

		WASHINGTON STATE DEPARTMENT OF E C O L O G Y	Dangerous Waste Permit Application Part A Form									
Date Received		Reviewed by: <i>[Signature]</i>	Date:	0 9 2 2 2 0 0 8								
Month	Day	Year	Approved by: <i>[Signature]</i>	Date:	0 9 2 2 2 0 0 8							
0	9	1	9	2	0	0	8					
I. This form is submitted to: (place an "X" in the appropriate box)												
<input checked="" type="checkbox"/>		Request modification to a final status permit (commonly called a "Part B" permit)										
<input type="checkbox"/>		Request a change under interim status										
<input type="checkbox"/>		Apply for a final status permit. This includes the application for the initial final status permit for a site or for a permit renewal (i.e., a new permit to replace an expiring permit).										
<input type="checkbox"/>		Establish interim status because of the wastes newly regulated on:					(Date)					
List waste codes:												
II. EPA/State ID Number												
W	A	7	8	9	0	0	0	8	9	6	7	
III. Name of Facility												
US Department of Energy - Hanford Facility												
IV. Facility Location (Physical address not P.O. Box or Route Number)												
A. Street												
825 Jadwin												
City or Town						State	ZIP Code					
Richland						WA	99352					
County Code (if known)		County Name										
0 0 5		Benton										
B. Land Type	C. Geographic Location				D. Facility Existence Date							
	Latitude (degrees, mins, secs)		Longitude (degrees, mins, secs)		Month	Day	Year					
F	Refer to TOPO Map (Section XV.)				0	3	0	2	1	9	4	3
V. Facility Mailing Address												
Street or P.O. Box												
P.O. Box 550												
City or Town						State	ZIP Code					
Richland						WA	99352					

VI. Facility contact (Person to be contacted regarding waste activities at facility)										
Name (last)					(first)					
Brockman					David					
Job Title					Phone Number (area code and number)					
Manager					(509) 376-7395					
Contact Address										
Street or P.O. Box										
P.O. Box 550										
City or Town					State		ZIP Code			
Richland					WA		99352			
VII. Facility Operator Information										
A. Name								Phone Number		
Department of Energy Owner/Operator CH2M HILL Plateau Remediation Company Co-Operator for Integrated Disposal Facility*								(509) 376-7395 (509) 376-0556*		
Street or P.O. Box										
P.O. Box 550 P.O. Box 1600 *										
City or Town					State		ZIP Code			
Richland					WA		99352			
B. Operator Type		F								
C. Does the name in VII.A reflect a proposed change in operator?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, provide the scheduled date for the change:								Co-Operator* change		
			Month		Day		Year			
			1 0		0 1		2 0 0 8			
D. Is the name listed in VII.A. also the owner? If yes, skip to Section VIII.C.								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
VIII. Facility Owner Information										
A. Name								Phone Number (area code and number)		
David A. Brockman, Operator/Facility-Property Owner								(509) 376-7395		
Street or P.O. Box										
P.O. Box 550										
City or Town					State		ZIP Code			
Richland					WA		99352			
B. Owner Type		F								
C. Does the name in VIII.A reflect a proposed change in owner?								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If yes, provide the scheduled date for the change:										
			Month		Day		Year			
IX. NAICS Codes (5/6 digit codes)										
A. First					B. Second					
5 6 2 2 1 Waste Treatment & Disposal					9 2 4 1 1 0 Administration of Air & Water Resource & Solid Waste Management Programs					
C. Third					D. Fourth					
5 4 1 7 1 Research & Development in the Physical, Engineering, & Life Sciences										

X. Other Environmental Permits (see instructions)															
A. Permit Type			B. Permit Number										C. Description		

XI. Nature of Business (provide a brief description that includes both dangerous waste and non-dangerous waste areas and activities)

The Integrated Disposal Facility (IDF) is an expandable lined landfill located in the 200 East Area of the Hanford Facility. The landfill is divided lengthwise into distinct east and west cells, one for disposal of low-level radioactive waste (the east cell) and the other for disposal of mixed waste (the west cell). The cell for disposal of low-level radioactive waste is outside the scope of this permit.

