



Department of Energy

9208793

Richland Field Office

P.O. Box 550

Richland, Washington 99352

NOV 18 1992



93-RPB-032

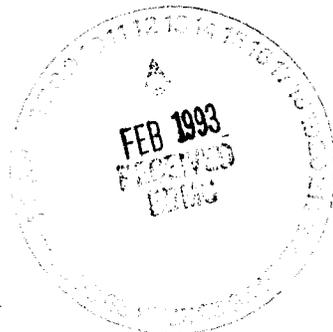
Mr. David B. Jansen, P.E.
Hanford Project Manager
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

Dear Mr. Jansen:

218-E-8 BORROW PIT DEMOLITION SITE DANGEROUS WASTE PART A PERMIT APPLICATION
FORM 3, REVISION 3 (WA7890008967) (TSD: T-2-1)

Attached is the 218-E-8 Borrow Pit Demolition Site (218-E-8 Demolition Site) Dangerous Waste Part A Permit Application (Part A) Form 3, Revision 3. The 218-E-8 Demolition Site is located in the 200 East Area of the Hanford Facility. This demolition site was used to detonate explosive dangerous wastes that were generated on the Hanford Site.

The 218-E-8 Demolition Site Part A, Form 3, has been revised to add five new dangerous waste codes and to remove 26 dangerous waste codes present in the previous revision of this Part A. These dangerous waste codes have been changed to reflect increased knowledge of the waste treated at the 218-E-8 Demolition Site gained during preparation of the 218-E-8 Demolition Site Closure Plan.



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DATE _____

NOV 18 1992

Mr. David B. Jansen
93-RPB-032

-2-

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

Sincerely,

James D. Bauer
James D. Bauer, Acting Program Manager
Office of Environmental Assurance
Permits, and Policy
DOE Richland Field Office

EAP:CEC

R. E. Lerch

R. E. Lerch, Deputy Director
Restoration and Remediation
Westinghouse Hanford Company

Attachment:
218-E-8 Demolition Site
Part A Permit Application

cc w/o attach:

~~████████████████████~~
P. T. Day, EPA
D. L. Duncan, EPA
G. W. Jackson, WHC
T. M. Michelena, Ecology
D. C. Nylander, Ecology

**218-E-8 BORROW PIT DEMOLITION SITE PART A PERMIT APPLICATION REVISION
EXPLANATION (WA7890008967) (TSD: T-2-1)**

This Dangerous Waste Part A permit application (Part A) consists of a Form 1 (not revised) and a Form 3, Revision 3, that describes the 218-E-8 Borrow Pit Demolition Site (218-E-8 Demolition Site) in general terms.

The 218-E-8 Demolition Site Part A, Form 3, has been revised to add five new dangerous waste codes and to remove 26 dangerous waste codes present in the previous revision of this Part A. The revision to this Part A is based on information obtained for the 218-E-8 Demolition Site Closure Plan, which is scheduled to be transmitted to the State of Washington Department of Ecology by November 30, 1992 (Hanford Federal Facility Agreement and Consent Order Milestone M-20-28). The dangerous waste codes were changed in compliance with the Washington Administrative Code (WAC) 173-303-805. This regulation requires submittal of a revised Part A that includes any dangerous waste that has not been previously identified that might be treated, stored, and/or disposed of at an interim status unit.

- Section I U.S. Environmental Protection Agency/State Identification Number - No change.
- Section II First or Revised Application - No change.
- Section III Processes - Codes and Design Capacities - This section describes the process code and processes design capacities of the 218-E-8 Demolition Site. Blocks A. and B., have no changes. Section III.C., "Processes" was updated to better describe the waste treatment process at the 218-E-8 Demolition Site based on information gained during preparation of the 218-E-8 Demolition Site Closure Plan.
- Section IV Description of Dangerous Waste - This section describes the waste that is treated at the 218-E-8 Demolition Site. In Block A., five new dangerous waste codes have been added, and 26 dangerous waste codes have been removed. Table 1 of this explanation provides the dangerous waste code numbers and the description of chemical constituents for the waste codes that have been added to this Part A. Table 2 of this explanation provides the dangerous waste code numbers and the description of chemical constituents for the waste codes that have been removed from the 218-E-8 Demolition Site Part A. Blocks B., C., and D. have been updated to reflect the changes in the dangerous waste codes. Section IV.E., "Description of Dangerous Waste" has been updated to better describe the dangerous waste treated at the 218-E-8 Demolition Site.
- Section V Facility Drawings - The Site Plan for the 218-E-8 Demolition Site has been replaced with an up-to-date drawing.

Section VI Photographs - A new photograph of the 218-E-8 Demolition Site has been added.

