

	WASHINGTON STATE DEPARTMENT OF <b>E C O L O G Y</b>	<h2 style="margin: 0;">Dangerous Waste Permit Application Part A Form</h2>
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Date Received	Reviewed by:	Date:
Month    Day    Year	Approved by:	Date:
Please refer to instructions for completing this form.		

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

<input 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 checked="" 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	D	9	9	0	8	2	8	4	0	2
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**III. Name of Facility**

AREVA NP INC.

**IV. Facility Location (Physical address not P.O. Box or Route Number)**

**A. Street**

2101 Horn Rapids Road

<b>City or Town</b>	<b>State</b>	<b>ZIP Code</b>
Richland	WA	99354

<b>County Code (if known)</b>	<b>County Name</b>
	Benton

<b>B. Land Type</b>	<b>C. Geographic Location</b>	<b>D. Facility Existence Date</b>
	Latitude (degrees, mins, secs)      Longitude (degrees, mins, secs)	Month    Day    Year
P	4 6 2 1 3      1 9 1 8 2 0	1 0      1 9 9 7

**V. Facility Mailing Address**

**Street or P.O. Box**

2101 Horn Rapids Road

<b>City or Town</b>	<b>State</b>	<b>ZIP Code</b>
Richland	WA	99354

Use the tab key to move from cell to cell in the electronic version of this form.  
 PLEASE ENTER INFORMATION ONLY IN UNSHADED AREAS.

**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 & 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	1	1250	Y	001	1								
2	S	0	2	2000	G	001	2								
3							3								
4							4								
5							5								
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2 0							2 0								
2 1							2 1								
2 2							2 2								
2 3							2 3								
2 4							2 4								
5							2 5								



X. Other Environmental Permits (see instructions)												
A. Permit Type		B. Permit Number										C. Description
	N	C	R	-	I	U	0	0	8			City of Richland industrial wastewater discharge permit
	E	O	R	D	E	R	9	5	-	0	5	Benton Clean Air Authority NOx Synthetic Minor Order
	E	W	N	-	I	0	6	2	-	1		State of WA Radioactive Materials License
	E	A	I	R	0	2	-	9	0	7		State of WA Radionuclide Air Emissions License
	E	S	N	M	-	1	2	2	7			Nuclear Regulatory Commission Site Operating License
	E	G	-	1	0	3	2					Hanford Low Level Radioactive Waste site use permit
	E	0	1	1	0	0	0	0	0	2	4	EnergySolutions (Utah) site access permit (mixed-waste)

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

The AREVA NP INC (AREVA) nuclear fuel fabrication facility, located in Richland, Washington, manufactures nuclear fuel for commercial light water reactors. The manufacturing process is initiated by the chemical conversion of uranium hexafluoride (UF6) to uranium dioxide (UO2). This conversion process occurs in the Dry Conversion Facility and, in addition to the UO2 powder, produces a uranium-free hydrofluoric acid by-product. In the adjacent UO2 Building the UO2 powder from the conversion process is further processed via a sequence of steps prior to being pressed into pellets. The pellets are loaded into fuel rods, which are in turn combined into bundles, which are the fuel assemblies for nuclear power reactors. In addition to producing finished fuel assemblies, the Richland plant produces intermediate fuel products (powder, pellets) for shipment to other offsite fuel fabrication facilities.

The facility generates both liquid phase and solid phase wastes throughout the manufacturing process as well as in a wide variety of manufacturing and facility support activities. Most of the liquid process waste streams discharge into a tank system for processing prior to discharge to the POTW. Other liquid wastes (cooling water, process water, etc.) are discharged directly to the POTW. All liquid discharges meet the requirements as listed in Industrial Wastewater Discharge Permit CR-IU008.

Solid phase wastes are typically managed in containers (drums, steel boxes) at the Dangerous Waste Storage Facility (DWSF). Waste types generated include dangerous waste, mixed waste (dangerous + radioactive), and low level radioactive waste (LLRW). All dangerous and mixed wastes are stored at the DWSF located in the south east corner of the facility, while certain LLRW may be stored in other areas of the facility. Wastes stored at the DWSF include HEPA and prefilters, filter cake, solvent rags, paint waste, liquid solvents, etc. Dangerous wastes are shipped to an approved waste treatment/disposal company. Approved mixed wastes are sent to Energy Solutions in Clive, UT for treatment (if necessary) and disposal.



**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.

Operator Chuck Perkins, Richland Site Manager Name and Official Title (type or print)	Signature 	Date Signed 5/30/08
Facility/Property Owner Name and Official Title (type or print)	Signature	Date Signed

**XIX. Comments**

XV. A topographic map has been included. Topographic features at this facility are limited, there is no surface waste with 1/4 mile of the facility property boundary.

XVI. A facility drawing has been included. The Dangerous Waste Storage Facility (DWSF) is located in the south east corner of the facility, see F-3 on the drawing. The Component Center Waste Tank (CCWT) is located on the west side of the facility, see B-4 on the drawing.