Mixed waste disposed at the IDF is currently limited to vitrified low-activity waste (LAW) from the Waste Treatment Plant (WTP) and Demonstration Bulk Vitrification System (DBVS). Additionally, mixed waste generated by IDF operations will be disposed of in IDF. (The IDF Permit requires modification if other waste streams are proposed for disposal.) The vitrified waste form generated by both the WTP and the DBVS facilities is known as Immobilized Low Activity Waste (ILAW) . The amount shown in Section XII of 8.2-hectare meters (82,000 cubic meters) is the waste capacity of the initial construction. The amount will be revised as required for future expansion to accommodate the entire waste volume through an approved permit modification.

D80

Mixed radioactive high level wastes stored in the Double-Shell and Single-Shell Tank System carry the characteristic dangerous waste numbers D002, and D004 through D011 . The specified technology based treatment standard for high-level radioactive waste as described in 40 CFR 268.40 (vitrification) will be used to produce the waste form that will be placed in steel canisters or steel boxes. Tank waste will meet this vitrification standard as the waste exits at the Waste Treatment Plant or Demonstration Bulk Vitrification System Facility. (Permit conditions for the WTP and DBVS require that the D001 and D003 waste codes be removed prior to the waste stream entering these facilities.)

IDF operational activities (including decontamination, cleanup, and maintenance) will generate a small amount of waste. Waste that can meet IDF waste acceptance without treatment will be buried at the IDF. All other IDF operational waste will be managed pursuant to WAC 173-303-200 and either sent to a 90-day accumulation area or directly to another permitted TSD for treatment. Treated IDF operational waste will either be buried at IDF or sent to another permitted Hanford TSD for final disposition.

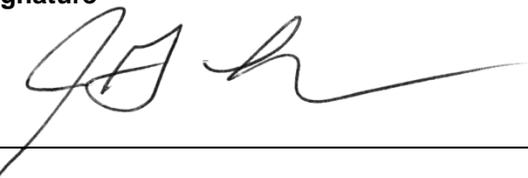
S01

Process Code S01 (container storage) has been included within this Part A Form in the event that storage is required before final disposal (e.g., to support the staging and confirmation process of the waste or cooling of vitrified waste if required).

EXAMPLE FOR COMPLETING ITEMS XII and XIII (shown in lines numbered X-1, X-2, and X-3 below): A facility has two storage tanks that hold 1200 gallons and 400 gallons respectively. There is also treatment in tanks at 20 gallons/hr. Finally, a one-quarter acre area that is two meters deep will undergo *in situ vitrification*.