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, Richland Field Office (RL).

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

Section X Operator Certification - An attachment is provided to the Form 3 to be signed by the Manager, RL as "Owner/Operator" and the President, 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.

TABLE 1
DANGEROUS WASTE IDENTIFICATION NUMBERS
ADDED PER WAC-173-303

Part A, Section IV

<u>Dangerous Waste Code</u>	<u>Description of Chemical Constituent</u>
D035	Methyl ethyl ketone
U098	Dimethyihydrazine
U108	1,4-Dioxane
U159	Methyl ethyl ketone
WC01	Carcinogenic-extremely hazardous waste, (e.g., hydrazine monohydrate), state-only designation

TABLE 2
DANGEROUS WASTE IDENTIFICATION NUMBERS
REMOVED PER WAC-173-303
Part A, Section IV

<u>Dangerous Waste Code</u>	<u>Description of Chemical Constituent</u>
D007	Chromium
D008	Lead
D010	Selenium
D011	Silver
U006	Acetyl chloride
U020	Benzenesulfonic acid chloride
U023	Benzotrichloride
U096	Dimethylbenzylhydroperoxide
U117	Ethane, 1.1-oxybis-
U133	Hydrazine
U160	2-Butanone peroxide
U163	Guanidine
U189	Phosphorus sulfide
U205	Sulfur selenide
U213	Tetrahydrofuran
U223	Toluene diisocyanate
U234	Benzene, 1.3.5-trinitro-
P006	Aluminum phosphide
P009	Ammonium picrate
P022	Carbon disulfide
P048	Dinitrophenol
P062	Hexaethyl tetraphosphate
P065	Mercury fulminate
P081	Nitroglycerine
P112	Tetranitromethane
P122	Zinc phosphide

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 <i>(mo., day, & yr.)</i>	

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 <i>(place an "X" below and provide the appropriate date)</i>													
<input type="checkbox"/> 1. EXISTING FACILITY <i>(See instructions for definition of "existing" facility. Complete item below.)</i> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr><td>MO.</td><td>DAY</td><td>YR.</td></tr> <tr><td>08</td><td></td><td>84</td></tr> </table> FOR EXISTING FACILITIES, PROVIDE THE DATE <i>(mo., day, & yr.)</i> OPERATION BEGAN OR THE DATE CONSTRUCTION COMMENCED <i>(use the boxes to the left)</i>	MO.	DAY	YR.	08		84	<input type="checkbox"/> 2. NEW FACILITY <i>(Complete item below)</i> <table border="1" style="width:100%; border-collapse: collapse; text-align: center;"> <tr><td>MO.</td><td>DAY</td><td>YR.</td></tr> <tr><td></td><td></td><td></td></tr> </table> FOR NEW FACILITIES, PROVIDE THE DATE, <i>(mo., day, & yr.)</i> OPERATION BEGAN OR IS EXPECTED TO BEGIN	MO.	DAY	YR.			
MO.	DAY	YR.											
08		84											
MO.	DAY	YR.											

B. REVISED APPLICATION <i>(place an "X" below and complete Section I above)</i>	
<input checked="" type="checkbox"/> 1. FACILITY HAS AN INTERIM STATUS PERMIT	<input 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 <i>(the volume that would cover one acre to a depth of one foot)</i> 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 <i>(from list above)</i>	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY	LINE NUMBER	A. PRO-CESS CODE <i>(from list above)</i>	B. PROCESS DESIGN CAPACITY			FOR OFFICIAL USE ONLY
		1. AMOUNT <i>(specify)</i>	2. UNIT OF MEASURE <i>(enter code)</i>						1. AMOUNT <i>(specify)</i>	2. UNIT OF MEASURE <i>(enter code)</i>	
X-1	S02	600	G			5					
X-2	T03	20	E			6					
1	T04	150	U			7					
2						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.

T04

The 218-E-8 Borrow Pit Demolition Site (218-E-8 Demolition Site) is located in the 200 East Area of the Hanford Facility. The 218-E-8 Demolition Site was used to detonate explosive waste that was generated on the Hanford Site. The process design capacity for treatment for the 218-E-8 Demolition Site was 150 gallons (569 liters) per day.

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	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				2. PROCESS DESCRIPTION (if a code is not entered in D(1))
							1. PROCESS CODES (enter)				
1	D	0	0	1	1,000	K	T04				Treatment-Other (Demolition)
2	D	0	0	2							
3	D	0	0	3							
4	D	0	3	5							
5	U	0	9	8							
6	U	1	0	8							
7	U	1	5	9							
8	W	C	0	1							
9	W	T	0	1							
10	W	T	0	2							Included with above.
11											
12											
13											
14											
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19											
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22											
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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.

