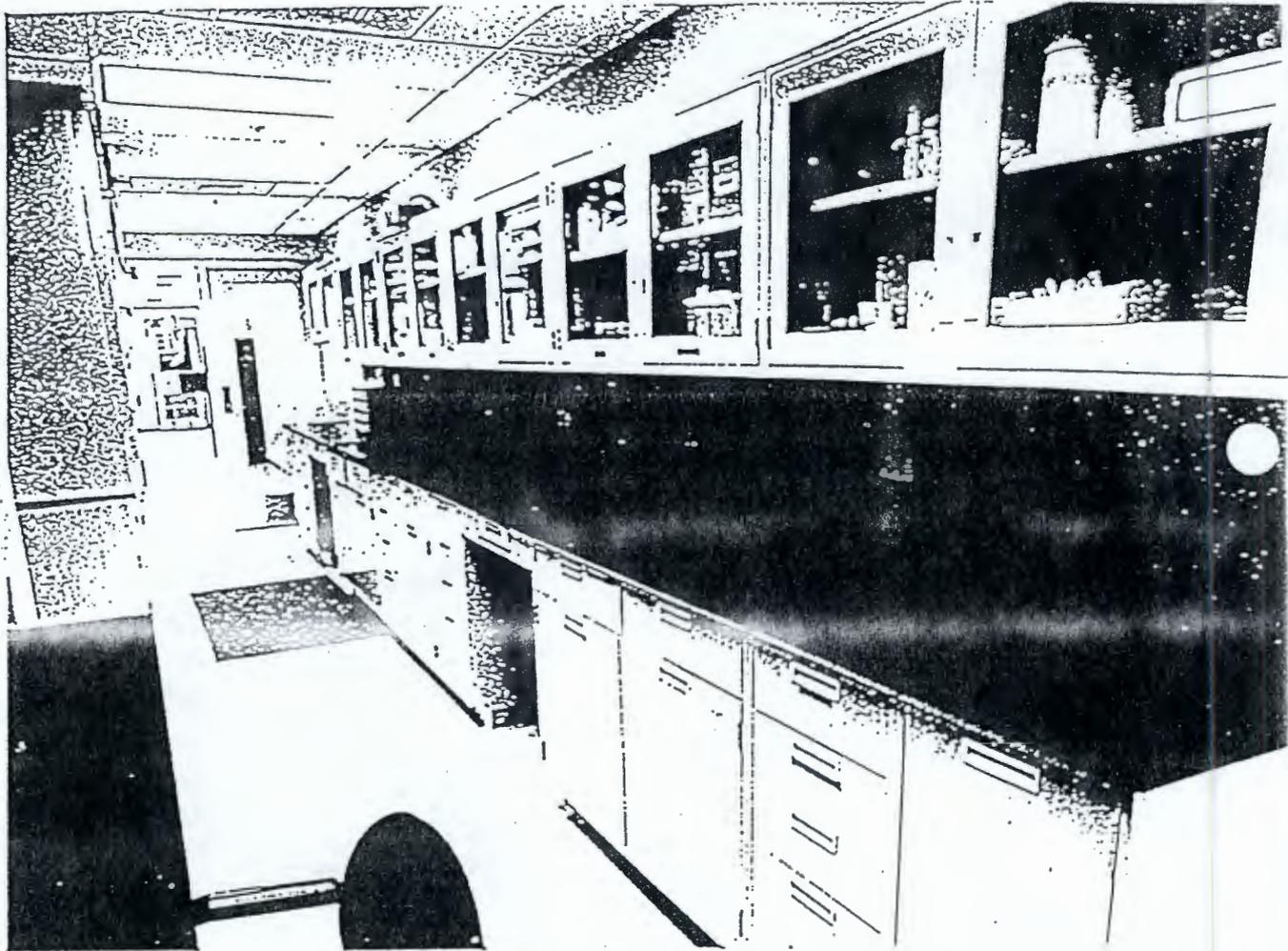
325 Hazardous Waste Treatment Unit
Room 520

46°22'6.8"
119°16'42"

