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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

1315 W 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

March 2, 2000

Mr. James E. Rasmussen  
United States Department of Energy  
P.O. Box 550; MSIN: A5-15  
Richland, Washington 99352

Mr. Michael C. Hughes  
Bechtel Hanford, Inc.  
3350 George Washington Way  
Richland, Washington 99352

Mr. William D. Adair  
Fluor Daniel Hanford, Inc.  
P.O. Box 1000; MSIN: H6-21  
Richland, Washington 99352

Mr. Roby D. Enge  
Pacific Northwest National Laboratory  
P.O. Box 999; MSIN: P7-75  
Richland, Washington 99352

Dear Messrs. Rasmussen, Adair, Hughes, and Enge:

Re: *Quarterly Notification of Class 1 Modifications to the Hanford Facility Resource Conservation & Recovery (RCRA) Permit, Dangerous Waste Portion (Quarter Ending December 31, 1999 - Condition I.C.3)*

Enclosed are the Modification Notification Forms indicating those Modifications that the Washington State Department of Ecology (Ecology) has reviewed and approved for the referenced quarterly Class 1 Modifications.

These quarterly Modifications include:

- Part III, Chapter 2 (305-B Storage Facility)
- Part III, Chapter 4 (Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility)
- Part III, Chapter 4 (242-A Evaporator)

Note that seven (7) of the proposed Class 1 Modifications for 242-A Evaporator were either rejected or revised (see pages 2, 12, 14, 18, 41, 47, and 60).

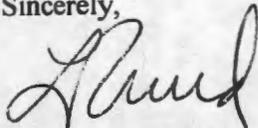
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Messrs. Rasmussen, Adair, Hughes, and Enge  
March 2, 2000  
Page 2

If you have any questions or comments regarding this letter, please do not hesitate to contact me at  
(509) 736-5715.

Sincerely,



Laura Ruud, Permitting Specialist  
Nuclear Waste Program

LR:ld

Enclosures

cc w/enclosures:

Ellen Mattlin, USDOE  
Suzette Thompson, FDH  
Lorna Dittmer, BHI  
Alice Ikenberry, PNNL

J.R. Wilkinson, CTUIR  
Donna Powaukee, NPT  
Russell Jim, YIN

Administrative Record: Sitewide Permit

cc w/o enclosures:

Clifford Clark, USDOE  
Sue Price, FDH  
Mary Lou Blazek, OOE

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**Hanford Facility RCRA Permit Modification Notification Forms  
for  
305-B Storage Facility  
Part III, Chapter 2, Attachment 18**

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### Hanford Facility RCRA Permit Modification Notification Form

