



START

Department of Energy

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

0018672

9200472

91-RPB-038

DEC 30 1991

Mr. Timothy L. Nord
Hanford Project Manager
State of Washington
Department of Ecology
Mail Stop PV-11
Olympia, Washington 98504-8711



Dear Mr. Nord:

REVISION TO THE HANFORD SITE DANGEROUS WASTE PART A PERMIT APPLICATION
(WA7890008967) (TSD: TS-2-1)

Enclosed is the Dangerous Waste Part A Permit Application Form 3, Revision 1, for the 222-S Laboratory Complex (222-S Complex). The 222-S Complex provides quality analytical chemistry services in support of Hanford Site processing units with emphasis on waste management, chemical processing, and environmental monitoring programs. The 222-S Complex contains two treatment and/or storage units. These two units are the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area.

The Form 3 for the 222-S Complex has been revised to add the storage capacity of three stainless steel tanks at the 219-S Waste Handling Facility, increase the treatment capacity of Tank 102 and decrease the storage capacity of the 222-S Dangerous and Mixed Waste Storage Area. These revisions are based on information gathered for the preparation of the 222-S Complex Dangerous Waste Part B Permit Application, Revision 0.

Also the Form 3 has been revised to add 11 dangerous waste codes to the 219-S Waste Handling Facility and 38 dangerous waste codes to the 222-S Dangerous and Mixed Waste Storage Area. The addition of these dangerous waste codes is based on information provided by an analysis of the waste that is sent to the two waste management units within the 222-S Complex. These dangerous waste codes were added to enhance compliance with the Washington Administrative Code 173-303-805.



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Mr. T. L. Nord
91-RPB-038

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If you have any questions regarding this permit application, please contact Mr. C. E. Clark of the DOE Richland Field Office on (509) 376-9333, or Ms. S. M. Price of the Westinghouse Hanford Company on (509) 376-1653.

Sincerely,

Robert S. Holt
for
R. D. Izatt, Program Manager
Office of Environmental Assurance,
Permits and Policy
DOE Richland Field Office

EAP:CEC

R. E. Lerch
for
R. E. Lerch, Manager
Environmental Division
Westinghouse Hanford Company

cc: P. J. Day, EPA
D. L. Duncan, EPA
R. E. Lerch, WHC

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Author

Addressee

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J. F. Williams Jr., 6-4786

T. L. Nord, Ecology

Incoming: 9200472
Ref. #9158677D

Subject: **REVISION TO THE HANFORD SITE DANGEROUS WASTE PART A PERMIT APPLICATION
(WA7890008967) (TSD: TS-2-1)**

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**222-S LABORATORY COMPLEX PART A PERMIT APPLICATION REVISION EXPLANATION
(TS-2-1)**

This Part A Permit application consists of a Form 1 (not revised) and a Form 3, Revision 1, of the 222-S Laboratory Complex, formally the 222-S Laboratories Treatment Tanks and Storage Building, in general terms.

The 222-S Laboratory Complex (222-S Complex) consists of the following two waste management units, the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area. The 219-S Waste Handling Facility is located northeast of the 222-S Analytical Laboratory Building and contains three stainless steel tanks: 101 (4,000 gallon), 102 (4,000 gallon), and 103 (1,500 gallon) located in a belowground concrete vault. The 222-S Dangerous and Mixed Waste Storage Area is located on the north side of the 222-S Analytical Laboratory Building and consists of two metal storage structures resting on a concrete pad that stores 55-gallon U.S. Department of Transportation-specified drums of mixed waste and nonradioactive dangerous waste.

This Part A permit application, Form 3, has been revised to add the storage capacity of the 219-S Waste Handling Facility three stainless steel tanks, increase the treatment capacity of tank 102, and to decrease the storage capacity of the 222-S Dangerous and Mixed Waste Storage Area. These revisions are based on comments generated during the technical and regulatory review of the 222-S Complex Dangerous Waste Permit Application, Revision 0, by the Westinghouse Hanford Company and the U.S. Department of Energy Field Office, Richland.

The Part A permit application also has been revised to add 11 dangerous waste codes to the 219-S Waste Handling Facility and 38 dangerous waste codes to the 222-S Dangerous and Mixed Waste Storage Area. The addition of these dangerous waste codes is based on information provided by an analysis of the waste that is sent to the two waste management units. These dangerous waste codes were added in compliance with the Washington Administrative Code (WAC) 173-303-805. This regulation requires a revised Part A permit application to include any dangerous waste that may be treated or stored at a waste management unit with interim status that has not been previously identified.

The following is an overview of the 222-S Complex Part A Permit Application, Form 3, contents.

Section I The EPA/State Identification Number - No change.

Section II First or Revised Application - No change.