Section XII. Process Codes and Design Capacities							Section XIII. Other Process Codes							
Line Number	A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	Line Number	A. Process Codes (enter code)			B. Process Design Capacity		C. Process Total Number of Units	D. Process Description
	1. Amount	2. Unit of Measure (enter code)		1. Amount	2. Unit of Measure (enter code)			1. Amount	2. Unit of Measure (enter code)					
X 1	S	0	2	1,600	G	002	X 1	T	0	4	700	C	001	In situ vitrification
X 2	T	0	3	20	E	001								
X 3	T	0	4	700	C	001								
1 1	D	8	0	8.2	F	1	1							
1 2	S	0	1	*	*	1	2							
1 3							3							
1 4							4							
1 5							5							
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2 0							1 0							
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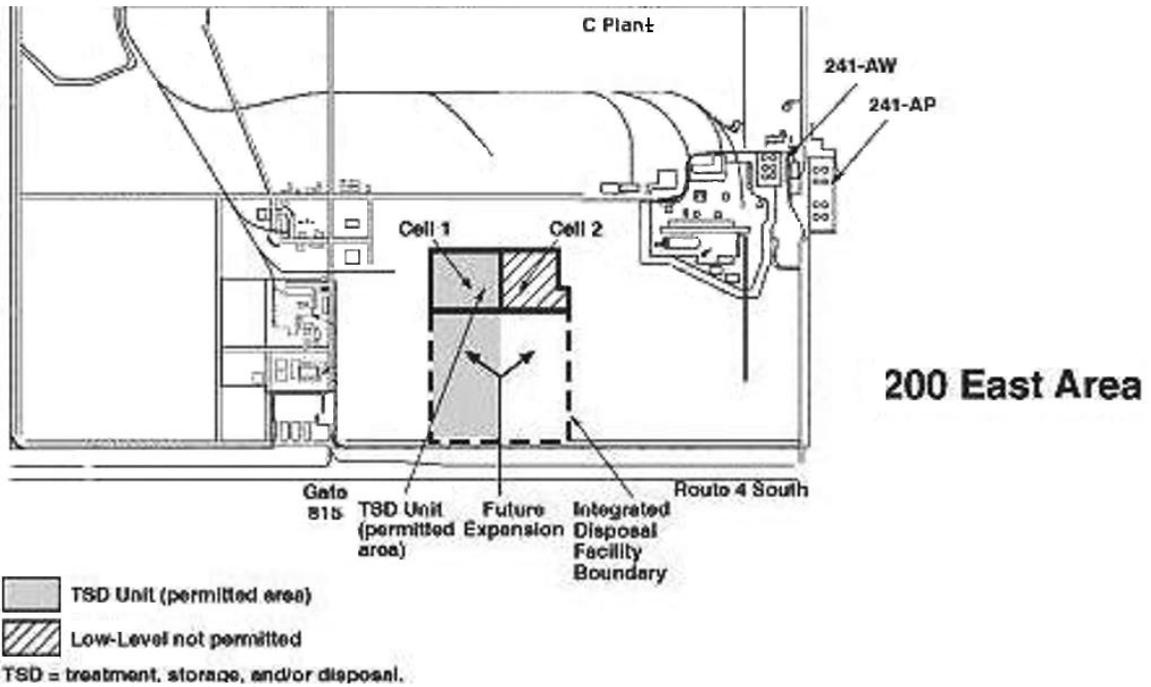
<p>XV. Map</p> <p>Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, storage, recycling, or disposal units; and each well where fluids are injected underground. Include all springs, rivers, and other surface water bodies in this map area, plus drinking water wells listed in public records or otherwise known to the applicant within ¼ mile of the facility property boundary. The instructions provide additional information on meeting these requirements.</p>
<p>Topographic map is located in the Ecology Library</p>
<p>XVI. Facility Drawing</p> <p>All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).</p>
<p>XVII. Photographs</p> <p>All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment, recycling, and disposal areas; and sites of future storage, treatment, recycling, or disposal areas (refer to Instructions for more detail).</p>

<p>XVIII. Certifications</p> <p>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</p>		
<p>Operator Name and Official Title (type or print) David A. Brockman, Manager U.S. Department of Energy Richland Operations Office</p>	<p>Signature </p>	<p>Date Signed 9/19/08</p>
<p>Co-Operator* Name and Official Title (type or print) John G. Lehew, III President and Chief Executive Officer CH2M HILL Plateau Remediation Company</p>	<p>Signature </p>	<p>Date Signed 9/2/08</p>
<p>Co-Operator – Address and Telephone Number* P.O. Box 1600 Richland, WA 99352 (509) 376-0556</p>		
<p>Facility-Property Owner Name and Official Title (type or print) David A. Brockman, Manager U.S. Department of Energy Richland Operations Office</p>	<p>Signature </p>	<p>Date Signed 9/19/08</p>