96010392-17
(PHOTO TAKEN 199

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



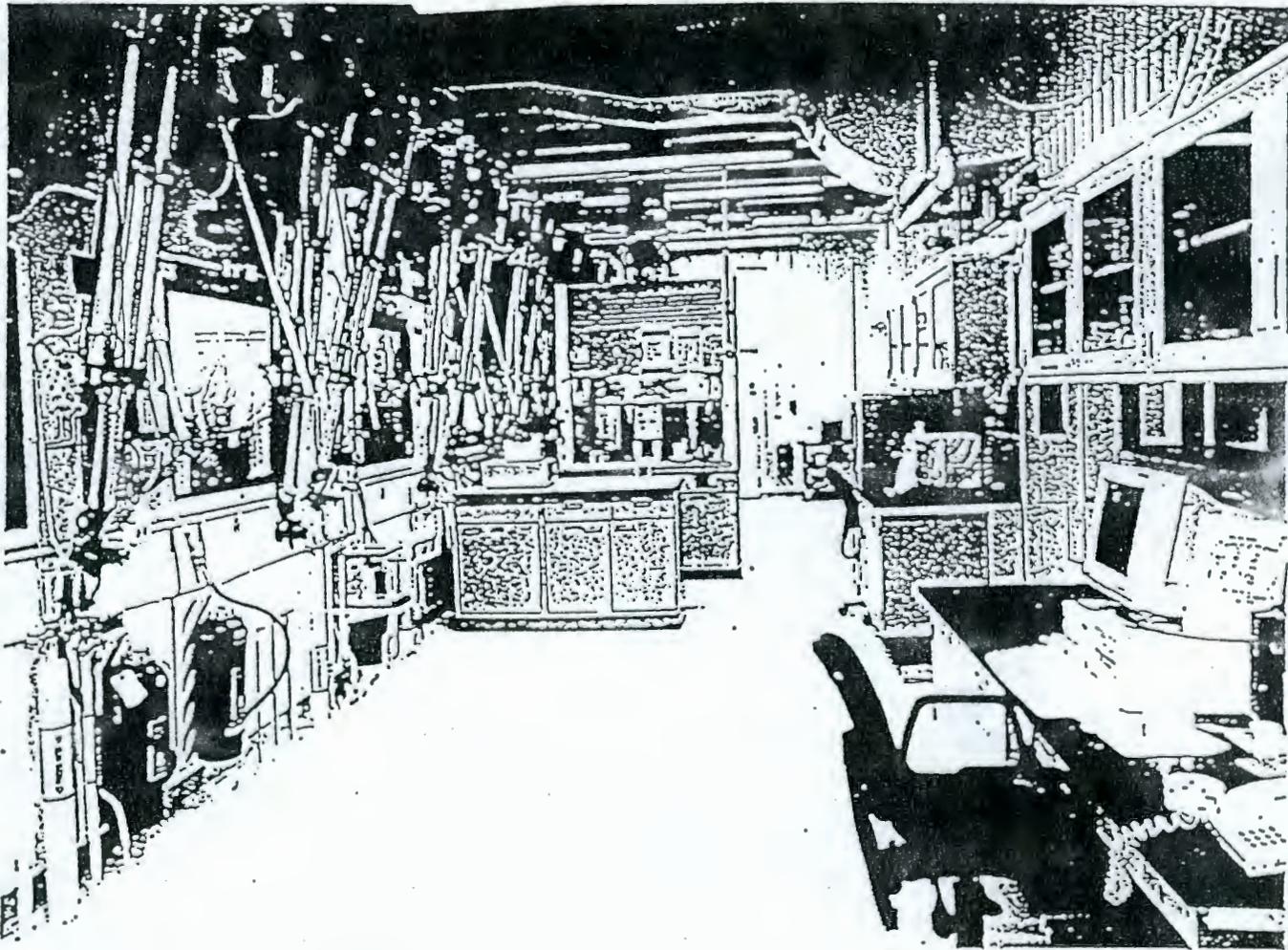
Shielded Analytical Laboratory
Room 201

46°22'6.8"
119°16'42"

9600398-14
(PHOTO TAKEN 1971)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



