



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

17-AMRP-0252

SEP 11 2017

Ms. Alexandra K. Smith, Program Manager  
Nuclear Waste Program  
Washington State Department of Ecology  
3100 Port of Benton Boulevard  
Richland, Washington 99354

Dear Ms. Smith:

REVISED PART A APPLICATION DOCUMENTATION FOR 207-A SOUTH RETENTION BASIN

The Permittees have completed closure activities for the 207-A South Retention Basins (Closure Unit Group #5). The Washington State Department of Ecology accepted the clean closure certification on May 18, 2017, (17-NWP-057). Attached is revised Part A application documentation indicating the unit has been closed.

A Class 1 permit modification is being processed under separate cover to retire the unit group from the permit. The Class 1 modification is being tracked under permit change notice PCN-207A-2017-01.

If you have any questions, please contact me, or your staff may contact Joe Franco, Assistant Manager for the River and Plateau on (509) 373-9971.

Sincerely,



Doug S. Shoop  
Manager

AMRP:ACM

Attachment

cc: See page 2

Ms. Alexandra K. Smith  
17-AMRP-0252

-2-

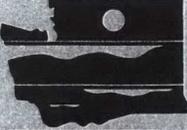
SEP 11 2017

cc w/attach:

J. L. Cantu, Ecology  
Administrative Record, TSD: S-2-7  
Ecology NWP Library  
Environmental Portal  
HF Operating Record (J. K. Perry, MSA, A3-01)

cc w/o attach:

D. J. Alexander, Ecology  
R. E. Bullock, CHPRC  
A. S. Carlson, Ecology  
L. J. Cusack, CHPRC  
S. L. Dahl-Crumpler, Ecology  
M. E. Jones, Ecology  
P. W. Martin, CHPRC  
N. M. Menard, Ecology  
D. G. Singleton, CHPRC  
E. R. Skinnerland, Ecology  
M. B. Wilson, MSA

		WASHINGTON STATE DEPARTMENT OF <b>E C O L O G Y</b>		<b>Dangerous Waste Permit Application Part A Form</b>		
Date Received		Reviewed by:		Date:		
Month	Day	Year				
			Approved by:		Date:	
<b>I. This form is submitted to: (place an "X" in the appropriate box)    CLOSED, May 18, 2017 (17-NWP-057)</b>						
<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:						
<b>II. EPA/State ID Number</b>						
W	A	7	8	9	0	
0	0	0	8	9	6	
					7	
<b>III. Name of Facility</b>						
US Department of Energy - Hanford Facility						
<b>IV. Facility Location (Physical address not P.O. Box or Route Number)</b>						
<b>A. Street</b>						
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.)			1	1	1
				9	9	8
						0
<b>V. Facility Mailing Address</b>						
<b>Street or P.O. Box</b>						
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)						
Charboneau						Stacy						
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									(509) 376-7395			
Street or P.O. Box												
P.O. Box 550												
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:						Month		Day		Year		
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)						
Department of Energy, 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 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:						Month		Day		Year		
IX. NAICS Codes (5/6 digit codes)												
A. First						B. Second						
5	6	2	2	1	1	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
C. Third						D. Fourth						
5	4	1	7	1	2							Research & Development in the Physical, Engineering, & Life Sciences

X. Other Environmental Permits (see instructions)												
A. Permit Type			B. Permit Number							C. Description		
												None

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

The 207-A South Retention Basin (SRB), also known as the Process Condensate (PC) Basins 1, 2, and 3 (i.e., PC-1, PC-2, and PC-3), began operation in March 1977. The 207-A SRB consists of three concrete cells (S04), each with a 264,979 liters (L) (70,000 gal) design capacity for a total capacity of 794,937 L (210,000 gal). All three cells were coated to prevent constituents from penetrating the concrete. The 207-A SRB was used for interim storage of the 242-A Evaporator PC to allow for sampling and analysis before the condensate was discharged to the 216-A-37-1 Crib for final disposition. Discharge of 242-A Evaporator PC to the 207-A SRB was terminated on April 12, 1989, when it was determined that the 242-A Evaporator PC contained mixed waste regulated under WAC 173-303, "Dangerous Waste Regulations." The 207-A SRB no longer receives or stores mixed waste. The Treatment, Storage, and/or Disposal unit boundary was established as the exterior wall of the concrete basin structure.

