

1 **Chapter 1.0** **Part A**

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2 1.0 PART A FORMS ..... 1.i  
3 1324-N Surface Impoundment  
4 1324-NA Percolation Pond  
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	WASHINGTON STATE DEPARTMENT OF <b>ECOLOG Y</b>	<b>Dangerous Waste Permit Application Part A Form</b>
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Date Received	Reviewed by: <i>[Signature]</i>	Date: 0 9 2 8 2 0 0 5
Month Day Year	Approved by: <i>[Signature]</i>	Date: 1 0 3 0 2 0 0 5
0 9 0 2 2 0 0 5	<b>Please refer to instructions for completing this form.</b>	

**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
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**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	S E E T O P O M A P	0 3 2 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>						
Klein						Keith						
<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 (area code and number)</b>						
Department of Energy * Owner/Operator Washington Closure Hanford LLC** Co-Operator for 1324-N Surface Impoundment						(509) 376-7395* (509) 372-9951**						
<b>Street or P.O. Box</b>												
P.O. Box 550* 3070 George Washington Way **												
<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:						Month		Day		Year		
<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>						
Keith A. Klein, 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. 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:						Month		Day		Year		
<b>IX. NAICS Codes (5/6 digit codes)</b>												
<b>A. First</b>						<b>B. Second</b>						
5	6	2	2	1		9	2	4	1	1	0	Administration of Air & Water Resource & Solid Waste Management Programs
<b>C. Third</b>						<b>D. Fourth</b>						
9	9	9	9	9	Unclassified Establishments	5	6	2	9	1	0	Remediation Services

**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 1324-N Surface Impoundment was used to treat corrosive dangerous waste (D002) from the 163-N Demineralization Plant. The waste consisted of acidic and caustic backwashes from the regeneration of demineralizer columns. Approximately 1,500,000,000 pounds (680,338,600 kilograms) of waste were treated each year.

T02

The 1324-N Surface Impoundment is a lined pond with a treatment design capacity of 400,000 gallons (1,514,160 liters) per day. The impoundment was used to treat waste from the regeneration of demineralized columns. The waste exhibited the characteristics of corrosivity (D002). Successive additions to the pond of acidic and caustic waste served to neutralize the waste. The nonregulated neutralized waste was transferred to the 1324-N Percolation Pond. The 1324-N Surface Impoundment no longer receives waste and will be closed under final status regulations (WAC 173-303-610)..

**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	T	0	2	400,000	U	001	1	D	8	3	400,000	U	001	
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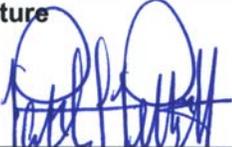


**XV. Map**  
Attach to this application a topographic map of the area extending to at least one (1) mile beyond property boundaries. The map must show the outline of the facility; the location of each of its existing and proposed intake and discharge structures; each of its dangerous waste treatment, 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.

**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) Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 9/2/05</p>
<p><b>Co-Operator**</b> Name and Official Title (type or print) Patrick L. Pettiette, President Washington Closure Hanford LLC</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 8-25-05</p>
<p><b>Co-Operator**</b> — Address and Telephone Number 3070 George Washington Way Richland, WA 99354 (509) 372-9951</p>		
<p><b>Facility-Property Owner*</b> Name and Official Title (type or print) Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office</p>	<p><b>Signature</b> </p>	<p><b>Date Signed</b> 9/2/05</p>

**Comments**

Closure activities at 1324-N were completed in January 2003, in accordance with WAC 173-303-610 and the approved Treatment, Storage, and Disposal Units Corrective Measures Study/Closure Plan (DOE/RL-96-39). A certification of closure was submitted to Ecology on February 7, 2003. The Certification of Recording and the Notice in Deed were submitted to Ecology on April 8, 2003.

A Post Closure Groundwater Monitoring Plan has been submitted to Ecology for approval. Upon approval of the Post Closure Groundwater Monitoring Plan, Ecology will proceed with the approval of the Certification of Closure documentation.

## 1324-N Surface Impoundment

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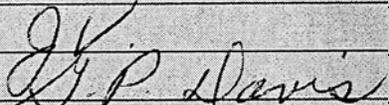
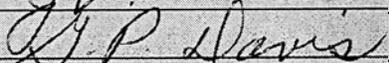


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City or Town	State	ZIP Code
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<b>A. Name</b>						<b>Phone Number (area code and number)</b>						
Department of Energy * Owner/Operator Washington Closure Hanford LLC** Co-Operator for 1324-NA Percolation Pond						(509) 376-7395* (509) 372-9951**						
<b>Street or P.O. Box</b>												
P.O. Box 550 * 3070 George Washington Way **												
<b>City or Town</b>						<b>State</b>		<b>ZIP Code</b>				
Richland						WA		99352				
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9	9	9	9	9	9	5	6	2	9	1	0	Remediation Services

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<b>A. Permit Type</b>			<b>B. Permit Number</b>										<b>C. Description</b>	
														None

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

The 1324-NA Percolation Pond received waste from the 163-N Demineralization Plant. The waste consisted of acid and caustic backwashes from the regeneration of demineralization columns. Approximately 1,500,000,000 pounds (680,338,600 kilograms) of corrosive waste (D002) were managed each year.