Unit: <b>305-B Storage Facility</b>	Permit Part & Chapter: <b>Part III, Chapter 2 and Attachment 18</b>			
<u>Description of Modification:</u>				
Chapter 8, Figure 8-1: change represents current course titles.	<b>STAFF POSITION<sup>1</sup></b>			
TRAINING COURSE NAME	OS	E	TS	C
Building Emergency/Contingency Plan	A <sup>2</sup>	A	A	A
<del>Handheld Radio Operator</del>	<del>I</del>	<del>I</del>	<del>I</del>	<del>I</del>
General Radiation Safety	B	B	B	N
Radiation Safety for Females <sup>3</sup>	I	I	I	I
Respiratory Protection	A	A	A	N
TSD Operator (24 hour w/8-hour refresher)	I/A	I/A	I/A	I/A
SCBA Training	A	A	A	N
Fire Extinguisher Use	A	A	A	A
Worker Right-To-Know	I	I	I	I
Vehicle Accident Prevention	T	T	T	T
Crane, Hoist and Rigging Safety	N	N	T	N
Safe Forklift Operation	N	N	T	N
Hazardous Waste Shipment Certification	T	T	T	N
<del>Radioactive Material Shipping Representative</del> Radioactive Mixed Waste Shipment Certification	<del>B<sup>4</sup></del>	<del>B<sup>4</sup></del>	<del>B<sup>4</sup></del>	N
<del>305-B Safe</del> annual review of facility operating procedures	A	A	A	A
Advanced Hazardous Waste Training	A	A	A	N
Hazardous Waste Operations Supervisor	I	N	N	N
Waste Designation Training	I	I <sup>5</sup>	I <sup>5</sup>	N
<sup>1</sup> Staff Position Key: OS            Unit Operations Supervisor E            Waste Management Engineers TS          Waste Management Technicians and Scientist/Engineering Associates C            Waste Management Clerks <sup>2</sup> Requirements Key: A Annually; B Biennially; T Triennially; I Initially upon assignment to the unit; N Not Required. <sup>3</sup> Required for female staff only. This information is given in the various radiation safety classes and is not a separate stand-alone class. <sup>4</sup> Required for Radioactive Mixed Waste Management staff (TS or E) only. Successful completion of this course meets the requirements of the Hazardous Waste Shipment Certification course <sup>5</sup> Required for any TS that has the assigned duty of making waste designations.				
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			
Relevant WAC 173-303-830, Appendix I Modification:    A.1.				
Enter wording of the modification from WAC 173-303-830, Appendix I citation:				
A. General Permit Provisions				
1. Administrative and Informational changes.				
Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:	
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry            Date	<i>R.F. Christensen</i> 1/4/00 R.F. Christensen            Date	<i>A.B. Stone</i> 2/2/00 A.B. Stone            Date	<i>L.E. Ruud</i> 3/2/00 L.E. Ruud            Date	

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

### Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Section 8.1.4, page 8-4, lines 45-48: Revised course enables staff to ship waste as well as material.

- **Radioactive Mixed Waste Certification – Triennial:** This training ensures that these persons understand their responsibilities and liabilities in the shipment of hazardous waste, and radioactive material/waste and that staff understand which regulations are applicable and how they must achieve compliance.
- ~~Radioactive Material Shipping Representative – Triennial:~~ This course provides training in the onsite radioactive material shipping procedures and requirements. ~~Successful completion of this course is required to receive authorization to sign for onsite radioactive shipments (onsite RSRs).~~

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

- A. General Permit Provisions  
1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry Date	<i>R.F. Christensen</i> 1/4/00 R.F. Christensen Date	<i>A.B. Stone</i> 2/2/02 A.B. Stone Date	<i>L.E. Ruud</i> 3/2/02 L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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**Hanford Facility RCRA Permit Modification Notification Form**

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Section 8.1.5, page 8-5, lines 36-38: Hand help radios have been upgraded to cellular phones:

~~Hand Held Radio Operator: conducted initially, this briefing makes the employee familiar with the operation of the hand held and truck mounted radios for both everyday and emergency operation. This briefing also includes a discussion on radio etiquette.~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

- A. General Permit Provisions
  - 1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry Date	<i>R.F. Christensen</i> 1/4/00 R.F. Christensen Date	<i>A.B. Stone</i> 2/2/00 A.B. Stone Date	<i>L.E. Ruud</i> 3/2/00 L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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This form was intentionally omitted.

### Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Section 7.4.4.4, page 7-7, lines 1-17:

Building Emergency Director (BED) (or alternate)

1. Go directly to the unit to coordinate further activity. Take command of the scene from discovering unit employee.
2. Obtain all immediately available information pertaining to the incident. Determine need for assistance from agencies listed in Section 7.6 and arrange for their mobilization and response through the Single Point Contact.
3. If building evacuation is necessary, sound the fire alarm.
4. Arrange for care of any injured employees and provide for any additional help necessary to safely evacuate any disabled staff, or visitors.
5. If a threat to surrounding facilities/operations exists. The BED (or alternate) will identify the hazards and any appropriate actions needed in the case of an unplanned release and activate the Emergency Operations Center (EOC).

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry Date	<i>R.F. Christensen</i> 1/4/00 R.F. Christensen Date	<i>A.B. Stone</i> 2/2/00 A.B. Stone Date	<i>L.E. Ruud</i> 2/2/00 L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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### Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Section 7.7, page 7-17, line 23: This modification makes reference to the map showing the entire facility evacuation route.