The 242-A Evaporator PC is regulated as mixed waste because it is derived from a waste containing spent halogenated and nonhalogenated solvents (F001, F002, F003, F004, and F005), and for the toxicity of ammonia (WT02, state only toxic dangerous waste). The estimated total quantity of dangerous waste received by the 207-A SRB was 377,000,000 L (99,590,000 gal). The PC had a specific gravity of 1.0.

This unit was Clean Closed. Permit requirements were retired via a Class 1 modification (Rev 8c), quarter ending 9/30/17.

**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	2	3	1. Amount	2. Unit of Measure (enter code)			1	2	3	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	S	0	4	794,937	L	003	1							
2							2							
3							3							
4							4							
5							5							
6							6							
7							7							
8							8							
9							9							
1 0							1 0							
1 1							1 1							
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2 0							2 0							
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2 3							2 3							
2 4							2 4							
2 5							2 5							

**XIV. Description of Dangerous Wastes**

**Example for completing this section:** A facility will receive three non-listed wastes, then store and treat them on-site. Two wastes are corrosive only, with the facility receiving and storing the wastes in containers. There will be about 200 pounds per year of each of these two wastes, which will be neutralized in a tank. The other waste is corrosive and ignitable and will be neutralized then blended into hazardous waste fuel. There will be about 100 pounds per year of that waste, which will be received in bulk and put into tanks.

Line Number	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	D	0	0	2	400	P	S	0	1	T	0	1								
X 2	D	0	0	1	100	P	S	0	2	T	0	1								
X 3	D	0	0	2																Included with above
	1	F	0	0	1	31,200,000	L	S	0	4										
	2	F	0	0	2		L	S	0	4										
	3	F	0	0	3		L	S	0	4										
	4	F	0	0	4		L	S	0	4										
	5	F	0	0	5		L	S	0	4										
	6	W	T	0	2		L	S	0	4										
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**XV. Map**  
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.

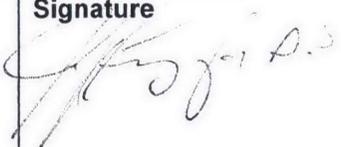
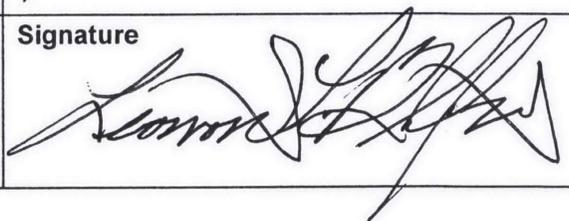
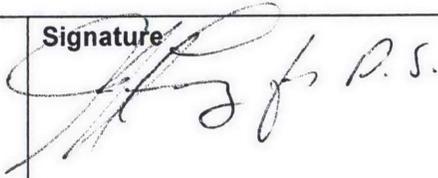
Topographic map is located in the Ecology Library

**XVI. Facility Drawing**  
All existing facilities must include a scale drawing of the facility (refer to Instructions for more detail).

**XVII. Photographs**  
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).

**XVIII. Certifications**

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><b>Operator</b> Name and Official Title (type or print) Douglas S. Shoop, Manager U.S. Department of Energy Richland Operations Office</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 9/11/17</p>
<p><b>Co-Operator</b> Name and Official Title (type or print) Leonard T. Blackford President and Chief Executive Officer CH2M HILL Plateau Remediation Company</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 8/30/17</p>
<p><b>Co-Operator – Address and Telephone Number</b> P.O. Box 1600 Richland, WA 99352 (509) 376-0556</p>		
<p><b>Facility-Property Owner</b> Name and Official Title (type or print) Douglas S. Shoop, Manager U.S. Department of Energy Richland Operations Office</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 9/11/17</p>

**Comments**

In Section XIV.B., the total volume of waste for the 242-A Evaporator PC (inclusive of all waste codes), which was temporarily stored at the 207-A SRB, was 377,000,000 L (99,590,000 gal). The specific gravity of the waste was 1.0. The 207-A SRB received waste from March 1977 through April 1989, a duration of 12.084 years. The waste volume listed is the total amount stored by the 207-A SRB divided by the number of years that the 207-A SRB operated. The presumption is that the same amount of waste was stored temporarily at the 207-A SRB for each year of operation.

