CHAPTER 1
PART A FORM

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WASHINGTON STATE DEPARTMENT OF ECOLOGY

Dangerous Waste Permit Application Part A Form

Date Received	Reviewed by:	Date:
Month Day Year	Approved by:	Date:
01 28 2016		02 09 2016 / 02 29 2016

I. This form is submitted to: (place an "X" in the appropriate box)

- [X] Request modification to a final status permit (commonly called a "Part B" permit)
- [ ] Request a change under interim status
- [ ] 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).
- [ ] Establish interim status because of the wastes newly regulated on: (Date)

List waste codes:

II. EPA/State ID Number

WA 7890008967

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
005	Benton

B. Land Type	C. Geographic Location: Latitude (degrees, mins, secs)	Longitude (degrees, mins, secs)	D. Facility Existence Date: Month Day Year
F	Refer to TOPO Map (Section XV.)		11 01 1980

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)**	
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?	☐ Yes ☒ 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.	☐ Yes ☒ 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?	☐ Yes ☒ 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	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	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 Process Condensate 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 Process Condensate to the 207-A SRB was terminated on April 12, 1989, when it was determined that the 242-A Evaporator Process Condensate 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 Process Condensate is regulated as mixed waste and 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 242-A Evaporator Process Condensate which passed through the 207-A SRB was 377,000,000 L (99,590,000 gal). The 242-A Evaporator Process Condensate had a specific gravity of 1.0.

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)		
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							
1	2							1	2							
1	3							1	3							
1	4							1	4							
1	5							1	5							
1	6							1	6							
1	7							1	7							
1	8							1	8							
1	9							1	9							
2	0							2	0							
2	1							2	1							
2	2							2	2							
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							
		7																
		8																
		9																
	1	0																
	1	1																
	1	2																
	1	3																
	1	4																
	1	5																
	1	6																
	1	7																
	1	8																
	1	9																
	2	0																
	2	1																
	2	2																
	2	3																
	2	4																
	2	5																