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- Section III Processes - Codes and Design Capacities - This section describes the process codes and process design capacities of the 222-S Complex. In Block A., Block B.1., and Block B.2., the Process Code "S02," Process Design Capacity "9,500" gallons, and Unit of Measure "G" for gallons have been added. In Block B.2., the Process Design Capacity for "T01" has been increased from "104" gallons per day to "206" gallons per day and "S01" has been decreased from "3,300" gallons to "540" gallons. Section III.C., "Processes," has been revised to include additional details of the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area.
- Section IV Description of Dangerous Waste - This section describes the waste that is being treated at the 222-S Complex. In Block A, 38 new dangerous waste codes have been added in accordance with WAC 173-303-805. Table 1 of this explanation provides the dangerous waste number and description of the chemical constituent. In Block B, the estimated annual quantity of waste has been increased from "317,000" to "626,000" pounds for process codes S02 and T01. Block C has no change. In Block D.1., process code "S01" has been added for the three storage tanks. In Block D.2., the process description has been changed from "Chemical Treatment - Storage Container," to "Storage - Tank, Treatment - Tank/Storage Container." Section IV.E., "Description of Dangerous Waste," has been revised to include the additional dangerous waste codes and the increased estimated annual quantity of waste.
- Section V Facility Drawing - The site plans have been modified to include the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area. A new drawing has been added to show the 219-S Waste Handling Facility three storage tank locations.
- Section VI Photographs - New photographs have been added of the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area.
- Section VII Facility Geographic Location - No change.
- Section VIII Facility Owner - No change.
- Section IX Owner Certification - The certification is signed by the Manager, U.S. Department of Energy DOE Richland Field Office (RL).

The Manager of RL was changed from Michael J. Lawrence to John D. Wagoner.

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Section X

Operator Certification - An attachment is provided to the Form 3, to be signed by the Manager, RL, as the owner/operator and the President of Westinghouse Hanford Company (WHC) as co-operator. These signatures certify management's belief that the submitted information is true, accurate, and complete.

The Manager of RL was changed from Michael J. Lawrence to John D. Wagoner.

The President of WHC was changed from William M. Jacobi to Thomas M. Anderson.

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TABLE 1

KEY TO DANGEROUS WASTE IDENTIFICATION NUMBERS

PART A, SECTION IV

<u>Dangerous Waste Number</u>	<u>Description of Chemical Constituent</u>
(S02, T01) - Storage - Tank/Treatment - Tank	
D002	Dangerous waste that exhibits the characteristic of corrosivity (e.g., nitric acid)
D004*	Arsenic
D005*	Barium
D006*	Cadmium
D007*	Chromium
D008*	Lead
D009*	Mercury
D010*	Selenium
D011*	Silver
F003*	Spent nonhalogenated solvent (e.g., acetone)
F005*	Spent nonhalogenated solvent (e.g., methyl ethyl ketone)
WT01*	Toxic - state-only waste - Extremely Hazardous Waste (EHW) (e.g., Lead)
(S01) - Storage - Container	
D001	Dangerous waste that exhibits the characteristic of ignitability (e.g., acetone)
D002*	Dangerous waste that exhibits the characteristic of corrosivity (e.g., nitric acid)
D003	Dangerous waste that exhibits the characteristic of reactivity (e.g., cyanide waste)

* - New Dangerous Waste Code

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TABLE 1 (cont'd)
KEY TO DANGEROUS WASTE IDENTIFICATION NUMBERS
PART A, SECTION IV

<u>Dangerous Waste Number</u>	<u>Description of Chemical Constituent</u>
(S01) - Storage - Container (cont'd)	
D004*	Arsenic
D005*	Barium
D006*	Cadmium
D007*	Chromium
D008*	Lead
D009*	Mercury
D010*	Selenium
D011*	Silver
D012*	Endrin
D013*	Lindane
D014*	Methoxychlor
D015*	Toxaphene
D016*	2,4-D
D017*	2,4,5-TP (Silvex)
D018*	Benzene
D019*	Carbon tetrachloride
D020*	Chlordane
D021*	Chlorobenzene
D022*	Chloroform
D023*	o-Cresol

* - New Dangerous Waste Code

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TABLE 1 (cont)
 KEY TO DANGEROUS WASTE IDENTIFICATION NUMBERS
 PART A, SECTION IV

<u>Dangerous Waste Number</u>	<u>Description of Chemical Constituent</u>
(S01) - Storage - Container (cont'd)	
D024*	m-Cresol
D025*	p-Cresol
D026*	Cresol
D027*	1,4-Dichlorobenzene
D028*	1,2-Dichloroethane
D029*	1,1-Dichloroethylene
D030*	2,4-Dinitrotoluene
D033*	Hexachlorobutadiene
D034*	Hexachloroethane
D035*	Methyl ethyl ketone
D036*	Nitrobenzene
D038*	Pyridine
F001	Spent halogenated solvents (e.g., carbon tetrachloride)
F002*	Spent nonhalogenated solvents (e.g., tetrachloroethylene)
F003*	Spent nonhalogenated solvents (e.g., acetone)
F005*	Spent nonhalogenated solvents (e.g., methyl ethyl ketone)

