



0098067

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

11-AMRC-0188

AUG 04 2011

Ms. J. A. Hedges, Program Manager  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
3100 Port of Benton Blvd.  
Richland, Washington 99354

Dear Ms. Hedges:

**SUBMITTAL OF CLOSED PART A, FORM 3, FOR THE 331C STORAGE FACILITY**

In response to Ecology letter to M. S. McCormick, RL, from E. R. Skinnerland, "Letter (11-AMRC-0176), July 19, 2011, from Joe R. Franco, U.S. Department of Energy to Ms. Jane A. Hedges, Washington State Department of Ecology, Nuclear Waste Program Regarding Certification of Clean Closure for the 331-C Storage Facility," (11-NWP-076), dated July 22, 2011, please find the enclosed 331C Storage Facility Part A, Form 3, identified as "Closed" with a closure date of July 22, 2011. The U.S. Department of Energy Richland Operations Office requests the State of Washington Department of Ecology sign the Closed Part A, Form 3.

If you have questions, please contact me or your staff may contact R. F. Guercia of my staff on (509) 376-5494.

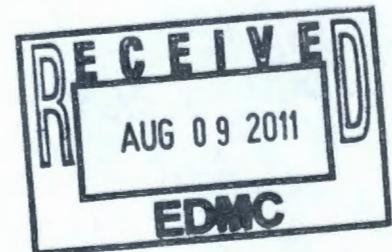
Sincerely,

Joe R. Franco, Assistant Manager  
for the River Corridor

AMRC:RFG

Enclosure

cc w/encl: (See Page 2)



Ms. J. A. Hedges  
11-AMRC-0188

-2-

AUG 04 2011

cc w/encl:

G. Bohnee, NPT

F. W. Bond, Ecology

P. E. Eberlein, Ecology

D. A. Faulk, EPA

L. E. Gadbois, EPA

R. Jim, YN

S. Harris, CTUIR

E. R. Skinnerland, Ecology

C. P. Strand, WCH

Administrative Record, H6-08 (331C Storage Facility)

Environmental Portal, A3-01

		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:	
0	4	1	1	Date: 0 3 2 5 2 0 1 1	
Closed July 22, 2011					
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)		County Name			
0 0 5		Benton			
B. Land Type	C. Geographic Location		Longitude (degrees, mins, secs)		D. Facility Existence Date
	Latitude (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

<b>VI. Facility contact (Person to be contacted regarding waste activities at facility)</b>													
<b>Name (last)</b>						<b>(first)</b>							
McCormick						Matthew							
<b>Job Title</b>						<b>Phone Number (area code and number)</b>							
Manager						(509) 376-7395							
<b>Contact Address</b>													
<b>Street or P.O. Box</b>													
P.O. Box 550													
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>					
Richland						WA		99352					
<b>VII. Facility Operator Information</b>													
<b>A. Name</b>						<b>Phone Number</b>							
Department of Energy Owner/Operator Washington Closure Hanford, Co-Operator for 331-C Storage Unit*						(509) 376-7395 (509)372-9951 *							
<b>Street or P.O. Box</b>													
P.O. Box 550 2620 Fermi Avenue*													
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>					
Richland						WA		99352					
<b>B. Operator Type</b>		F											
<b>C. Does the name in VII.A reflect a proposed change in operator?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
If yes, provide the scheduled date for the change:						<b>Month</b>		<b>Day</b>		<b>Year</b>			
<b>D. Is the name listed in VII.A, also the owner? If yes, skip to Section VIII.C.</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
<b>VIII. Facility Owner Information</b>													
<b>A. Name</b>						<b>Phone Number (area code and number)</b>							
Matthew S. McCormick, Operator/Facility-Property Owner						(509) 376-7395							
<b>Street or P.O. Box</b>													
P.O. Box 550													
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>					
Richland						WA		99352					
<b>B. Owner Type</b>		F											
<b>C. Does the name in VIII.A reflect a proposed change in owner?</b>						<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No							
If yes, provide the scheduled date for the change:						<b>Month</b>		<b>Day</b>		<b>Year</b>			
<b>IX. NAICS Codes (5/6 digit codes)</b>													
<b>A. First</b>						<b>B. Second</b>							
5	6	2	2	1		Waste Treatment & Disposal	9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
<b>C. Third</b>						<b>D. Fourth</b>							
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 331-C Storage Unit was a dangerous waste storage unit located in the 300 Area. The unit was used for the collection, consolidation, packaging, storage, and, preparation for transport and disposal of dangerous waste; and was an integral part of the Pacific Northwest National Laboratories (PNNL) waste management system.