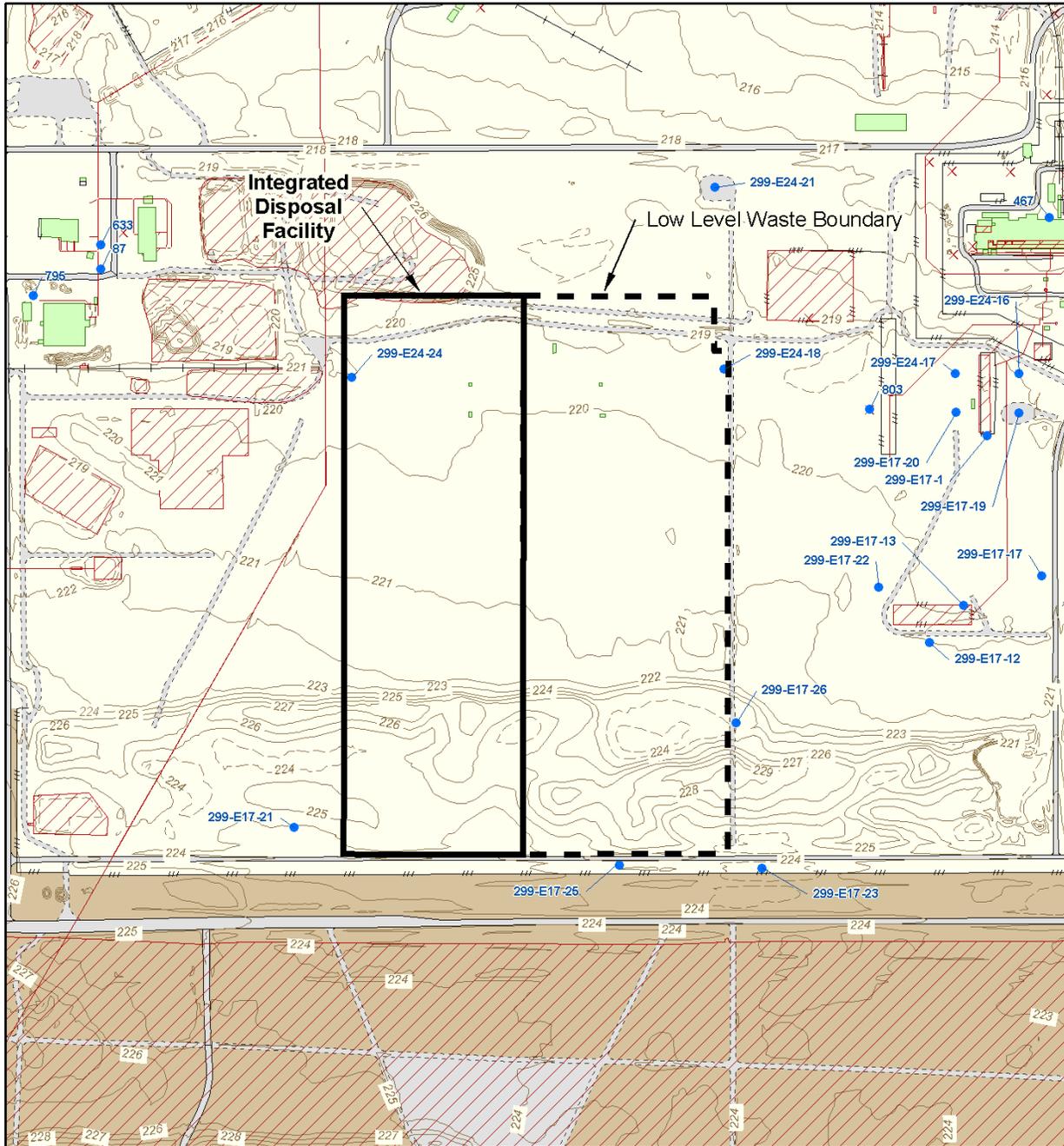
Comments

In Section VII. Facility Operator Information, there is no change to DOE as the Facility Owner/Operator; only a change in Co-Operator*. The change in Co-Operator* will be effective October 1, 2008.

1 Integrated Disposal Facility
2



IDF 200 East Area Locational References



Integrated Disposal Facility

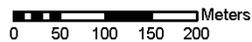
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Hanford Site



Unit
Location

- | | |
|--|---------------|
| TSD Boundary | Buildings |
| DOE Operating Areas | Structures |
| Hanford Facility | Concrete |
| Injection and Withdrawal Wells | Major Roads |
| Contours at 1 Meter Intervals | Service Roads |
| Depression Contours at 1 Meter Intervals | Railroads |
| SWMUs and Known Releases | Fences |
| Linear SWMUs and Known Releases | |
| Spot SWMUs and Known Releases | |



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5

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