* - New Dangerous Waste Code

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TABLE 1 (cont)
KEY TO DANGEROUS WASTE IDENTIFICATION NUMBERS
PART A, SECTION IV

<u>Dangerous Waste Number</u>	<u>Description of Chemical Constituent</u>
(S01) - Storage - Container (cont'd)	
F027*	Discarded unused tri-, tetra-, or pentachlorophenol or chlorophenals (e.g., trichlorophenol)
WC01	Carcinogenic - state-only waste - EHW (e.g., mercury)
WC02	Carcinogenic - state-only waste - Dangerous Waste (DW) (e.g., mercury)
WP01	Persistent, halogenated hydrocarbons - state-only waste - EHW (e.g., carbon tetrachloride)
WT01	Toxic - state-only waste - EHW (e.g., lead)
WT02	Toxic - state-only waste - EHW (e.g., mercury)

* - New Dangerous Waste Code

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Please print or type in the unshaded areas only
(All shaded areas are spaced for cello type, i.e., 12 characters/inch)

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/STATE I.D. NUMBER WA 7890008967
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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 data)

1. EXISTING FACILITY (See instructions for definition of "existing" facility. Complete item below)

2. NEW FACILITY (Complete item below)

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
06	01	51

MO	DAY	YR

FOR NEW FACILITIES, PROVIDE THE DATE (mo., day, & yr.) OPERATION BEGAN OR IS EXPECTED TO BEGIN

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

1. FACILITY HAS AN INTERIM STATUS PERMIT

2. FACILITY HAS A FINAL PERMIT

III. 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 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 CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Storage:				
CONTAINER (barrel, drum, etc)	SO1	GALLONS OR LITERS		
TANK	SO2	GALLONS OR LITERS	TO1	GALLONS PER DAY OR LITERS PER DAY
WASTE PILE	SO3	CUBIC YARDS OR CUBIC METERS	TO2	GALLONS PER DAY OR LITERS PER DAY
SURFACE IMPOUNDMENT	SO4	GALLONS OR LITERS	TO3	TONS PER HOUR OR METRIC TONS PER HOUR
Disposal:				
INJECTION WELL	DB0	GALLONS OR LITERS		
LANDFILL	DB1	ACRE FEET (the volume that would cover one acre to a depth of one foot)	TO4	GALLONS PER HOUR OR LITERS PER HOUR
LAND APPLICATION	DB2	ACRES OR HECTARES		
OCEAN DISPOSAL	DB3	GALLONS PER DAY OR LITERS PER DAY		
SURFACE IMPOUNDMENT	DB4	GALLONS OR LITERS		
Treatment:				
TANK				
SURFACE IMPOUNDMENT				
INCINERATION				
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)				

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
GALLONS	U	LITERS PER DAY	V	ACRE FEET	A
LITERS	L	TONS PER HOUR	U	HECTARE METERS	P
CUBIC YARDS	Y	METRIC TONS PER HOUR	W	ACRES	U
CUBIC METERS	C	GALLONS PER HOUR	E	HECTARES	Q
GALLONS PER DAY	U	LITERS PER HOUR	H		

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

LINE NUMBER	A. PROCESS CODE	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS CODE	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY
		1. AMOUNT (capacity)	2. UNIT OF MEASURE (enter code)					1. AMOUNT (capacity)	2. UNIT OF MEASURE (enter code)		
X-1	SO2	600	G		5						
X-2	TO3	20	E		6						
1	SO2	9,500	G		7						
2	TO1	206	U		8						
3	SO1	540	G		9						
4					10						

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III. PROCESSES (continued)

7. SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESS (CODE "10") FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

The 222-S Laboratory Complex consists of following two waste management units, the 219-S Waste Handling Facility and the 222-S Dangerous and Mixed Waste Storage Area. Processes associated with these two units are described as follows:

502-101 - The 219-S Waste Handling Facility is located northeast of the 222-S Analytical Laboratory Building. The 219-S Waste Handling Facility contains three stainless steel tanks: 101 (4,000 gallon), 102 (4,000 gallon), and 103 (1,500 gallon) located in a underground concrete vault (502). Tanks 101 and 103 are used for the primary and backup storage of mixed waste from the 222-S Analytical Laboratory. The mixed waste is transferred from tanks 101 and 103 to tank 102 for treatment (101) and storage before transfer to the Double-Shell Tank (DST) System. The mixed waste is treated in tank 102 with sodium hydroxide (NaOH) to a pH greater than or equal to 12.0 and with sodium nitrite (NaNO₂) to a concentration of 600 parts per million. This treatment process makes the mixed waste more amenable for storage in the DST System. The maximum process design capacity of the three storage tanks is 9,500 gallons. The maximum treatment process design capacity for tank 102 is 206 gallons per day (75,000 gallons per year).