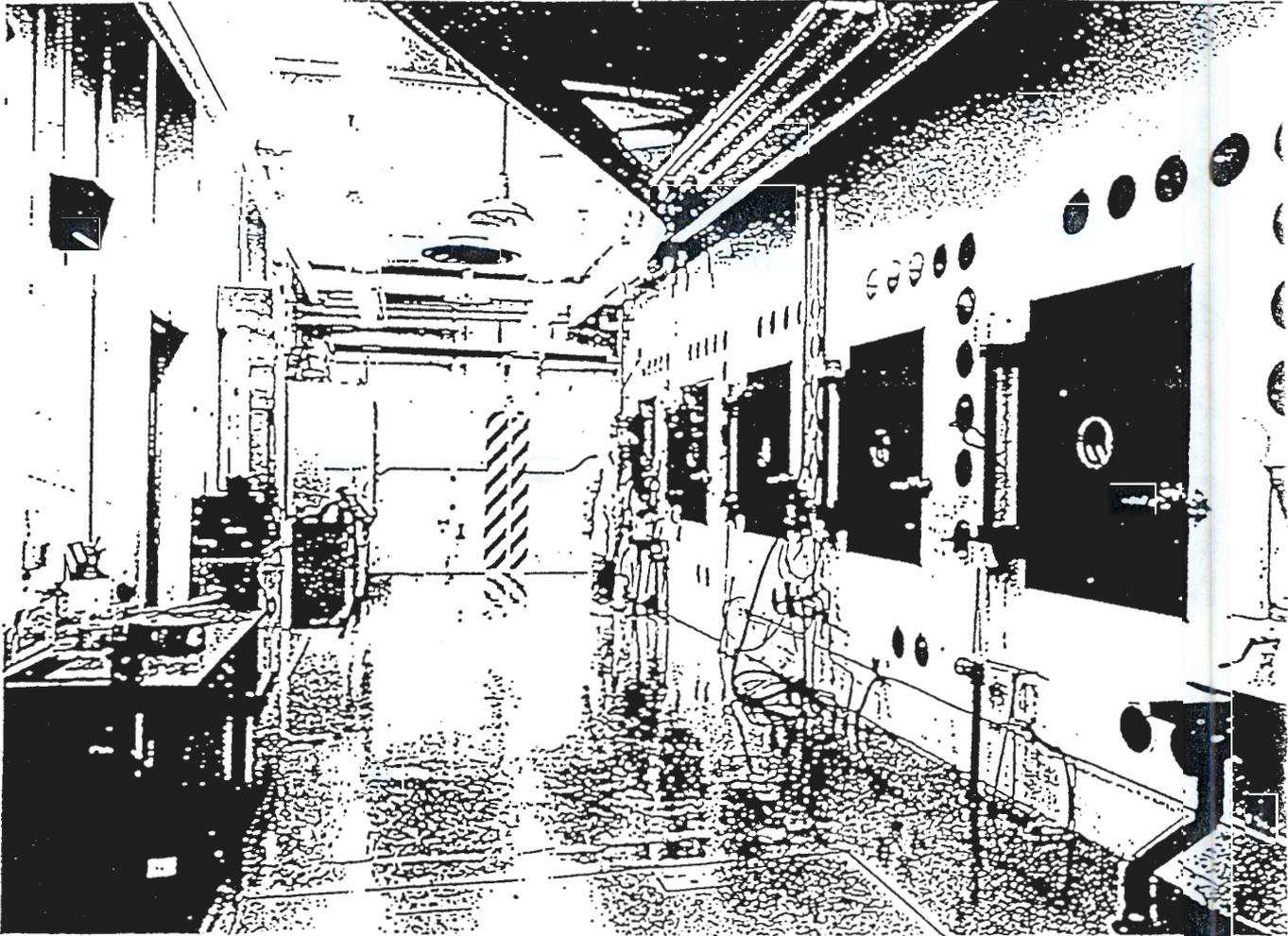
Shielded Analytical Laboratory
Room 201

46°22'6.8"
119°16'42"

96010398-7CH
(PHOTO TAKEN 1996)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



