

114538



Department of Energy

Richland Field Office

9208796

P.O. Box 550

Richland, Washington 99352

NOV 18 1992

93-RPB-031

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:

HANFORD PATROL ACADEMY DEMOLITION SITES DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 3 (WA7890008967) (TSD: T-11-1)

Enclosed is the Hanford Patrol Academy Demolition Sites (HPADS) Dangerous Waste Part A Permit Application (Part A) Form 3, Revision 3. The HPADS is located in the 1100 Area of the Hanford Facility. The HPADS was used to detonate explosive dangerous waste that was generated on the Hanford Site. The HPADS halted treatment of waste in 1991.

The Form 3 for the HPADS has been revised to add seven new dangerous waste codes, and to remove 20 dangerous waste codes present in the previous revision of this Part A. The change in waste codes is based on information obtained for the HPADS Closure Plan, Revision 0, which is scheduled to be sent to the State of Washington Department of Ecology by November 30, 1992 (Hanford Federal Facility Agreement and Consent Order Milestone M-20-25). The changes in dangerous waste codes are in compliance with the Washington State Dangerous Waste Regulation 173-303-805.



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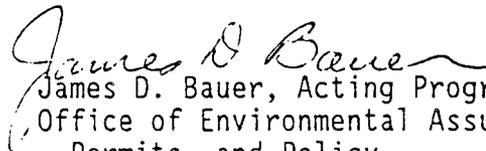
Mr. David B. Jansen  
93-RPB-031

-2-

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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, Acting Program Manager  
Office of Environmental Assurance,  
Permits, and Policy  
DOE Richland Field Office

EAP:CEC



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

Enclosure:  
Hanford Patrol Academy Demolition Site  
Part A Permit Application

cc w/o encl.:  
R. C. Bowman, WHC  
P. T. Day, EPA  
D. L. Duncan, EPA  
G. W. Jackson, WHC  
T. M. Michelena, Ecology  
D. C. Nylander, Ecology

**HANFORD PATROL ACADEMY DEMOLITION SITES PART A PERMIT APPLICATION  
REVISION EXPLANATION (TSD: T-11-1)**

This Dangerous Waste Part A permit application (Part A) consists of a Form 1 (not revised) and a Form 3, Revision 3, describing the Hanford Patrol Academy Demolition Sites (HPADS) in general terms.

The HPADS Part A, Form 3, has been revised to add seven new dangerous waste codes, and to remove 20 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 HPADS 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-20-25). 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 codes and process design capacities of the HPADS. Blocks A. through B.2 have no changes. Section III.C., "Processes," has been updated to better describe the waste treatment process at the HPADS, based on information acquired during preparation of the HPADS closure plan.
- Section IV           Description of Dangerous Waste - This section describes the dangerous waste that was treated at the HPADS. In Block A., seven new dangerous waste codes have been added and 20 waste codes have been removed. Table 1 of this explanation provides dangerous waste code numbers and a description of chemical constituents for the waste codes that have been added to the HPADS Part A. Table 2 of this explanation provides dangerous waste code numbers and a description of chemical constituents for waste codes that have been removed from the HPADS Part A. Blocks B., C., and D. have been updated to reflect the changes in the waste codes. Section IV.E., "Description of Dangerous Waste" has been updated to better describe the dangerous waste that was treated at the HPADS.
- Section V            Facility Drawings - The HPADS Site Plan has been updated.
- Section VI           Photographs - The photograph of the HPADS has been updated.
- 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>
D018	Benzene
P105	Sodium azide
U108	1,4-Dioxane
WP01	Persistent - halogenated hydrocarbons, Extremely Hazardous Waste (EHW), state-only waste designation, (e.g., borontrifluoride ether complex)
WP03	Persistent - polycyclic aromatic hydrocarbons, EHW, state-only waste designation, (e.g., naphthalene)
WC01	Carcinogenic, EHW, state-only waste designation, (e.g., hydrazine monohydrate)
WC02	Carcinogenic, Dangerous Waste, state-only designation, (e.g., butyllithium/benzene mixture)

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
U160	2-Butanone peroxide
U163	Guanidine
U189	Phosphorus sulfide
U205	Sulfur selenide
U223	Toluene diisocyanate
P006	Aluminum phosphide
P009	Ammonium picrate
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).