501 - The 222-S Dangerous and Mixed Waste Storage Area is located on the north side of the 222-S Analytical Laboratory Building. The 222-S Dangerous and Mixed Waste Storage Area consists of two metal storage structures resting on a concrete pad. The 222-S Dangerous and Mixed Waste Storage Area stores a total of 36 55-gallon U.S. Department of Transportation-specified drums of mixed waste and nonradioactive dangerous waste (501). Each metal storage structure holds a total of 18 drums of waste. The drums are stored at the 222-S Dangerous and Mixed Waste Storage Area until transferred to the Hanford Central Waste Complex (mixed waste) or the 616 Nonradioactive Dangerous Waste Storage Facility (nonradioactive dangerous waste) for storage and/or disposal. The maximum design capacity of the 222-S Dangerous and Mixed Waste Storage Area is 540 gallons (15 gallons per drum).

IV. DESCRIPTION OF DANGEROUS WASTES

- A. **DANGEROUS WASTE NUMBER** - Enter the four digit number from Chapter 173 J03 WAC for each listed dangerous waste you will handle. If you handle dangerous wastes which are not listed in Chapter 173 J03 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
LITERS	L	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 wastes: 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 operations. 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.

L I N E N O .	A. DANGEROUS WASTE NO. (enter code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEAS- URE (enter code)	D. PROCESSES	
				1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a Code is not entered - U(1))
X-1	K 0 5 1	900	P	F 0 1 D S D	
X-2	D 0 0 2	200	P	F 0 1 D S 0	
X-3	D 0 0 1	100	P	F 0 1 D S 0	
X-4	D 0 0 2			F 0 1 D S 0	included with above

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Continued from page 2.

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

10. NUMBER (enter from page 1)
 WA 7 8 9 0 0 0 8 9 6 7

IV. DESCRIPTION OF DANGEROUS WASTES (continued)

L I N E N O. E.	A. DANGEROUS WASTE NO. (enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (enter code)	D. PROCESSES					
	1	2	3	4			1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a code is not entered in D(1))	
1	D	0	1	5	12,000 (continued)	P	S	0	1			Storage - Container (continued)
2	D	0	1	6								
3	D	0	1	7								
4	D	0	1	8								
5	D	0	1	9								
6	D	0	2	0								
7	D	0	2	1								
8	D	0	2	2								
9	D	0	2	3								
10	D	0	2	4								
11	D	0	2	5								
12	D	0	2	6								
13	D	0	2	7								
14	D	0	2	8								
15	D	0	2	9								
16	D	0	3	0								
17	D	0	3	1								
18	D	0	3	2								
19	D	0	3	3								
20	D	0	3	4								
21	D	0	3	5								
22	D	0	3	6								
23	D	0	3	7								
24	D	0	3	8								
25	F	0	0	1								
26	F	0	0	2								

9 2 1 2 4 1 6 1 5 6 4

Continued from page 2.

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

10. NUMBER (enter 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	A. DANGEROUS WASTE NO. (page code)	B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEAS- URE (enter code)	D. PROCESSES										
				1. PROCESS CODES (enter)				2. PROCESS DESCRIPTION (if a waste is not described in D(1))						
1	F 0 0 3	12,000 (continued)	P	S	0	1					Storage - Container (continued)			
2	F 0 0 5													
3	F 0 2 7													
4	W C 0 1													
5	W C 0 2													
6	W P 0 1													
7	W T 0 1													
8	W T 0 2										Included With Above			
9														
10														
11														
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IV. DESCRIPTION OF DANGEROUS WASTES (Continued)

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

The mixed waste from the 222-S Analytical Laboratory flows by gravity through underground pipelines to the 219-S Waste Handling Facility for treatment and storage. The mixed waste is considered corrosive (D002) because of the presence of nitric acid and is treated before transfer to the DST System. The treated mixed waste consists of toxicity characteristics (D004 through D011), spent nonhalogenated solvents (F003 and F005), and state-only waste (WT01).

The mixed waste and nonradioactive dangerous waste drums that are stored at the 222-S Dangerous and Mixed Waste Storage Area consists of characteristic waste (D001, D002, and D003), toxicity characteristic waste (D004 through D038), spent halogenated and nonhalogenated solvents (F001, F002, F003, F005, and F027), and state-only waste (WC01, WC02, WP01, WT01, and WT02).

V. FACILITY DRAWING

All existing facilities must include in the space provided on page 3 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
United States Department of Energy
DOE Richland Field Office**

SIGNATURE

DATE SIGNED

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

92124161566

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.

