



0057043

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

02-RCA-0220

MAR 25 2002

Ms. L. E. Ruud, Permit Specialist
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

RECEIVED
APR 30 2002

EDMC

Dear Ms. Ruud:

DANGEROUS WASTE PERMIT APPLICATION PART A, FORM 3, REVISION 4 FOR THE 600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY (PSTF)

The U.S. Department of Energy, Richland Operations Office (RL) manages purgewater that contains constituents at levels above the collection criteria at PSTF, in accordance with the "Strategy for Handling and Disposing of Purgewater at the Hanford Site, Washington." In evaluating the groundwater monitoring results for Calendar Year 2001, it was discovered that the chromium concentrations for well 199-D5-39 exceeded the Toxicity Characteristic Leaching Procedure limit for dangerous waste designation. The total chromium results from 199-D5-39 were 5.69 mg/L in November 2001, which exceeds the 5.0 mg/L limit requiring designation. The purgewater generated from sampling this groundwater well is managed at the PSTF

The current Part A, Form 3 for the PSTF does not include the D007 waste code for chromium as one of the wastes to be managed at the unit. Based on the discovery that some of the wastes managed in the PSTF included chromium at a level that causes the wastes to designate as dangerous waste, RL and its contractor, Bechtel Hanford, Inc., have revised the Part A, Form 3 to include the D007 waste code number. The revised Part A, Form 3, is enclosed.

In accordance with BHI-01176, "Waste Analysis Plan for the Purgewater Storage and Treatment Facility," Revision 1, dated November 2001, shipments of waste from the 199-D5-39 well have ceased until 60 days after issuance of the PSTF Part A to Ecology, unless prior approval is received from Ecology. Additionally, the waste acceptance documentation will be modified to reflect the new classification.

Ms. L. E. Ruud
02-RCA-0220

-2-

MAR 25 2002

If you have any questions regarding this revision, please contact Clifford E. Clark, of my staff, on (509) 376-9333.

Sincerely,



Joel Hebdon, Director
Regulatory Compliance and Analysis Division

RCA:CEC

Enclosure:
Dangerous Waste Permit Application
Part A, Form 3, Revision 4 for the
600 Area PSTF

cc w/encl:
Environmental Portal, LMSI
Administrative Record
R. Gay, CTUIR
R. Jim, YN
R. J. Landon, BHI
V. Peery, Librarian, Ecology
F. A. Ruck, FHI
L. E. Ruud, Ecology
P. Sobotta, NPT

cc w/o encl:
D. A. Faulk, EPA

FORM 3	DANGEROUS WASTE PERMIT APPLICATION	I. EPA/State I.D. No. <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		
Application Approved	Date Received (month/day/year)	Comments

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.) <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>03</td><td>22</td><td>1943</td></tr> </table> <p style="text-align:center;">* For existing facilities, provide the date (mo/day/yr) operation began or the date construction commenced. (Use the boxes to the left.)</p>	MO	DAY	YR	03	22	1943	<input type="checkbox"/> 2. New Facility (Complete item below) <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> <p style="text-align:center;">For new facilities, provide the date (mo/day/yr) operation began or is expected to begin.</p>	MO	DAY	YR			
MO	DAY	YR											
03	22	1943											
MO	DAY	YR											

* The date construction of the Hanford Facility commenced

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
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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.

- Amount - Enter the amount.
- 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	PROCESS CODE	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
STORAGE:		
Container (barrel, drum, etc.)	S01	Gallons or liters
Tank	S02	Gallons or liters
Waste pile	S03	Cubic yards or cubic meters
Surface impoundment	S04	Gallons or liters
Containment building storage**	S06	Cubic yards or cubic meters**
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
TREATMENT:		
Tank	T01	Gallons per day or liters per day
Surface impoundment	T02	Gallons per day or liters per day
Incinerator	T03	Tons per hour or metric tons per hour; gallons per hour or liters per hour
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

Units of Measure	Unit of Measure Code	Units of Measure	Unit of Measure Code	Units 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	L	Gallons Per Hour	E	Hectares	Q
Gallons Per Day	U	Liters Per Hour	U		

ECY 030-31 Form 3 (Rev. 7/97)
**Add per request of Washington State Department of Ecology (01/2001)

III. PROCESSES – CODES AND DESIGN CAPACITIES (continued)

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 No.	A. Process Code (from list above)			B. Process Design Capacity			For Official Use Only			
				1. Amount (specify)		2. Unit of Measure (enter code)				
X-1	S	0	2	600		G				
X-2	T	0	3	20		E				
1	S	9	9	3,785,400		L				
2	T	0	4	8,830		V				
3										
4										
5										
6										
7										
8										
9										
10										

C. Space for additional process codes or for describing other process (code "T04"). For each process entered here include design capacity.