**7.7 EVACUATION PLAN [G-7]**

The 305-B unit has an evacuation plan, which includes emergency signal identification and staging area location. In the event an evacuation is required, 305-B unit personnel depart by one of the exit doors noted in Figure 7.2 and proceed through the north gate. They are to assemble in the north parking lot Figure 7.3, Lane 2 accountability area for accounting. If the north gate is blocked by the emergency, personnel may escape through the Apple Street (west) gate opening to Stevens Drive or the south gate.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

- A. General Permit Provisions  
1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry Date	<i>R.F. Christensen</i> 1/4/00 R.F. Christensen Date	<i>A.B. Stone</i> 2/2/00 A.B. Stone Date	<i>L.E. Ruud</i> 2/2/00 L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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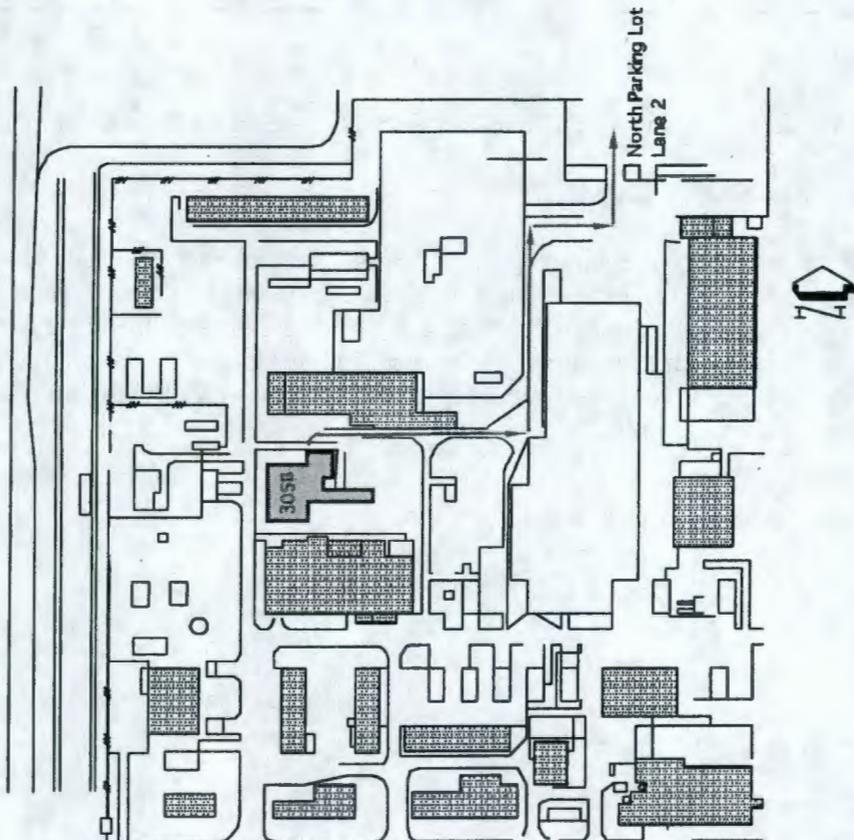
**Hanford Facility RCRA Permit Modification Notification Form**

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Chapter 7, Figure 7.3:



Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

- A. General Permit Provisions
  - 1. Administrative and Informational changes.

Submitted by Co-Operator: <i>A.K. Ikenberry</i> A.K. Ikenberry	Reviewed by RL Program Office: <i>R.F. Christensen</i> R.F. Christensen	Reviewed by Ecology: <i>A.B. Stone</i> A.B. Stone	Reviewed by Ecology: <i>E.E. Ruud</i> E.E. Ruud
<i>12/13/99</i> Date	<i>1/4/00</i> Date	<i>2/2/00</i> Date	<i>3/2/00</i> Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

### Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**305-B Storage Facility**

Permit Part & Chapter:  
**Part III, Chapter 2 and Attachment 18**

Description of Modification:

Section 6.1.1.1, page 6-3, lines 6-12: This allows access for untrained staff to the office areas of the facility to perform routine maintenance on computer systems, and facility equipment.