Edward S. Kelley

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

12/20/91
Date

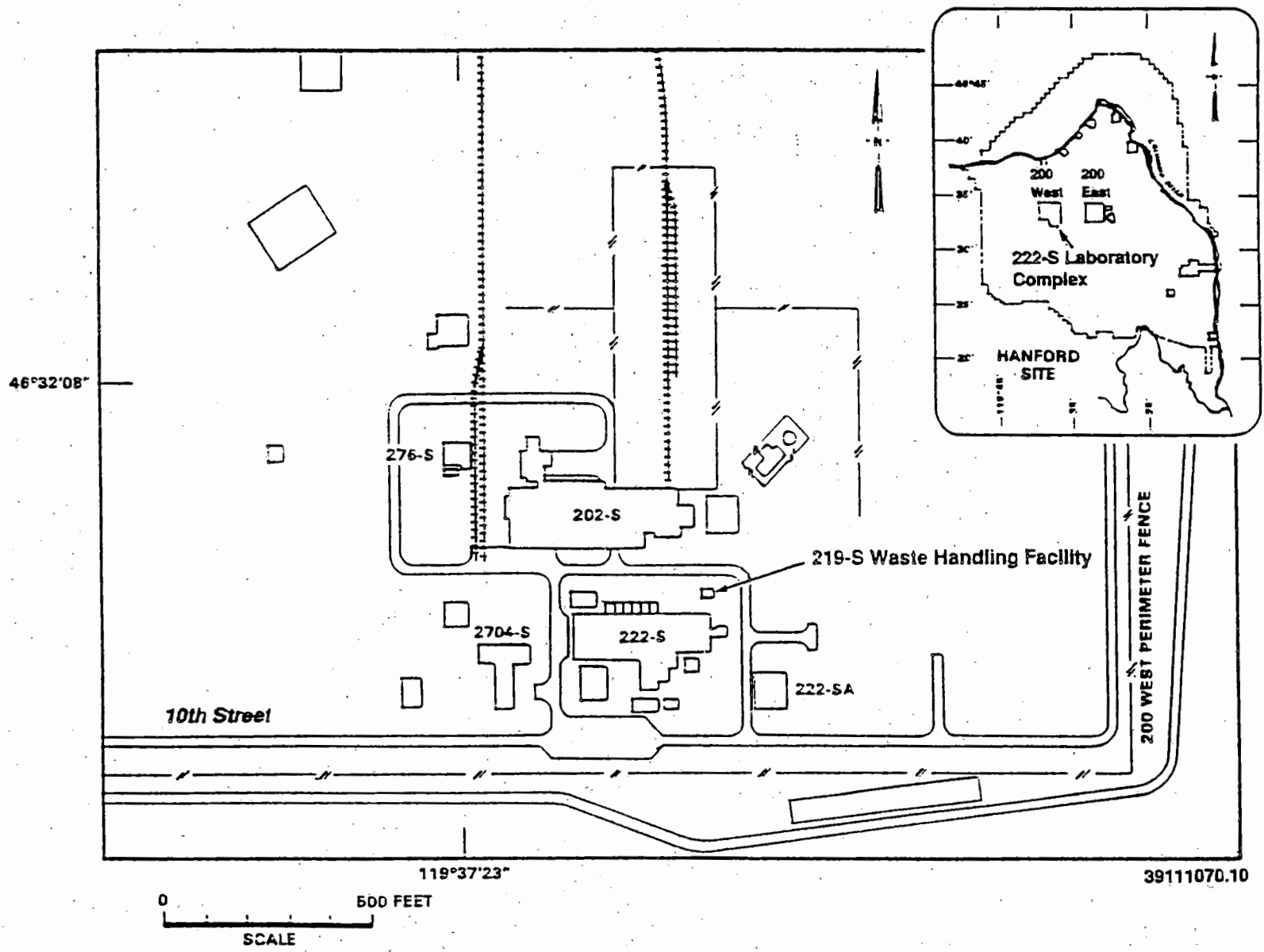
Thomas M. Anderson

Co-operator
Thomas M. Anderson, President
Westinghouse Hanford Company