The 218-E-8 Demolition Site was used for the treatment of shock-sensitive or potentially explosive chemical waste. This waste exhibited the dangerous waste characteristics of ignitability (D001) and reactivity (D003). Some of the compounds also exhibited the dangerous waste characteristic of corrosivity (D002) and may have the state-only designations for toxic dangerous waste (WT02) and carcinogenic extremely hazardous waste (WC01). The estimated annual quantity of waste of 1,000 kilograms (2204 pounds) represents the total amount of waste that is believed to have been treated at the 218-E-8 Demolition Site.

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
--	-----------	-------------

X. OPERATOR CERTIFICATION

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

NAME (print or type) SEE ATTACHMENT	SIGNATURE	DATE SIGNED
--	-----------	-------------

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 Field Office

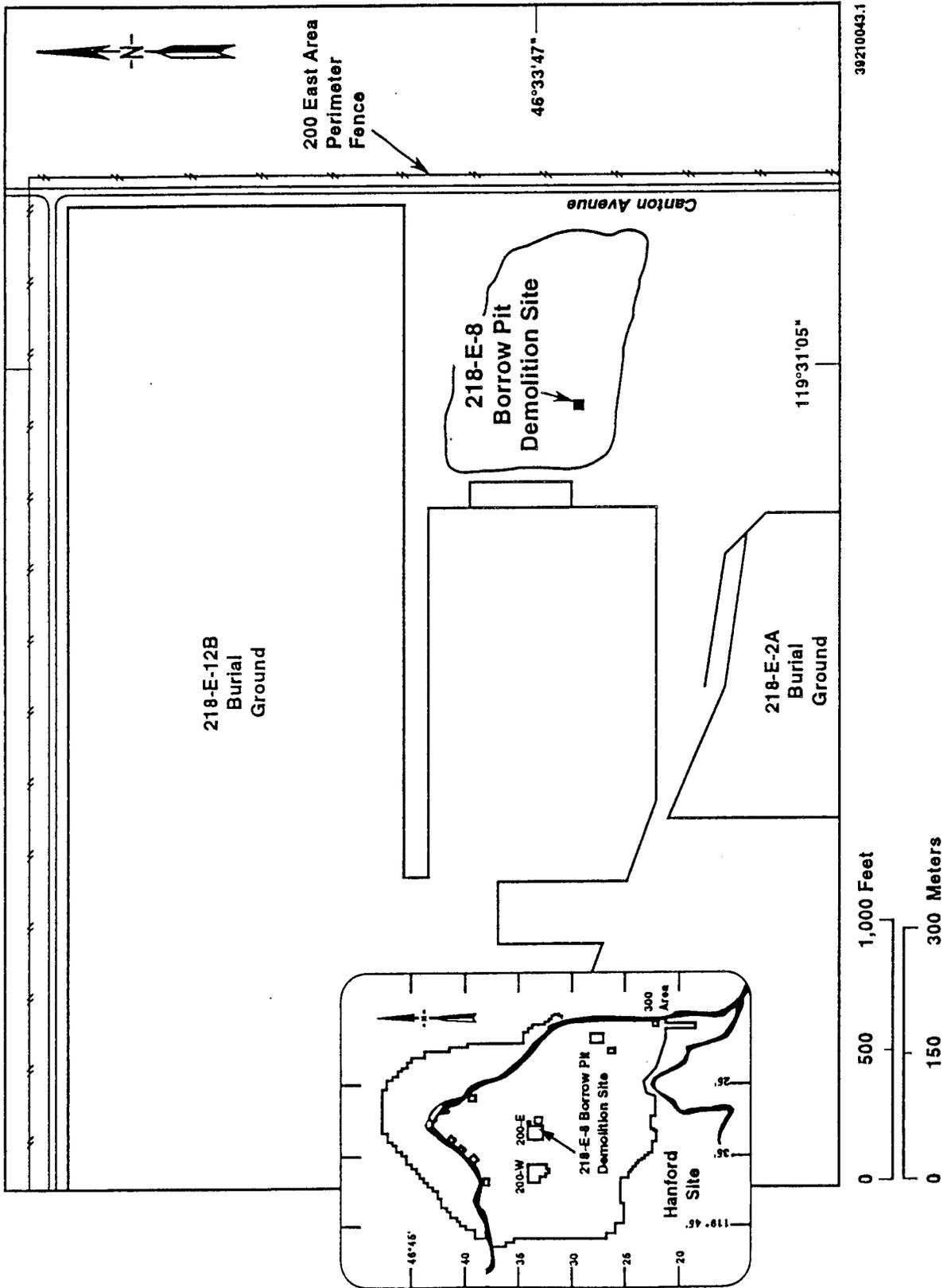
Date



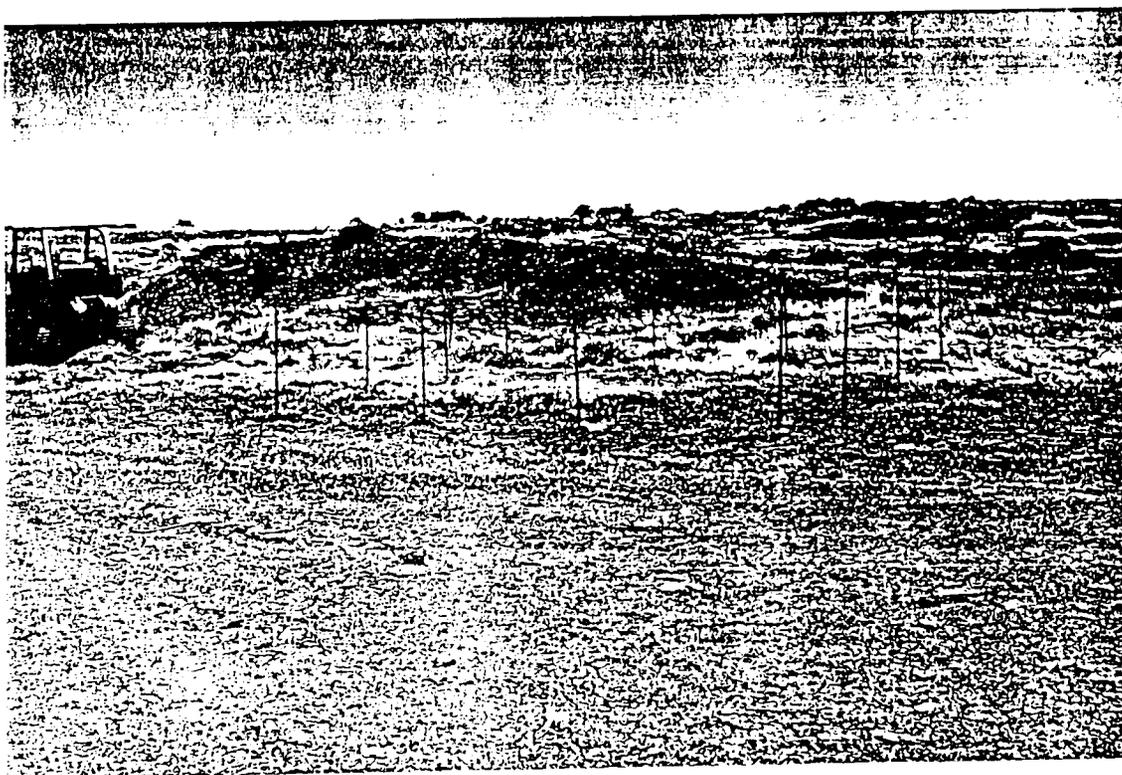
Co-Operator
Thomas M. Anderson, President
Westinghouse Hanford Company

10-30-92
Date

218-E-8 Borrow Pit Demolition Site
 Site Plan