Entry to the unit is controlled through the use of locked entrances. The 305-B Storage Unit is kept locked at all times except when in use. Physical control of keys and records of key distributions are maintained by PNNL Security. Distribution of keys to 305-B is subject to approval by the building manager, and the facility operating supervisor, and a list of those personnel in possession of keys is kept in the Operating Record for 305-B. Personnel in possession of keys have been instructed to admit only persons having official business. ~~Waste management organization personnel must escort all visitors to the unit.~~ 305-B facility staff must escort all untrained visitors (personnel without 24/40-hour hazawoper training) in the waste storage areas.

Modification Class: <sup>12 3</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 12/13/99 A.K. Ikenberry Date	<i>R.F. Christensen</i> 1/11/00 R.F. Christensen Date	<i>A.B. Stone</i> 2/2/00 A.B. Stone Date	<i>L.E. Ruud</i> 3/2/00 L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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### Hanford Facility RCRA Permit Modification Notification Form

Unit:  
305-B Storage Facility

Permit Part & Chapter:  
Part III, Chapter 2 and Attachment 18

**Description of Modification:**

Section 6.3.1.3, page 6-10, lines 31-35 and page 6-11, lines 1-5: The Halon extinguisher is being replaced with an ABC extinguisher.

**Emergency Equipment [F-3a(3)]**

Emergency equipment available for trained 305-B personnel includes portable fire extinguishers, a fire suppression system, spill response equipment, and decontamination equipment. Seven portable 10-lb ABC fire extinguishers, and one 15-lb (or larger) Class D fire extinguisher for combustible metals, ~~and one portable 14-lb Halon fire extinguisher~~ are available at various locations throughout 305-B, as shown in Figure 6-4. The 10-lb ABC extinguishers are located: (1) next to the east entrance; (2) northwest end of the basement; (3) southwest end of the high bay; (4) outside of the bulking module door; (5) north of Cell No. 4 entrance; and (6) north-west end of high bay. (7) office area. A 15-lb ABC extinguisher is located outside cell 7. The 15-lb (or larger) class D extinguisher is located on the exterior of the organics cell wall north of the entrance. ~~The one Halon fire extinguisher is located in the office area.~~

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation:

A. General Permit Provisions

1. Administrative and Informational changes

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>A.K. Ikenberry</i> 2/13/99	<i>R.F. Christensen</i> 1/4/00	<i>A.B. Stone</i> 2/2/00	<i>L.E. Ruud</i> 3/2/00
A.K. Ikenberry Date	R.F. Christensen Date	A.B. Stone Date	L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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**Hanford Facility RCRA Permit Modification Notification Forms**  
**Part III, Chapter 4 and Attachment 34**  
**Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility**

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Page 5 of 12:	Chapter 4, Section 4.4.4.1.2.
Page 6 of 12:	Chapter 4, Section 4.4.5.2.
Page 7 of 12:	Chapter 4, Table 4-2
Page 8 of 12:	Chapter 4, Section 4.2.5.
Page 9 of 12:	Chapter 4, Section 4.2.5.2
Page 10 of 12:	Chapter 4, Section 4.5.2.1.
Page 11 of 12:	Chapter 4, Section 4.6.2.2.
Page 12 of 12:	Appendix 4B, Table 4B-2

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
Liquid Effluent Retention Facility and  
200 Area Effluent Treatment Facility

Permit Part & Chapter:  
Part III, Chapter 4 and Attachment 34

Description of Modification:

Section 4.2.1:

**4.2.1 Load-In Station**

The ETF receives aqueous waste from LERF or the Load-In Station. The ETF Load-In Station, located due east of the surge tank and outside of the perimeter fence (Figure 4-3), was designed and constructed to provide the capability to unload, store, and transfer aqueous waste to the ETF or LERF from tanker trucks, and potentially and other containers (such as drums). The Load-In Station consists of two load-in tanks, transfer pumps, filtration system, level instrumentation for tanker trucks, leak detection capabilities for the containment basin and transfer line, and an underground transfer line that connects to lines in the surge tank berm, allowing transfers to either the ETF surge tank or LERF.