Dangerous waste was managed in segregated cells, cabinets, and other areas as described in the 331-C Storage Unit portions of the Hanford Facility Dangerous Waste Permit (WA7890008967). The waste stored at the 331-C Storage Unit consisted of listed waste, waste from nonspecific sources, characteristic waste, and state-only waste derived from research activities and facility operations.

On February 8, 2011, PNNL completed removal of waste stored at the 331-C Storage Unit. The majority of the waste stored at the 331-C Storage Unit was transferred offsite for treatment and disposal. The 331-C Storage Unit was transferred to Washington Closure Hanford (WCH) contractor (Co-Operator) in February 2011, to undergo closure. No further, waste management activities will be conducted in the facility prior to building removal and closure. The facility will be maintained under a surveillance and maintenance program prior to initiating removal actions.

The 331-C Storage Unit RCRA closure will be integrated with the 300 Area Comprehensive Environmental Response Compensation, and Liability Act (CERCLA), removal action, which will be accomplished by demolition of the building, to include the floor slab and any below-grade structures (e.g., containment sumps). The 331-C Storage Unit is scheduled for CERCLA removal in accordance with the *Removal Action Work Plan for River Corridor General Decommissioning Activities*, DOE/RL-2010-34, Rev. 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	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	1	20,000	G	001	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							











EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process										
							(1) Process Codes							(2) Process Description [If a code is not entered in D (1)]			
166	P	1	9	6	200	K	S	0	1								Includes Debris
167	P	1	9	7	200	K	S	0	1								Includes Debris
168	P	1	9	8	200	K	S	0	1								Includes Debris
169	P	1	9	9	200	K	S	0	1								Includes Debris
170	P	2	0	1	200	K	S	0	1								Includes Debris
171	P	2	0	2	200	K	S	0	1								Includes Debris
172	P	2	0	3	200	K	S	0	1								Includes Debris
173	P	2	0	4	200	K	S	0	1								Includes Debris
174	P	2	0	5	200	K	S	0	1								Includes Debris
175	U	0	0	1	200	K	S	0	1								Includes Debris
176	U	0	0	2	200	K	S	0	1								Includes Debris
177	U	0	0	3	200	K	S	0	1								Includes Debris
178	U	0	0	4	200	K	S	0	1								Includes Debris
179	U	0	0	5	200	K	S	0	1								Includes Debris
180	U	0	0	6	200	K	S	0	1								Includes Debris
181	U	0	0	7	200	K	S	0	1								Includes Debris
182	U	0	0	8	200	K	S	0	1								Includes Debris
183	U	0	0	9	200	K	S	0	1								Includes Debris
184	U	0	1	0	200	K	S	0	1								Includes Debris
185	U	0	1	1	200	K	S	0	1								Includes Debris
186	U	0	1	2	200	K	S	0	1								Includes Debris
187	U	0	1	4	200	K	S	0	1								Includes Debris
188	U	0	1	5	200	K	S	0	1								Includes Debris
189	U	0	1	6	200	K	S	0	1								Includes Debris
190	U	0	1	7	200	K	S	0	1								Includes Debris
191	U	0	1	8	200	K	S	0	1								Includes Debris
192	U	0	1	9	200	K	S	0	1								Includes Debris
193	U	0	2	0	200	K	S	0	1								Includes Debris
194	U	0	2	1	200	K	S	0	1								Includes Debris
195	U	0	2	2	200	K	S	0	1								Includes Debris
196	U	0	2	3	200	K	S	0	1								Includes Debris
197	U	0	2	4	200	K	S	0	1								Includes Debris
198	U	0	2	5	200	K	S	0	1								Includes Debris
199	U	0	2	6	200	K	S	0	1								Includes Debris
200	U	0	2	7	200	K	S	0	1								Includes Debris



EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process						(2) Process Description [If a code is not entered in D (1)]			
							(1) Process Codes									
236	U	0	6	6	200	K	S	0	1							Includes Debris
237	U	0	6	7	200	K	S	0	1							Includes Debris
238	U	0	6	8	200	K	S	0	1							Includes Debris
239	U	0	6	9	200	K	S	0	1							Includes Debris
240	U	0	7	0	200	K	S	0	1							Includes Debris
241	U	0	7	1	200	K	S	0	1							Includes Debris
242	U	0	7	2	200	K	S	0	1							Includes Debris
243	U	0	7	3	200	K	S	0	1							Includes Debris
244	U	0	7	4	200	K	S	0	1							Includes Debris
245	U	0	7	6	200	K	S	0	1							Includes Debris
246	U	0	7	7	200	K	S	0	1							Includes Debris
247	U	0	7	8	200	K	S	0	1							Includes Debris
248	U	0	7	9	200	K	S	0	1							Includes Debris
249	U	0	8	0	200	K	S	0	1							Includes Debris
250	U	0	8	1	200	K	S	0	1							Includes Debris
251	U	0	8	2	200	K	S	0	1							Includes Debris
252	U	0	8	3	200	K	S	0	1							Includes Debris
253	U	0	8	4	200	K	S	0	1							Includes Debris
254	U	0	8	5	200	K	S	0	1							Includes Debris
255	U	0	8	6	200	K	S	0	1							Includes Debris
256	U	0	8	7	200	K	S	0	1							Includes Debris
257	U	0	8	8	200	K	S	0	1							Includes Debris
258	U	0	8	9	200	K	S	0	1							Includes Debris
259	U	0	9	0	200	K	S	0	1							Includes Debris
260	U	0	9	1	200	K	S	0	1							Includes Debris
261	U	0	9	2	200	K	S	0	1							Includes Debris
262	U	0	9	3	200	K	S	0	1							Includes Debris
263	U	0	9	4	200	K	S	0	1							Includes Debris
264	U	0	9	5	200	K	S	0	1							Includes Debris
265	U	0	9	6	200	K	S	0	1							Storage-Container
266	U	0	9	7	200	K	S	0	1							Includes Debris
267	U	0	9	8	200	K	S	0	1							Includes Debris
268	U	0	9	9	200	K	S	0	1							Includes Debris
269	U	1	0	1	200	K	S	0	1							Includes Debris
270	U	1	0	2	200	K	S	0	1							Includes Debris









EPA/State ID Number	W	A	7	8	9	0	0	0	8	9	6	7
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Continuation of Section XIV. Description of Dangerous Waste

Line Number	A. Dangerous Waste No.				B. Estimated Annual Quantity of Waste	C. Unit of Measure	D. Process									
							(1) Process Codes				(2) Process Description [If a code is not entered in D (1)]					
411	U	3	7	2	200	K	S	0	1							Includes Debris
412	U	3	7	3	200	K	S	0	1							Includes Debris
413	U	3	8	7	200	K	S	0	1							Includes Debris
414	U	3	8	9	200	K	S	0	1							Includes Debris
415	U	3	9	4	200	K	S	0	1							Includes Debris
416	U	3	9	5	200	K	S	0	1							Includes Debris
417	U	4	0	4	200	K	S	0	1							Includes Debris
418	U	4	0	9	200	K	S	0	1							Includes Debris
419	U	4	1	0	200	K	S	0	1							Includes Debris
420	U	4	1	1	200	K	S	0	1							Includes Debris
421	W	P	C	B	5,000	K	S	0	1							Includes Debris
422	W	P	0	1	2,000	K	S	0	1							Includes Debris
423	W	P	0	2	2,000	K	S	0	1							Includes Debris
424	W	P	0	3	500	K	S	0	1							Includes Debris
425	W	T	0	1	20,000	K	S	0	1							Includes Debris
426	W	T	0	2	20,000	K	S	0	1							Includes Debris
427	W	S	C	2	5,000	K	S	0	1							Includes Debris
428	K	0	1	3	200	K	S	0	1							Includes Debris
429	K	0	4	4	200	K	S	0	1							Includes Debris

**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).

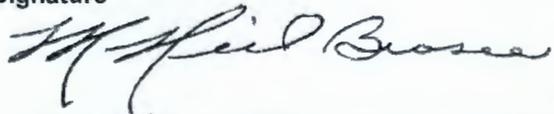
**XVII. Photographs**

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).