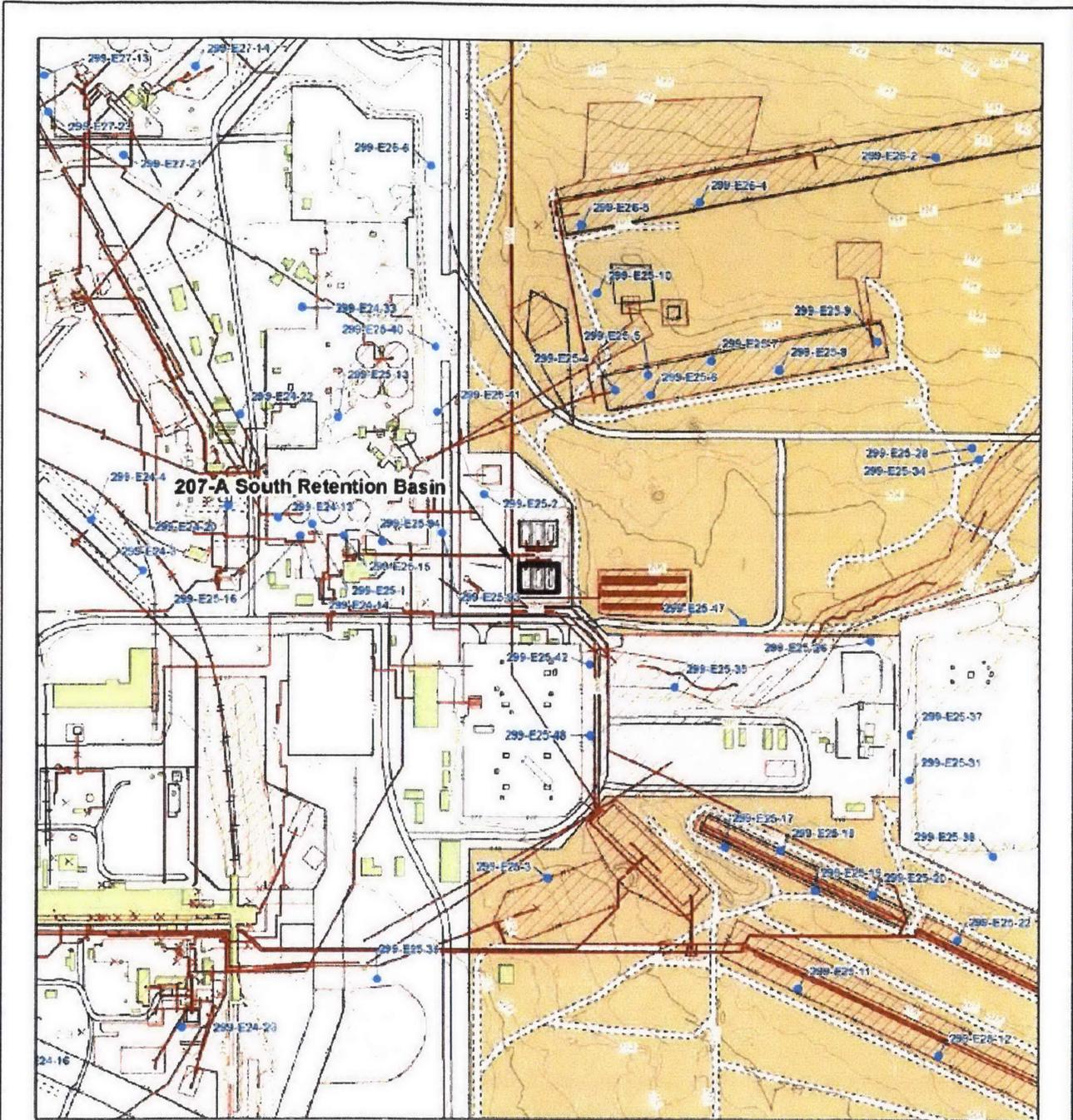
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207-A South Retention Basin (200 East Area)

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(July 2015 Photo)



### 207-A South Retention Basin

Prepared for:  
US DEPARTMENT OF ENERGY  
RICHLAND OPERATIONS OFFICE  
Created and Published by:  
Central Mapping Services  
Fluor Hanford, Richland, WA  
(509) 373-9076  
Intended Use: REFERENCE ONLY  
Topographic Data  
1996, Bechtel Hanford, Inc

### Hanford Site



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



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