Currently, tanker trucks and other containers are used to unload aqueous waste at the Load-In Station. A tanker truck is positioned on a truck pad, a 'load-in' transfer line is connected to the truck, and the tanker contents are pumped into one of the Load-In Station tanks, the surge tank, or directly to the LERF. For container unloading, the container is placed on the truck pad and the container contents are pumped into one of the Load-In Station tanks, the surge tank, or directly to the LERF.

During unloading operations, solids may be removed from the waste by pumping the contents of the tanker truck or container through a filtration system. If solids removal is not needed, the filtration system is not used and the solution is transferred directly to the Load-In Station tanks, surge tank, or to LERF.

Any leaks at the Load-In Station drain to the sump. A leak detector in the sump alarms locally and in the ETF control room. Alternatively, leaks can be visually detected.

Modification Class: <sup>123</sup>

Class 1

Class<sup>1</sup>1

Class 2

Class 3

Please check one of the Classes:

X

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

e. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator: <i>J. D. Williams</i> J. D. Williams	Reviewed by RI Program Office: <i>H. E. Bilson</i> H. E. Bilson	Reviewed by Ecology: <i>R. J. Julian</i> R. J. Julian	Reviewed by Ecology: <i>L. E. Ruud</i> L. E. Ruud
Date: 7/12/99	Date: 7/13/99	Date: 7/15/99	Date: 7/27/99

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit: <b>Liquid Effluent Retention Facility and                  200 Area Effluent Treatment Facility</b>	Permit Part & Chapter: <b>Part III, Chapter 4 and Attachment 34</b>
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Description of Modification:

Section ~~4.2.1:~~ **4.4.1.2**

All  
7/15/99

**4.2.1 Design Information for Tanks Located Outside of Effluent Treatment Facility**

The load-in tanks, surge tank, and verification tanks are located outside the ETF. These tanks are located within concrete structures that provide secondary containment.

**Load-In Tanks and Ancillary Equipment.** The load-in tanks are constructed of stainless steel, are heated, and have a nominal capacity of 37,900 liters. Ancillary equipment includes transfer pumps, ~~filtration system~~ a double-encased, fiberglass transfer pipeline, level instruments for tanker trucks, and leak detection equipment. From the Load-In Station, aqueous waste can be routed to the surge tank or to the LERF through a double-encased line. The load-in tanks, sump, pumps, and truck pad are all provided with secondary containment.

A.1.2  
14  
15/99

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:		X		

Relevant WAC 173-303-830, Appendix I Modification: **G.I.e. Tanks**

Enter wording of the modification from WAC 173-303-830, Appendix I citation

c. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator: <i>J.D. Williams</i>	Reviewed by RL Program Office: <i>H. E. Bilson</i>	Reviewed by Ecology: <i>R. S. Julian</i>	Reviewed by Ecology: <i>L. E. Ruud</i>
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
Liquid Effluent Retention Facility and  
200 Area Effluent Treatment Facility

Permit Part & Chapter:  
Part III, Chapter 4 and Attachment 34

Description of Modification:

Section 4.4.1.4:

**4.4.1.4 Design Information for Effluent Treatment Facility Process Units**

As with the ETF tanks, process units that treat and/or store dangerous and/or mixed waste are maintained at or near atmospheric pressure. These units were constructed to meet a series of design standards, as discussed in the following sections. Table 4-2 presents the materials of construction and the ancillary equipment associated with these process units. All piping systems are designed to withstand the effects of internal pressure, weight, thermal expansion and contraction, and any pulsating flow. The design and integrity of these units are presented in the engineering assessment (Mausshardt 1995).