<b>FORM 3</b>	<b>DANGEROUS WASTE PERMIT APPLICATION</b>	1. EPA/STATE I.D. NUMBER WA 7890008967
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FOR OFFICIAL USE ONLY		COMMENTS
APPLICATION APPROVED	DATE RECEIVED <i>(mo., day, &amp; 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** (place an "X" below and provide the appropriate date)

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

2. NEW FACILITY (Complete item below)

MO. 08	DAY	YR. 84	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.	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 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
<b>Storage:</b>			<b>Treatment:</b>		
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
<b>Disposal:</b>					
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. PROCESS CODE (from list above)	B. PROCESS DESIGN CAPACITY		FOR OFFICIAL USE ONLY	LINE NUMBER	A. PROCESS 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	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 Hanford Patrol Academy Demolition Sites (HPADS) were two adjacent demolition sites located in the 1100 Area of the Hanford Facility. These demolition sites were used to detonate explosive wastes (T04) that were generated on the Hanford Site. The treatment design capacity of the HPADS was 150 gallons (570 liters) of waste 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										
							1. PROCESS CODES (enter)					2. PROCESS DESCRIPTION (if a code is not entered in D(1))					
1	D	0	0	1	1000	K	T04										Treatment-Other (Demolition)
2	D	0	0	2													
3	D	0	0	3													
4	D	0	1	8													
5	P	0	2	2													
6	P	0	4	8													
7	P	1	0	5													
8	U	1	0	8													
9	U	1	1	7													
10	U	1	3	3													
11	U	2	1	3													
12	U	2	3	4													
13	W	T	0	1													
14	W	T	0	2													
15	W	P	0	1													
16	W	P	0	3													
17	W	C	0	1													
18	W	C	0	2													Included with above
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.

The HPADS were used for the treatment of nonradioactive explosive, ignitable, shock-sensitive, and/or reactive discarded chemical compounds. The discarded chemical compounds treated at the HPADS all 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 extremely hazardous waste (WT01), toxic dangerous waste (WT02), persistent - halogenated hydrocarbons, extremely hazardous waste, (WP01), persistent - polycyclic aromatic hydrocarbons, extremely hazardous waste, (WP03), carcinogenic extremely hazardous waste (WC01), and/or carcinogenic dangerous waste (WC02). The Estimated Annual Quantity of Dangerous Waste (item IV.B) of 1,000 kilograms (2,204 pounds) represents the maximum total amount of waste that is believed to have been treated at the HPADS.

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.