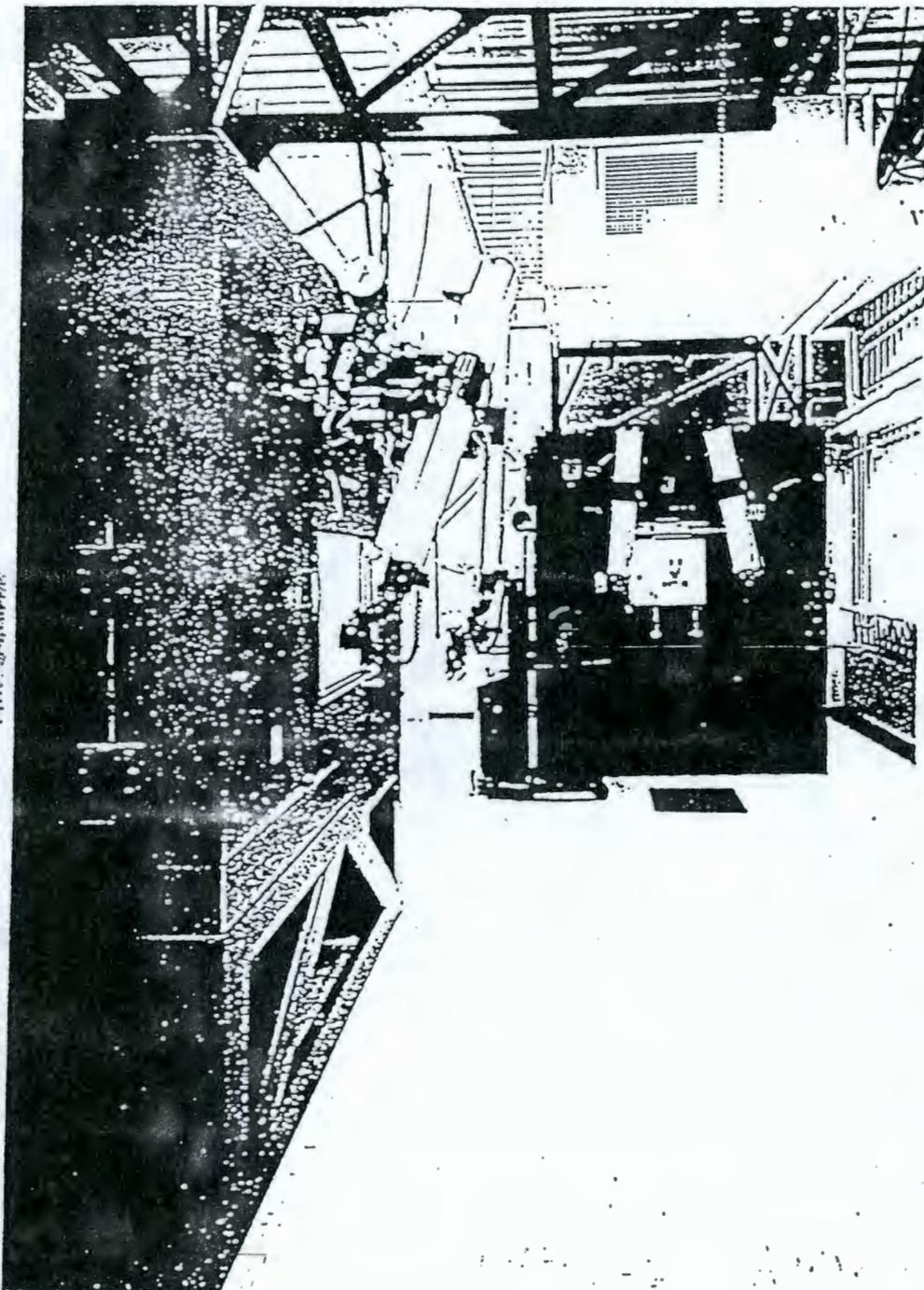
Shielded Analytical Laboratory
Room 200

46°22'6.8"
119°16'42"

8002309-10
(PHOTO TAKEN 1980)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