S99

Process Code S99 (referenced in 40 CFR 265, Appendix I, Table 2) is being used to identify the storage activity in the 600 Area Purgewater Storage and Treatment Facility. The facility is permitted per WAC 173-303-400 Interim Status Facility Standards as a chemical, physical, and biological treatment unit per Subpart Q of 40 CFR Part 265 Interim Status Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities.

The 600 Area Purgewater Storage and Treatment Facility consists of two above-ground modular containment units. One unit is in use. The process design for storage in this single unit is 3,785,400 liters. The second unit has never been used.

T04

Solar evaporation. Approximately 8,800 liters per day can be treated by solar evaporation in the single modular containment unit. This estimate is based on evaporation rates calculated for the Hanford Facility.

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 describe the characteristics and/or the toxic contaminants of those dangerous wastes.

B. Estimated Annual Quantity - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.

C. Unit of Measure - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE		CODE	METRIC UNIT OF MEASURE		CODE
Pounds		P	Kilograms		K
Tons		T	Metric Tons		M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

D. Processes

1. Process Codes:

For listed dangerous waste: For each listed dangerous waste entered in column A select the code(s) from the list of process codes contained in Section III to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed dangerous wastes: For each characteristic or toxic contaminant entered in Column A, select the code(s) from the list of process codes contained in Section III to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed dangerous wastes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes. If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. Process Description: If a code is not listed for a process that will be used, describe the process in the space provided on the form.

NOTE: DANGEROUS WASTES DESCRIBED BY MORE THAN ONE DANGEROUS WASTE NUMBER - Dangerous wastes that can be described by more than one Waste Number shall be described on the form as follows:

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

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

Line 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	T03	D80					
X-2	D	0	0	2	400		P	T03	D80					
X-3	D	0	0	1	100		P	T03	D80					
X-4	D	0	0	2				T03	D80					included with above

VIII. FACILITY OWNER

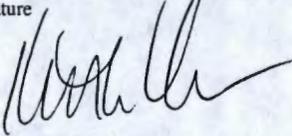
A. If the facility owner is also the facility operator as listed in Section VII on Form 1, "General Information", place an "X" in the box to the left and skip to Section IX below.

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 Number (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)	Signature	Date Signed
Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office		3/25/02

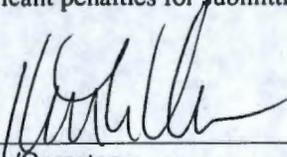
X. OPERATOR CERTIFICATION

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

Name (print or type)	Signature	Date Signed
SEE ATTACHMENT		

X. OPERATOR CERTIFICATION

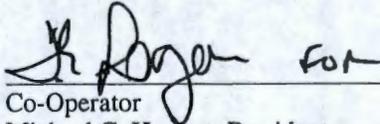
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true,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



Owner/Operator
Keith A. Klein, Manager
U.S. Department of Energy
Richland Operations Office