T04, D83

The 1324-NA Percolation Pond received corrosive dangerous waste (D002) from the regeneration of demineralizer columns in the 163-N Demineralizer Plant. Acidic and caustic waste was discharged to the pond in series, which served to neutralize the waste in the pond. Any acidic or caustic waste that reached the soil was neutralized further by the calcareous nature of the soil. Discharge of dangerous waste to this pond was discontinued in April 1986. The pond also received nonregulated neutralized waste from the 1324-N Surface Impoundment and nonregulated process and cooling water from the 163-N Plant. The process design capacity reflects the maximum volume of water discharged daily rather than the physical capacity of the unit. The 1324-NA Percolation Pond no longer receives waste and will be closed under final status regulations (WAC 173-303-610).

**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.

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X 2	T	0	3	20	E	001									
X 3	T	0	4	700	C	001									
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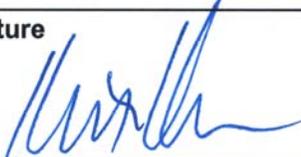


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<b>Operator*</b> Name and Official Title (type or print) Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 8/2/05
<b>Co-Operator**</b> Name and Official Title (type or print) Patrick L. Pettiette, President Washington Closure Hanford LLC	<b>Signature</b> 	<b>Date Signed</b>
<b>Co-Operator** – Address and Telephone Number</b> 3070 George Washington Way Richland, WA 99354 (509) 372-9951**		
<b>Facility-Property Owner*</b> Name and Official Title (type or print) Keith A. Klein, Manager U.S. Department of Energy Richland Operations Office	<b>Signature</b> 	<b>Date Signed</b> 8/2/05

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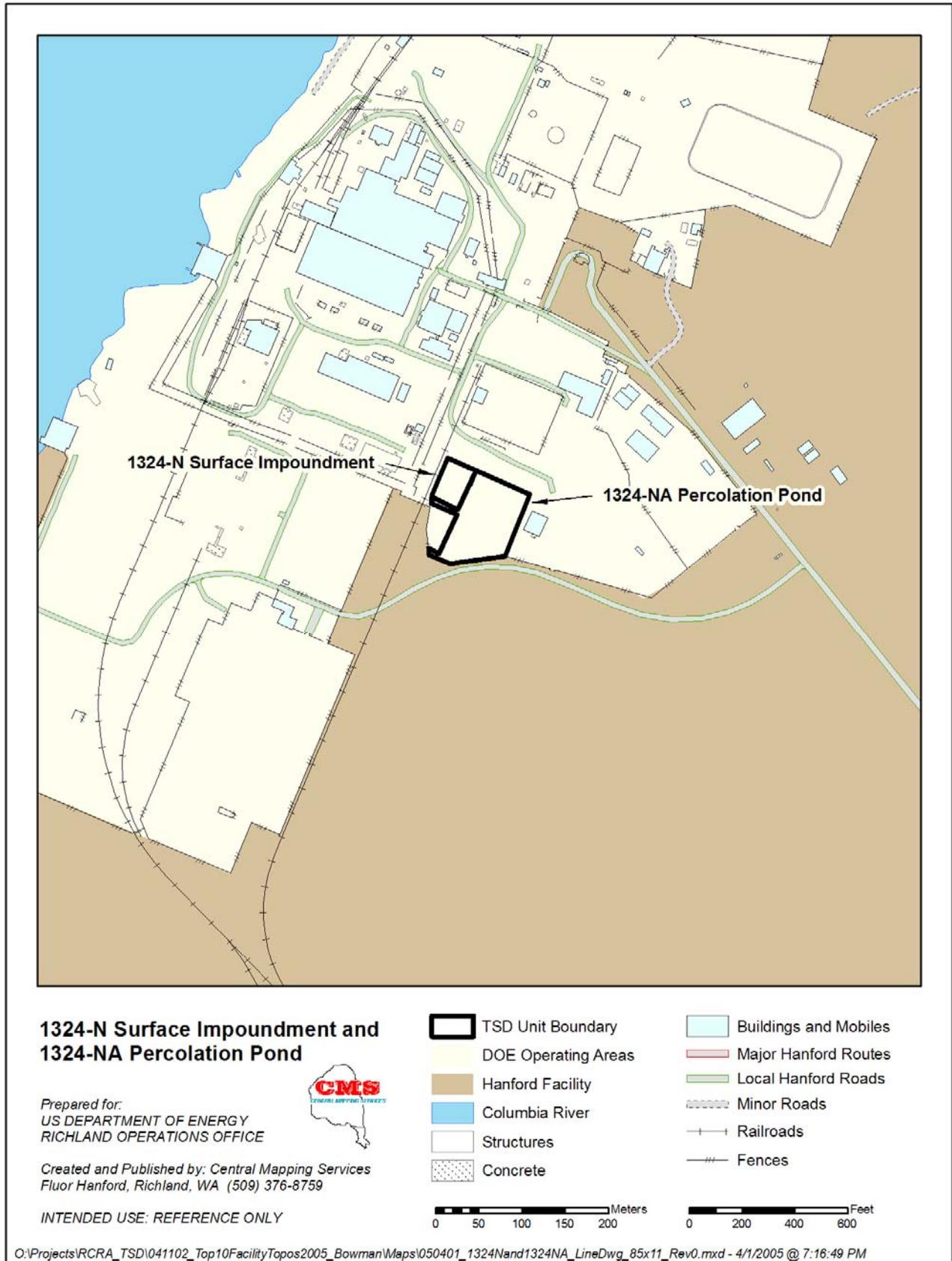
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## 1324-NA Percolation Pond

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