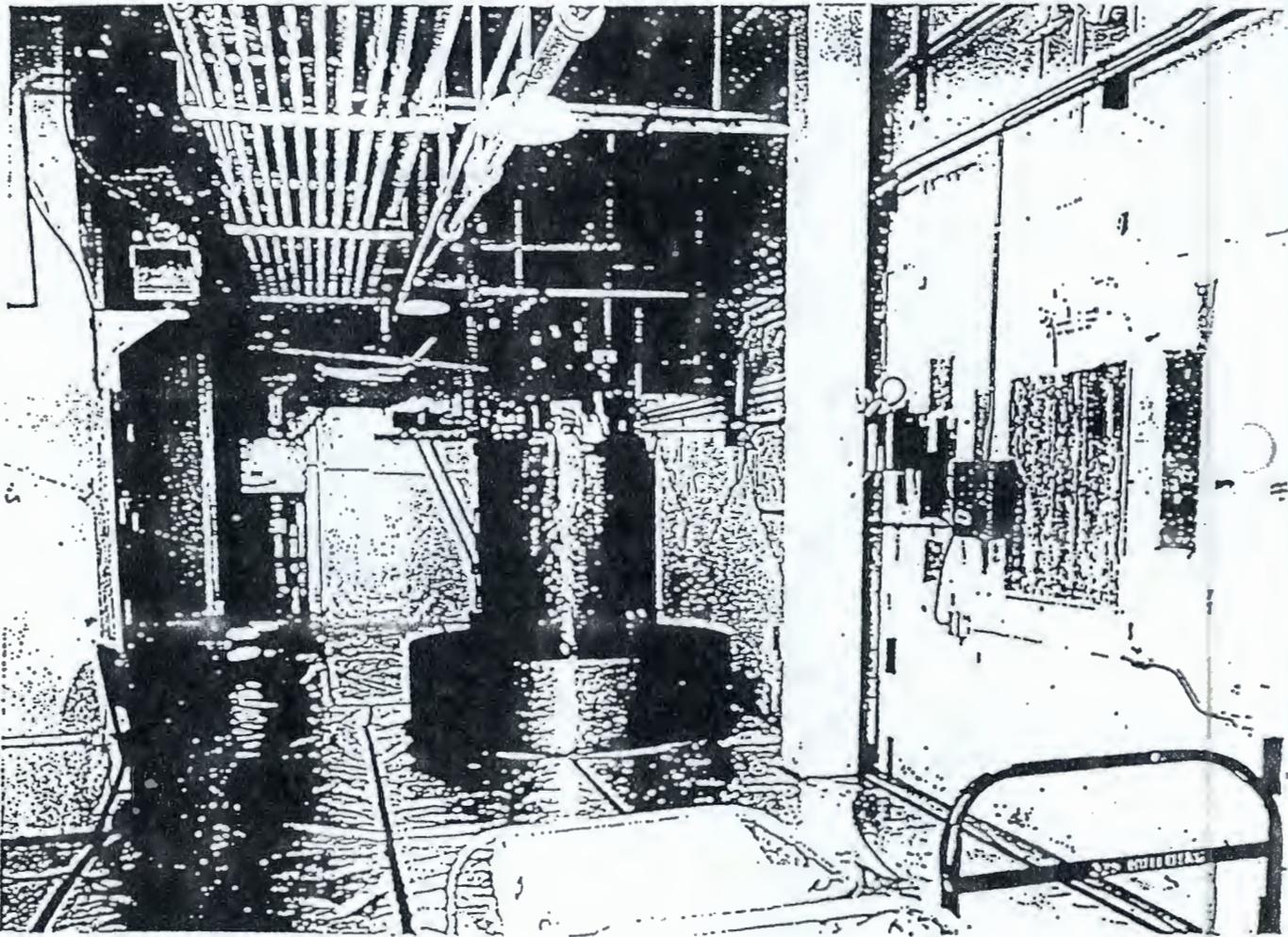
Shielded Analytical Laboratory
Room 203

46°22'5.2"
119°16'42"

7908247-1CH
(PHOTO TAKEN 1979)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