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

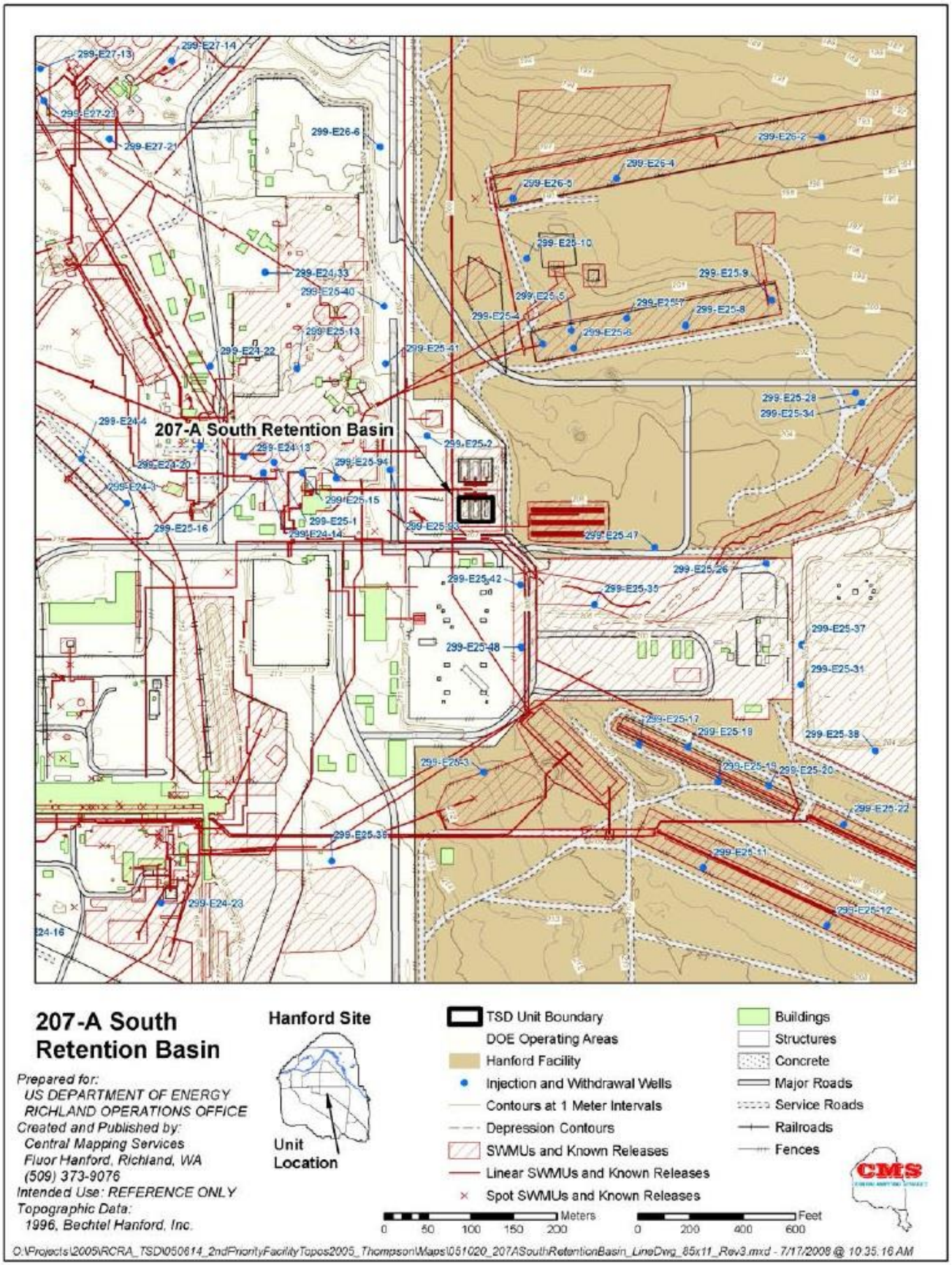
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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.

Operator Name and Official Title (type or print)	**Signature**	**Date Signed**
Stacy L. Charboneau, Manager U.S. Department of Energy Richland Operations Office	Stacy Charboneau	1/28/16
Co-Operator Name and Official Title (type or print) John A. Ciucci President and Chief Executive Officer CH2M HILL Plateau Remediation Company	**Signature** John A Ciucci	**Date Signed** 1/7/16
Co-Operator – Address and Telephone Number P.O. Box 1600 Richland, WA 99352 (509) 376-0556		
Facility-Property Owner Name and Official Title (type or print) Stacy L. Charboneau, Manager U.S. Department of Energy Richland Operations Office	**Signature** Stacy Charboneau	**Date Signed** 1/28/16

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.

207-A South Retention Basin (200 East Area)

(July 2015 Photo)


207-A South Retention Basin
299-E27-13
299-E27-14
299-E27-22
299-E27-21
299-E26-6
299-E26-2
299-E25-4
299-E26-5
299-E25-10
299-E24-33
299-E25-40
299-E25-9
299-E25-5
299-E25-7
299-E25-8
299-E25-4
299-E25-6
299-E25-13
299-E24-22
299-E25-41
299-E25-28
299-E25-34
299-E24-4
299-E24-13
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299-E25-26
299-E25-42
299-E25-35
299-E25-37
299-E25-48
299-E25-31
299-E25-17
299-E25-18
299-E25-38
299-E26-3
299-E25-19
299-E25-20
299-E25-22
299-E25-36
299-E25-11
299-E24-23
299-E25-12
24-16
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
Unit Location
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
Meters
0 50 100 150 200
Feet
0 200 400 600
CMS
O:\Projects\2005\RCRA_TSD\050614_2ndPriorityFacilityTopos2005_ThompsonMaps\051020_207ASouthRetentionBasin_LineDwg_85x11_Rev3.mxd - 7/17/2008 @ 10:35:16 AM

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