11/26/91
Date

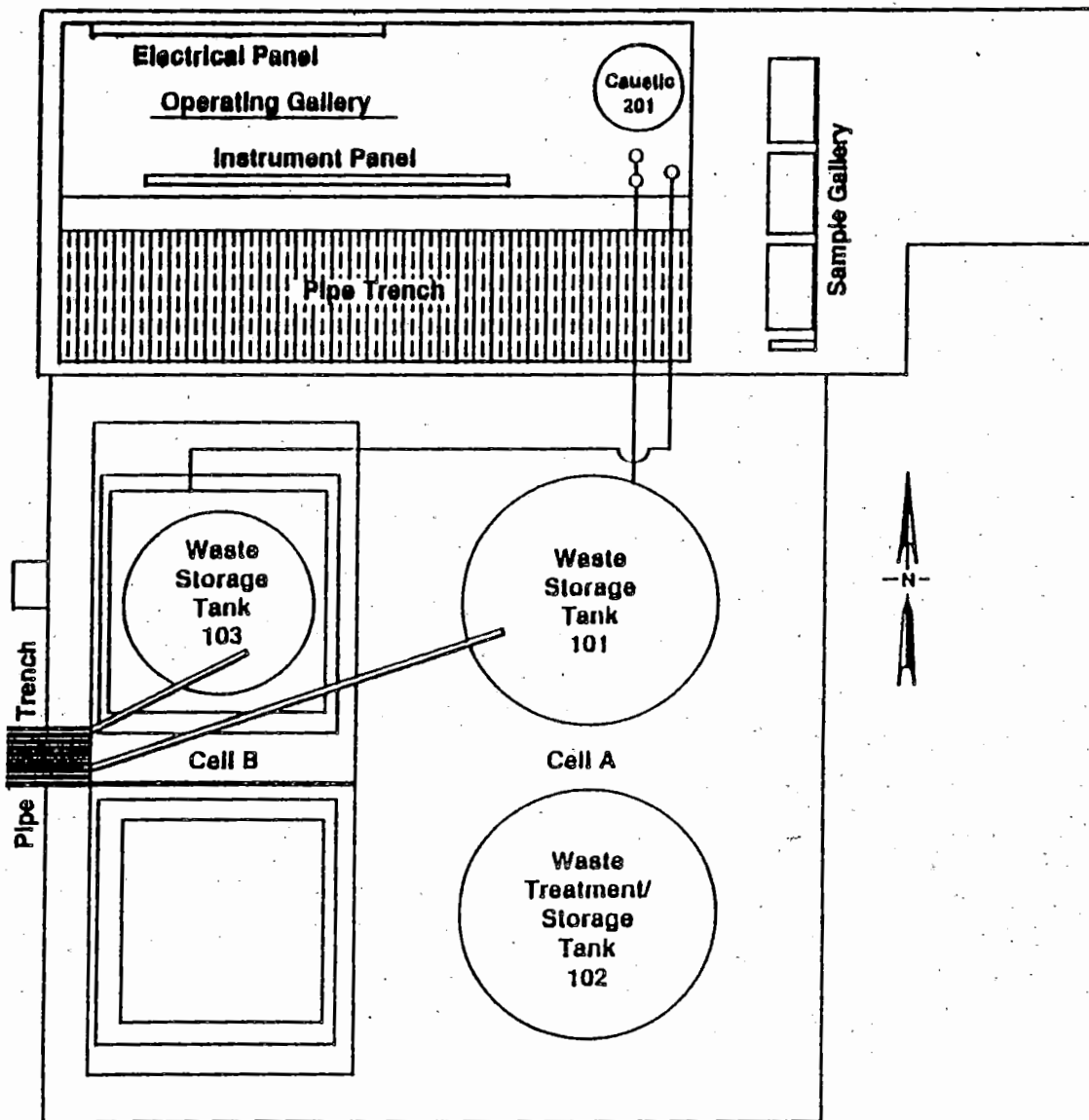
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222-S Laboratory Complex 219-S Waste Handling Facility Tanks 101,102, and 103 Site Plan