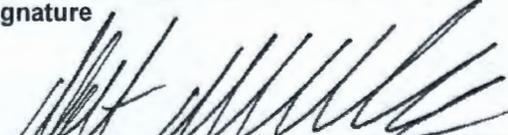
**XVIII. Certifications**

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.

<b>Operator</b> Name and Official Title (type or print) Matthew S. McCormick, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 3/9/11
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<b>Co-Operator*</b> Name and Official Title (type or print) M. N. Brosee, President Washington Closure Hanford	<b>Signature</b> 	<b>Date Signed</b> 2.28.11
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**Co-Operator\* – Address and Telephone Number**  
 2620 Fermi Avenue  
 Richland WA 99354  
 (509)372-9951

<b>Facility-Property Owner</b> Name and Official Title (type or print) Matthew S. McCormick, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 3/9/11
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**Comments**

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331-C Storage Unit

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331-C Front

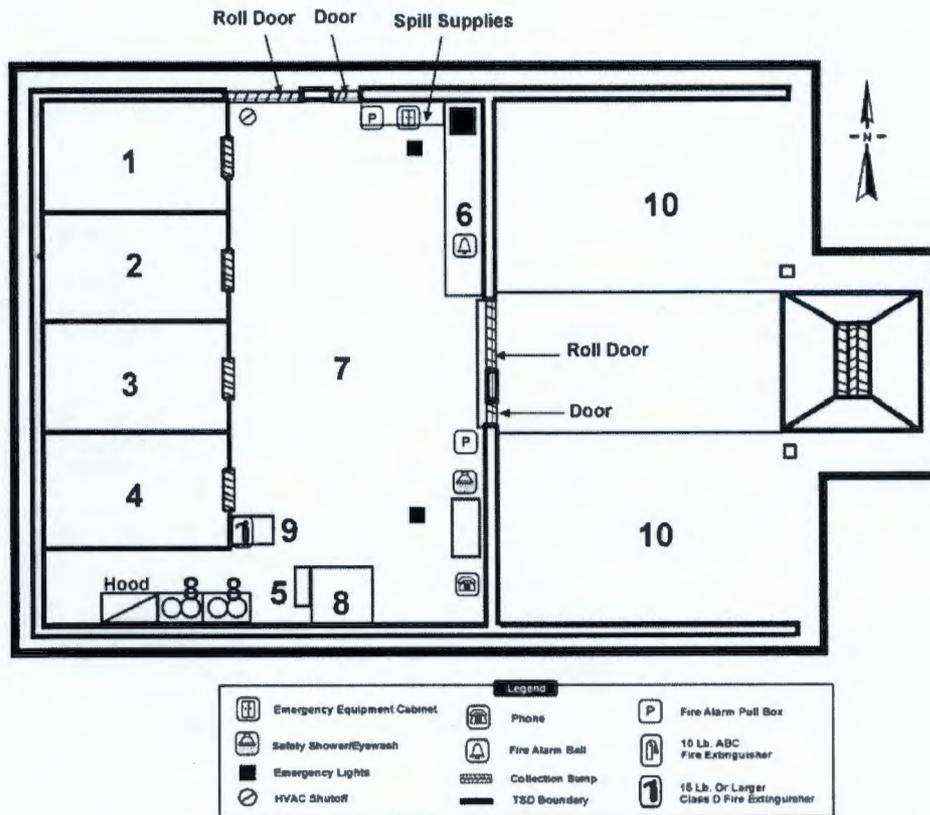
Photo Taken 1/2010



331-C Inside (following inventory removal)

Photo Taken 1/2011

331-C Storage Unit



Legend

1. Acids, Oxidizers
2. Poisons, Class 9
3. Alkaline, WSDW, Organic Peroxides
4. Organics Flammable and Compressed Aerosols
5. Compressed gases
6. Universal/Recycling Storage Area
7. Class 9, WSDW, Non-flammable and Compatible Waste
8. Flammable Storage
9. Explosive Magazine
10. Outdoor Non-regulated Drum Storage

**NOTE:** This floor plan represented the operational configuration of the facility. No dangerous waste remains within the building and most of the waste management infrastructure has been removed, to include flammable storage cabinets, explosive magazine, compressed gasses, etc.