200 West Area Ash Pit Demolition Site



46°33'10.37"
119°36'44.58"

92070921-7W
(PHOTO TAKEN 1992)

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
J. D. Bauer, RL R. E. Lerch, WHC (S. A. Thompson, WHC)	D. B. Jansen, Ecology	Incoming 9208793 Xref 9257681D

Subject: 218-E-8 BORROW PIT DEMOLITION SITE DANGEROUS WASTE PART A PERMIT
APPLICATION FORM 3, REVISION 3 (WA7890008967) (TSD: T-2-1)

INTERNAL DISTRIBUTION

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		D. P. Butcher	H6-23	
		B. W. Cameron	G5-50	
		G. D. Carpenter	H6-20	
		C. J. Chou	H6-06	
		S. B. Clifford	H6-23	
		D. O. Hess	L6-57	
		G. W. Jackson, Assignee	H6-20	
		W. L. Johnson	H6-04	
		D. L. Korematsu-Olund	H6-23	
		M. J. La Barge	H6-21	
		R. J. Landon	H6-22	
		P. J. Mackey	B3-15	
		H. E. McGuire, Level 1	B3-63	
		T. E. Moody	H6-04	
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		M. R. Romsos	N3-11	
		W. A. Skelly	H6-03	
		L. K. Thompson	T6-08	
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		L. W. Vance	H4-16	
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		J. F. Williams Jr.	H6-24	
		B. D. Williamson	B3-15	
		EDMC	H6-08	
		RCRA File/GHL	H6-23	
		SAT File/LB	H6-24	