WA7890008967

222-S LABORATORY COMPLEX

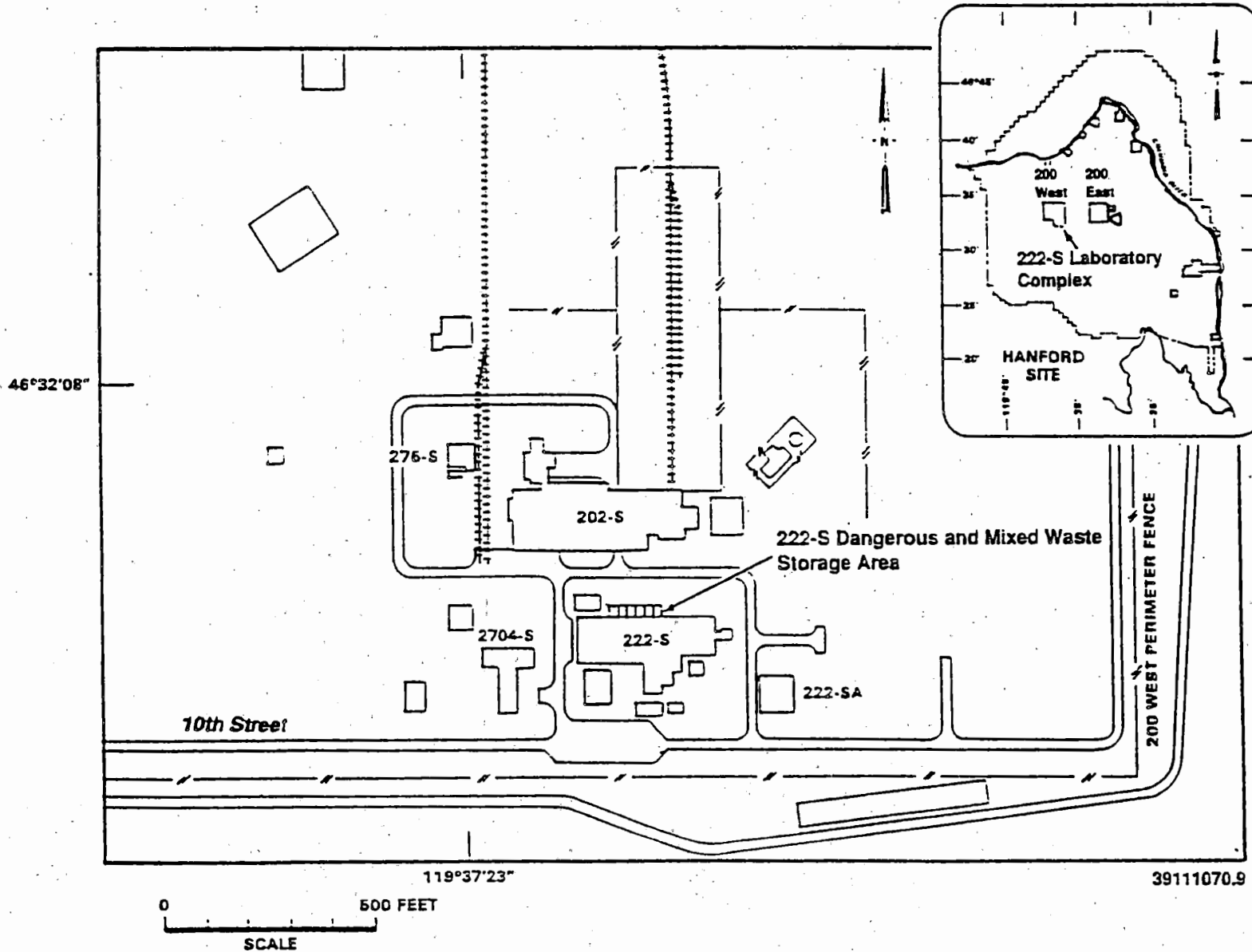


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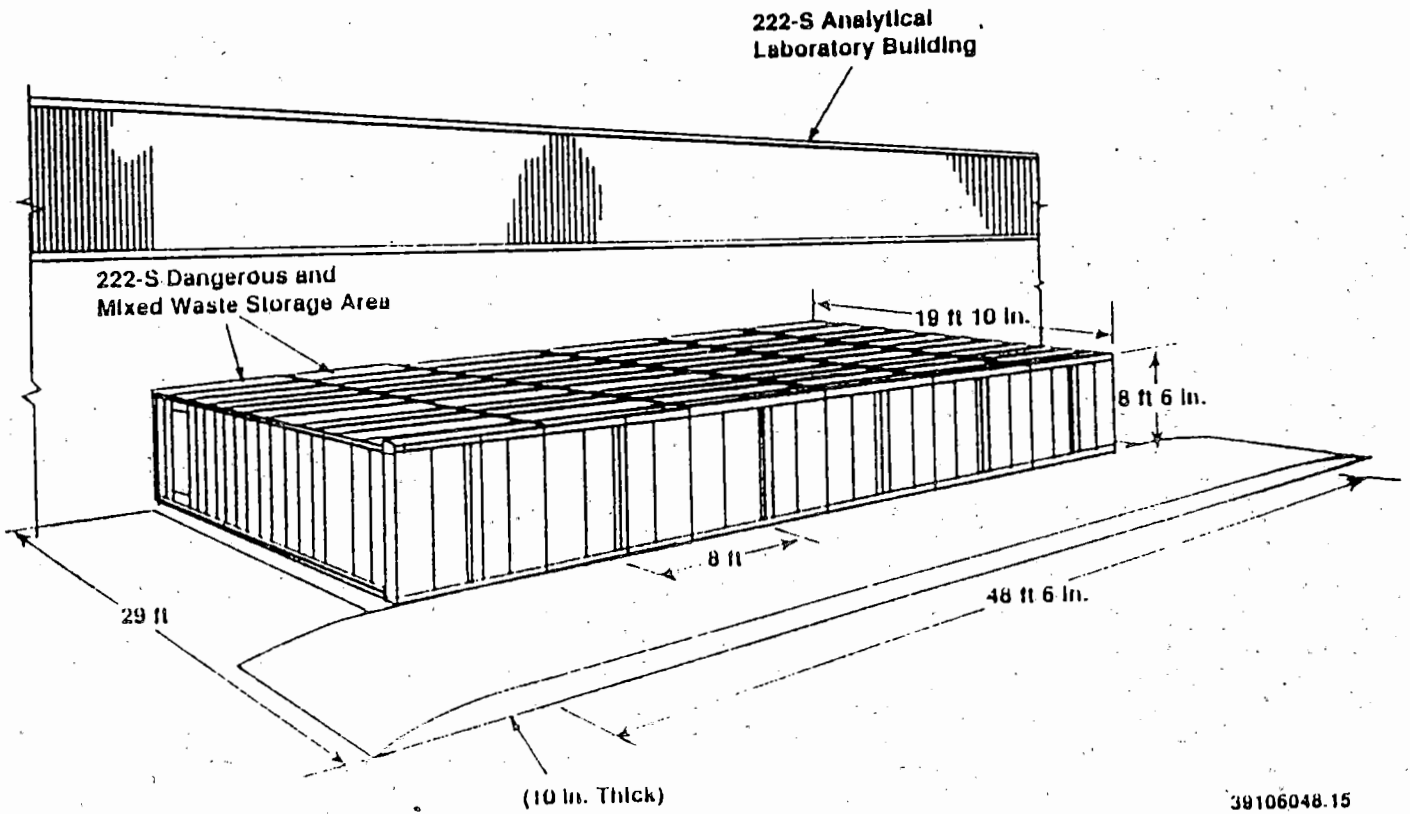
219-S WASTE HANDLING FACILITY
TANKS 101, 102, AND 103