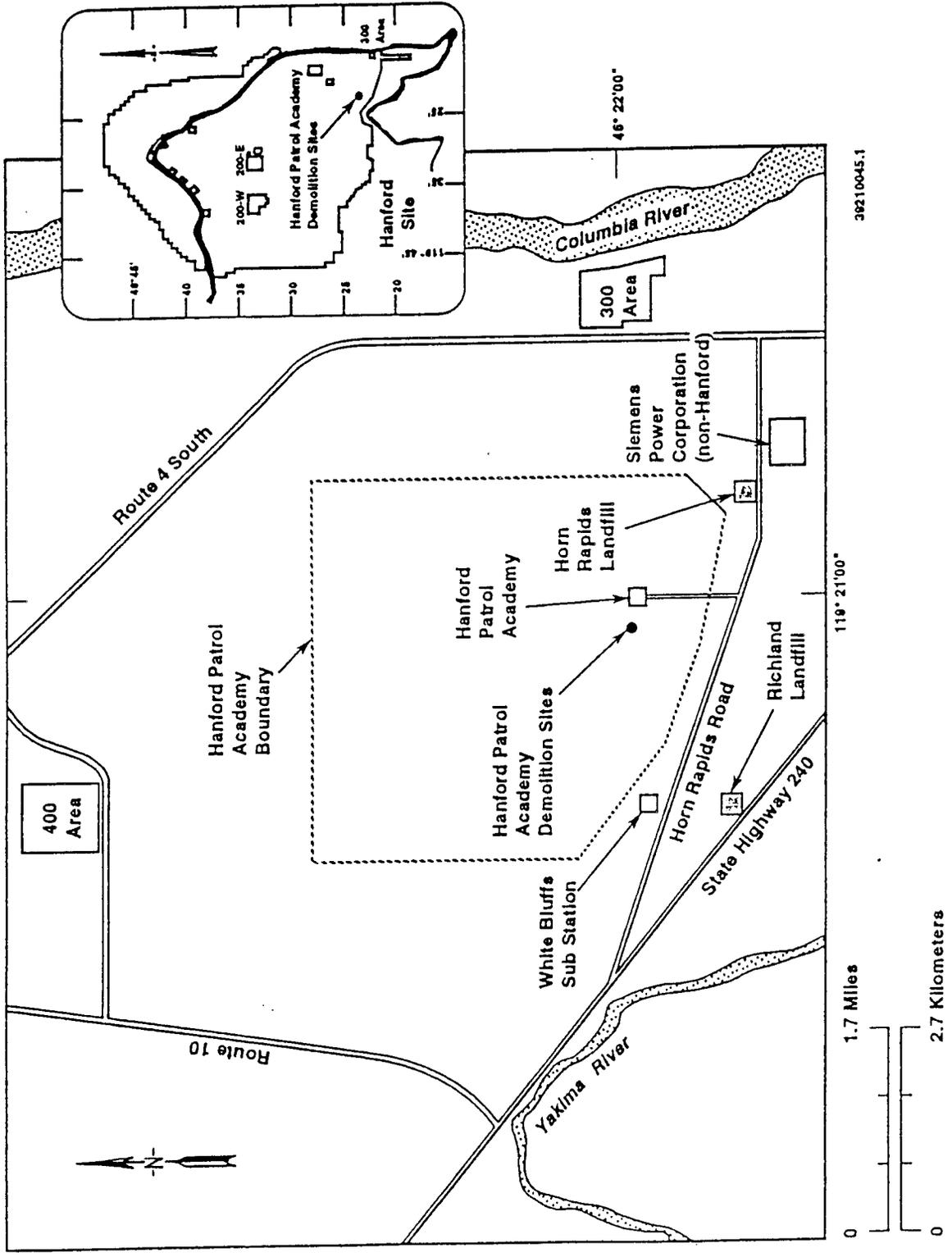
\_\_\_\_\_  
Owner/Operator  
John D. Wagoner, Manager  
U.S. Department of Energy  
Richland Field Office