3/25/02

Date

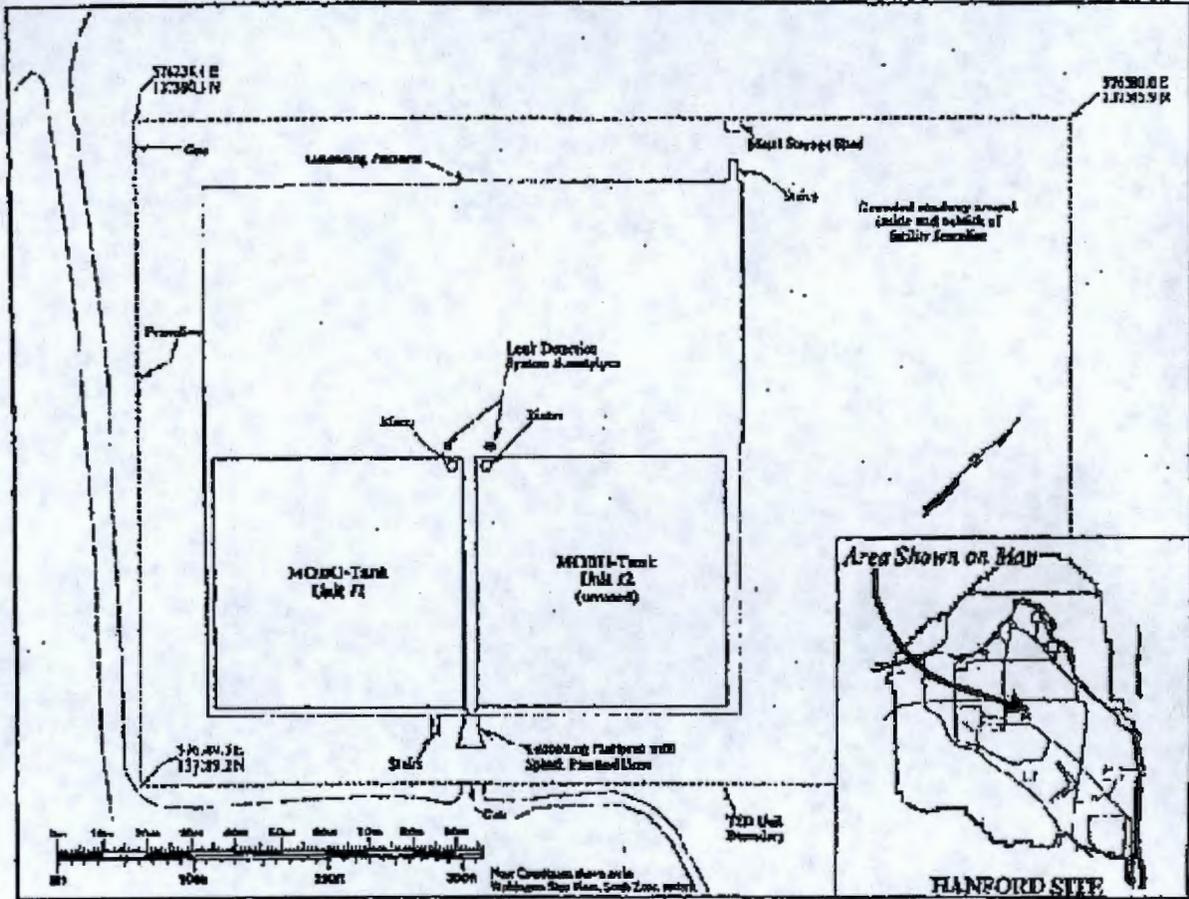


Co-Operator
Michael C. Hughes, President
Bechtel Hanford, Inc.

2/12/02

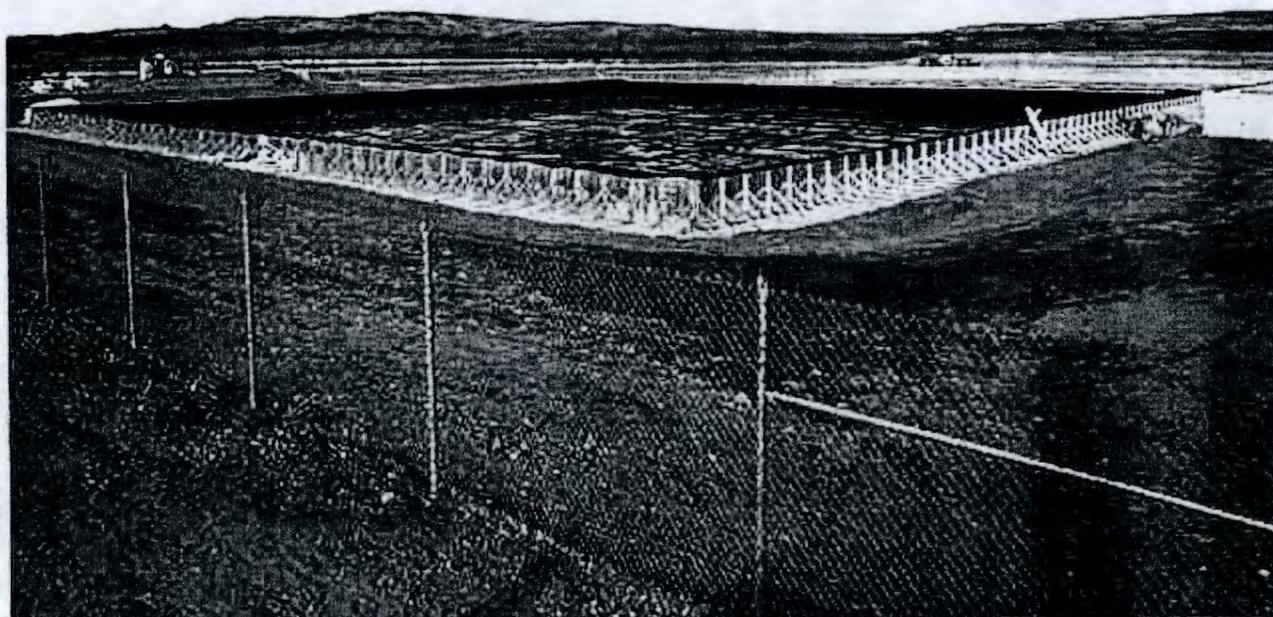
Date

600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY SITE PLAN



siteplan

600 AREA PURGEWATER STORAGE AND TREATMENT FACILITY



46°45'33"
119°45'33"

89122121-3CN
(PHOTO TAKEN 1989)