222-S Laboratory Complex 222-S Dangerous and Mixed Waste Storage Area Site Plan



WA7890008967

222-S LABORATORY COMPLEX

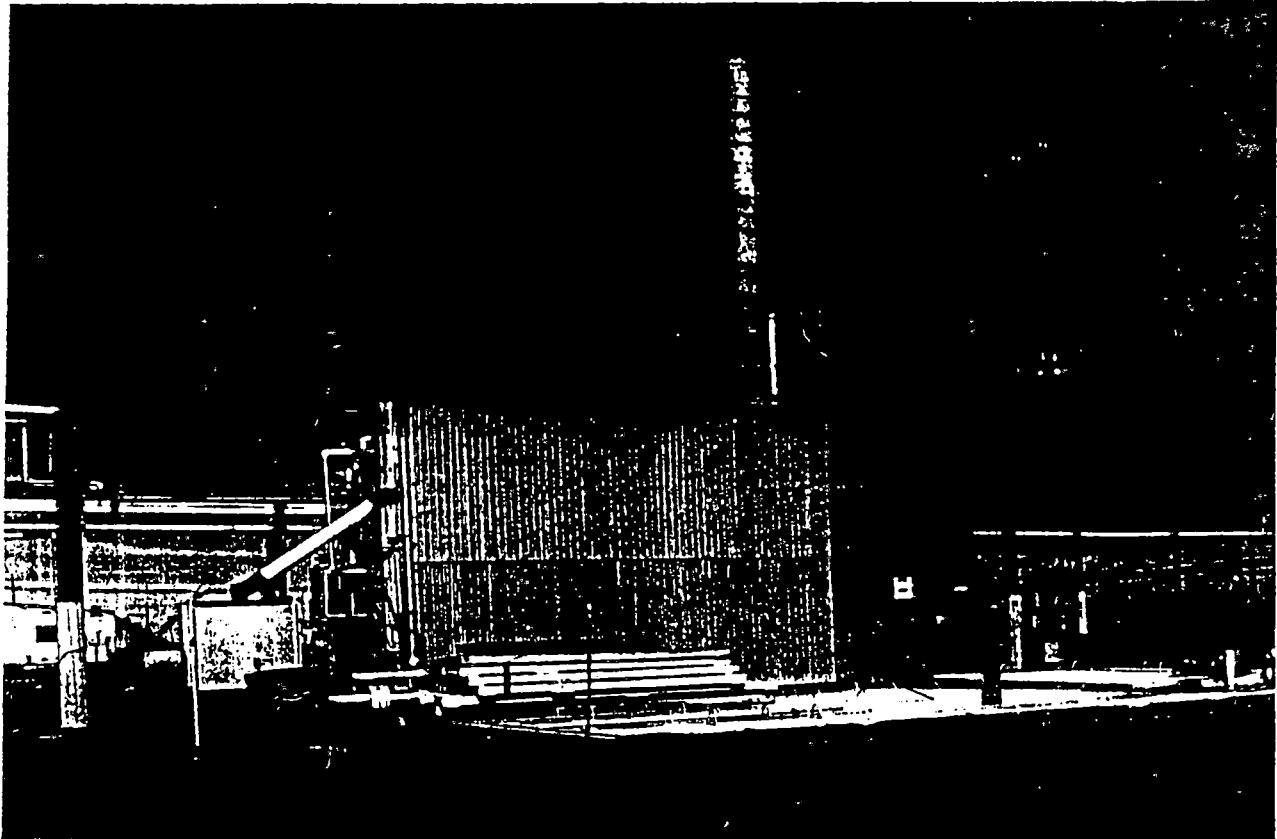


39106048.15

222-S DANGEROUS AND MIXED WASTE STORAGE AREA

92124161571

222-S LABORATORY COMPLEX



219-S Waste Handling Facility

46°32'02"
119°37'12"

91092605-2CH
(PHOTO TAKEN 1991)

92124161572

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA



9 2 1 2 4 1 6 1 5 7 3

Metal Storage Structures on Storage Pad

46°32'02"
119°37'12"

9102217-24CN
(PHOTO TAKEN 1991)

222-S LABORATORY COMPLEX DANGEROUS AND MIXED WASTE STORAGE AREA



Metal Storage Structure Internal View

46°32'02"
119°37'12"

9102217-27CN
(PHOTO TAKEN 1991)

92124161574