XVII. Photographs of the DWSF, CCWT, and an aerial photograph have been included.

Figure 1. Dangerous Waste Storage Facility

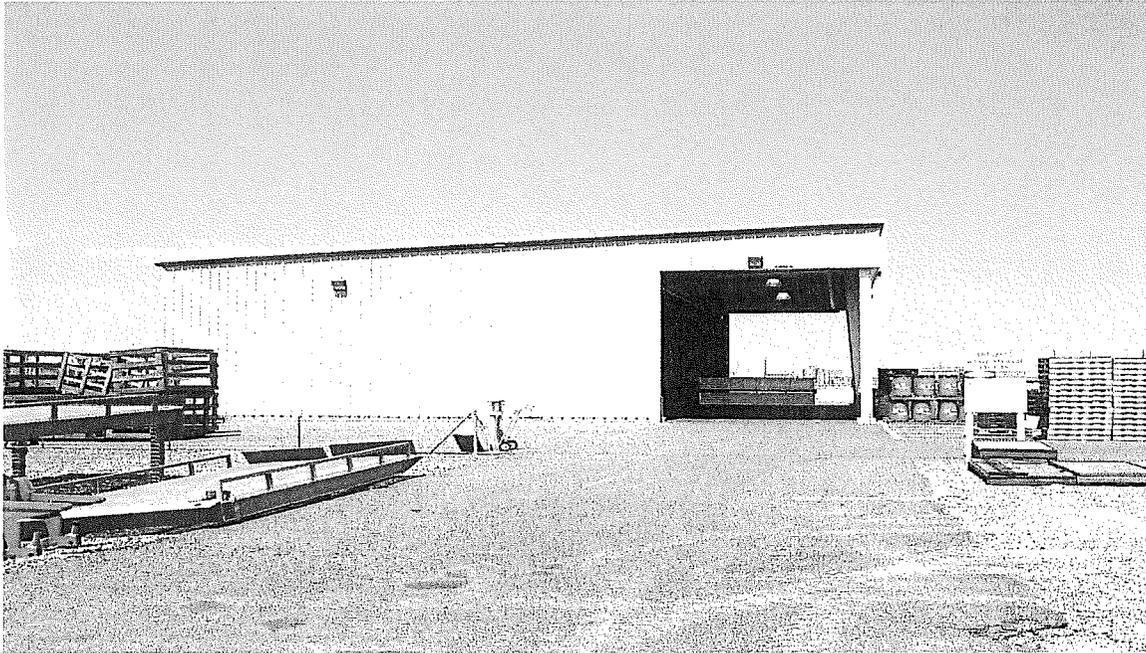


Figure 2. Dangerous Waste Storage Facility



Figure 3. Dangerous Waste Storage Facility

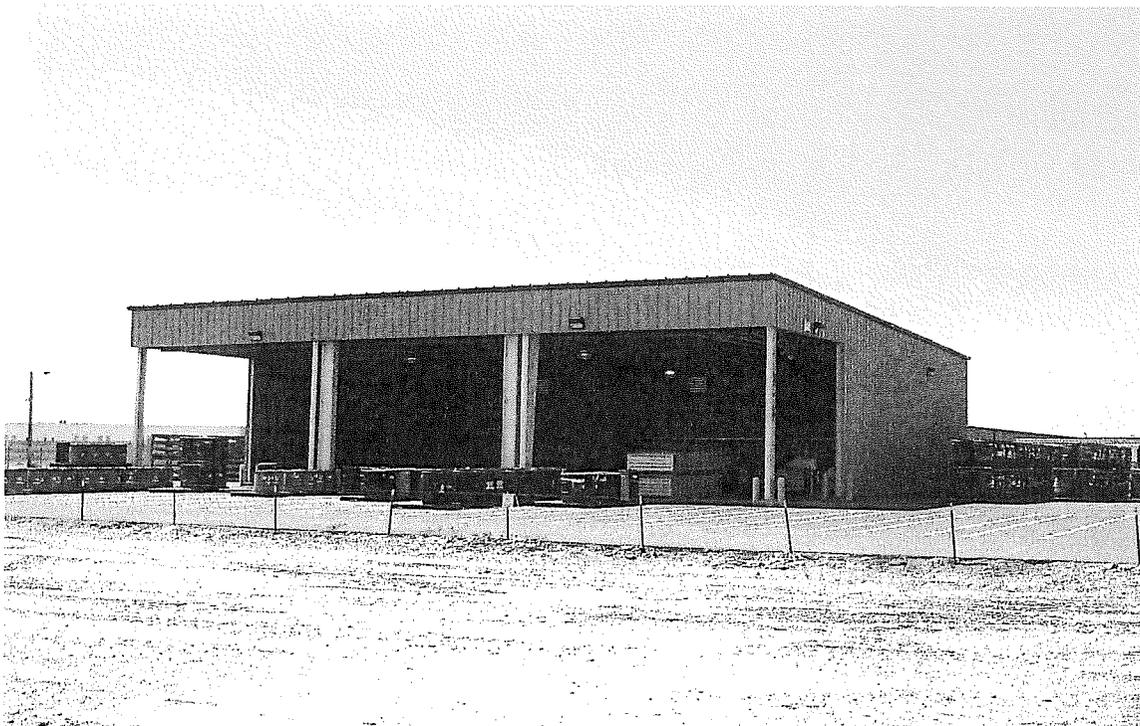


Figure 4. Dangerous Waste Storage Facility



Figure 5. Component Chemical Waste Tank