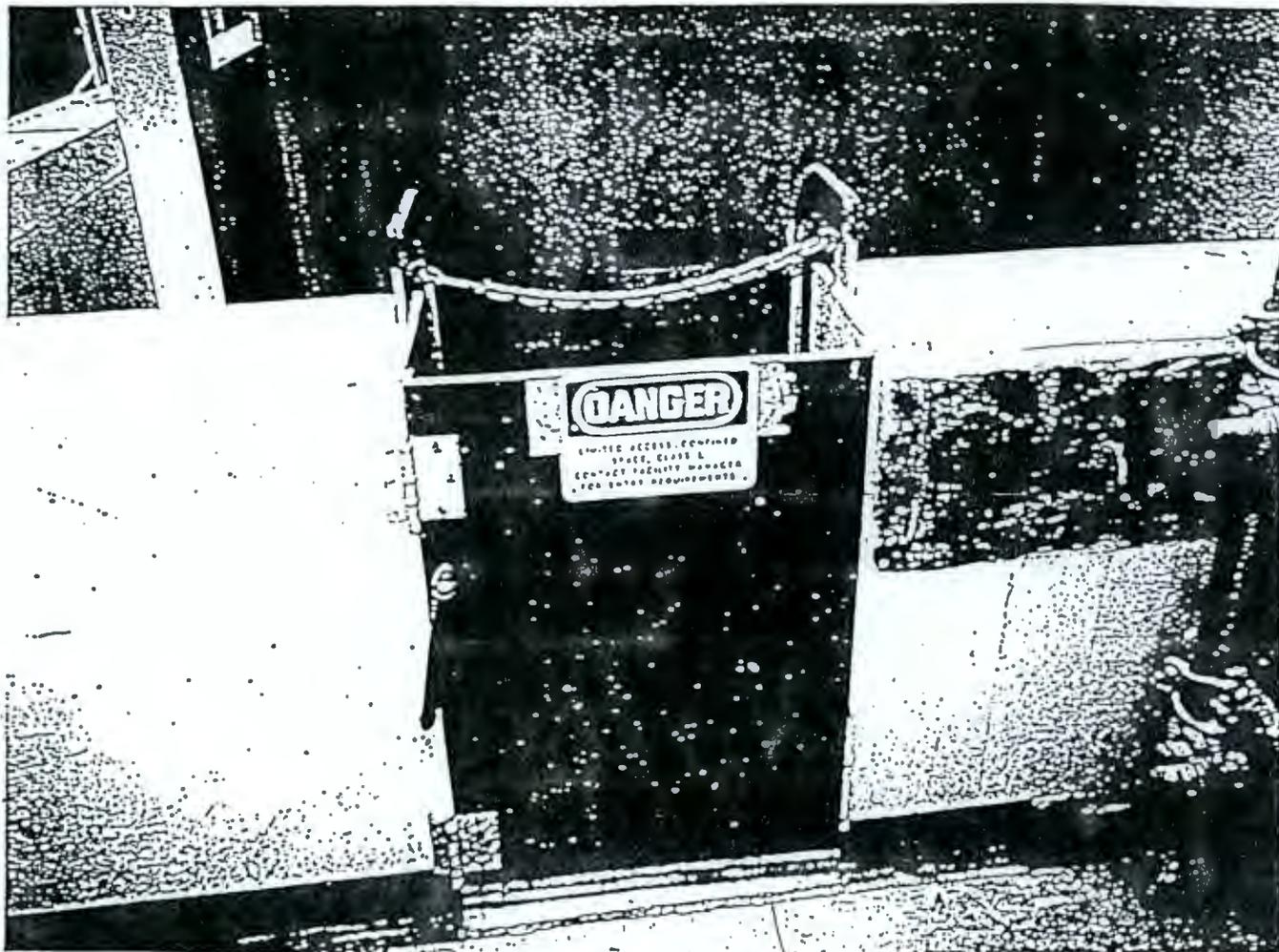
Shielded Analytical Laboratory
SAL Tank

46°22'6.8"
119°16'42"

96010392-3CN
(PHOTO TAKEN 1979)

WA7890008967

325 HAZARDOUS WASTE TREATMENT UNITS



Proposed 325 Collection/Loadout Station Tank

46°22'6.8"
119°16'42"

96010393-204
(PHOTO TAKEN 1996)

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