\_\_\_\_\_  
Date

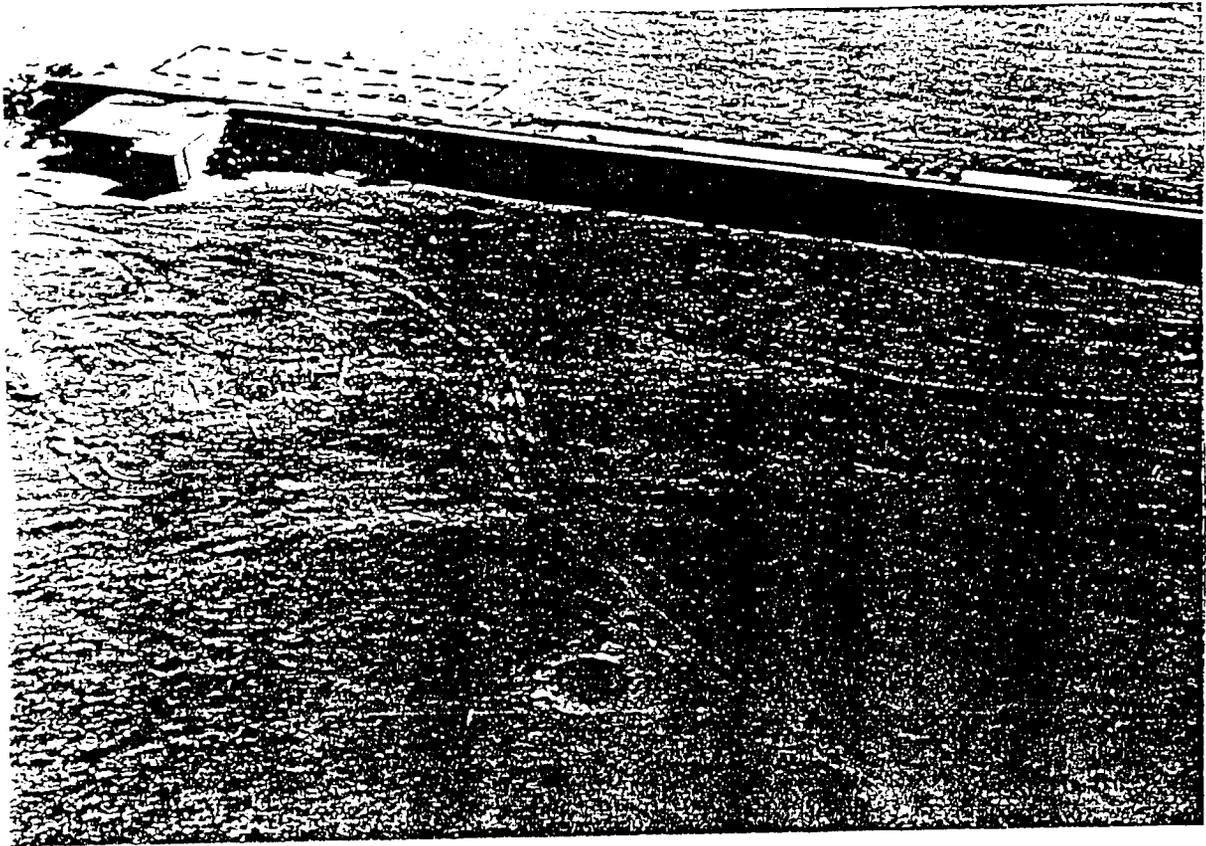
  
\_\_\_\_\_  
Co-operator  
Thomas M. Anderson, President  
Westinghouse Hanford Company

10-30-92  
Date

# Hanford Patrol Academy Demolition Sites



## HANFORD PATROL ACADEMY DEMOLITION SITES



46°22'00"  
119°21'00"

90072312-79CN  
(PHOTO TAKEN 1990)

**CORRESPONDENCE DISTRIBUTION COVERSHEET**

Author J. D. Bauer/RL R. E. Lerch/WHC D. G. Saueressig, WHC	Addressee Mr. D. B. Jansen, Ecology	Correspondence No. Incoming: 9208796 XREF:9258185D
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Subject: HANFORD PATROL ACADEMY DEMOLITION SITES DANGEROUS WASTE PART A PERMIT APPLICATION FORM 3, REVISION 3 (WA7890008967) (TSD: T-11-1)

**INTERNAL DISTRIBUTION**

Approval	Date	Name	Location	w/att
		Correspondence Control	A3-01	
		R. C. Bowman	H6-24	
		H. C. Boynton	N3-11	
		B. W. Cameron	G5-50	
		G. D. Carpenter	H6-20	
		S. B. Clifford	H6-23	
		B. G. Erlandson	H6-21	
		W. H. Hamilton Jr.	N3-10	
		G. W. Jackson, (Assignee)	H6-20	
		R. J. Landon	H6-22	
		P. J. Mackey	B3-15	
		H. E. McGuire, (Level 1)	B3-63	
		R. D. Pierce	N3-13	
		S. M. Price	H6-23	
		R. J. Roberts	N3-13	
		M. R. Romsos	N3-11	
		F. A. Ruck III	H6-23	
		D. G. Saueressig	H6-24	
		W. A. Skelly	H6-03	
		J. W. Williams Jr.	H6-24	
		EDMC	H6-08	
		DGS:File/LB	H6-24	

NOTE: Attachments same as WHC Letter No. 9258185D