**Filters.** The ~~load-in~~ fine and rough filter vessels (including the auxiliary filters) are designed to comply with the ASME Section VIII, Division I, Pressure Vessels (ASME 1992a). The application of these standards to the construction of the ETF filter system and independent inspection ensure that the filter and filter supports have sufficient structural strength and that the seams and connections are adequate to ensure the integrity of the filter vessels.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1	Class <sup>1</sup>	Class 2	Class 3
	X		

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

e. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator: <i>Kenneth D. Swoboda</i> for J. D. Williams	Reviewed by RL Program Office: <i>H. E. Bilson</i> H. E. Bilson	Reviewed by Ecology: <i>R. J. Julian</i> R. J. Julian	Reviewed by Ecology: <i>L. E. Ruud</i> L. E. Ruud
Date: <i>7/12/99</i>	Date: <i>7/13/99</i>	Date: <i>7/13/99</i>	Date: <i>7/27/99</i>

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

<b>Unit:</b> <b>Liquid Effluent Retention Facility and          200 Area Effluent Treatment Facility</b>	<b>Permit Part &amp; Chapter:</b> <b>Part III, Chapter 4 and Attachment 34</b>
---	---

Description of Modification:

Section 4, Table 4-2:

Table 4-2. Ancillary Equipment and Material Data. (sheet 1 of 2)

System	Ancillary equipment	Number	Material
Load-in tanks	Load-in/transfer pumps (2)	P-103A/-103B	316 SS
	Load-in filters (3)	59A-101-102-103	304 SS

Modification Class: <sup>123</sup> Please check one of the Classes:	Class 1	Class <sup>1</sup>	Class 2	Class 3
		X		

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

c. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator: <i>J. D. Williams</i>	Reviewed by RL Program Office: <i>H. E. Bilson</i>	Reviewed by Ecology: <i>R. J. Julian</i>	Reviewed by Ecology: <i>L. E. Ruud</i>
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**Liquid Effluent Retention Facility and  
 200 Area Effluent Treatment Facility**

Permit Part & Chapter:  
**Part III, Chapter 4 and Attachment 34**

Description of Modification:

Section 4.4.5.2:

**Filter Systems.** ~~Both the rough filter and fine filter~~ All filters at BTF (i.e., the Load-In Station, rough, fine and auxiliary filter systems) are in leak-tight steel casings. For the rough and fine filters, a high differential pressure, which could damage the filter element, deactivates a valve that shuts off liquid flow to protect the filter element from possible damage. To prevent a high pressure situation, the filters are cleaned routinely with pulses of compressed air that force water back through the filter. Cleaning is terminated automatically by shutting off the compressed air supply if high pressure develops. The differential pressure across the auxiliary filters also is monitored. A high differential pressure in these filters would result in a system shutdown to allow the filters to be changed out.

The Load-In Station filtration system has pressure gauges for monitoring the differential pressure across each filter. A high differential pressure would result in discontinuing filter operation until the filter is replaced.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

c. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator:

Reviewed by RI/Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

J. D. Williams

Date

H. E. Bilson

Date

K. A. Julian

Date

L.E. Ruud

Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
Liquid Effluent Retention Facility and  
200 Area Effluent Treatment Facility

Permit Part & Chapter:  
Part III, Chapter 4 and Attachment 34

Description of Modification:

Section 4.4.4.1.2:

4.4.4.1.2 Specific Containment Systems

The following discussion presents a description of the individual containment systems associated with specific tank systems.

**Load-In Tank Secondary Containment.** The load-in tanks are mounted on a 46-centimeter-thick reinforced concrete slab (Drawing H-2-817970, Appendix 4B). Secondary containment is provided by a pit with 30.5-centimeter-thick walls and a floor constructed of reinforced concrete. The load-in tank pit is sloped to drain solution to a sump. The depth of the pit varies with the slope of the floor, with an average thickness of about 1.1 meters. The volume of the secondary containment is about 79,000 liters, which is capable of containing the volume of at least one load-in tank (i.e., 37,800 liters). Leaks are detected by a leak detector that alarms locally and in the ETF control room and by visual inspection of the secondary containment.

Adjacent to the pit is a 25.4-centimeter-thick reinforced concrete pad that serves as secondary containment for the load-in tanker trucks, containers, and transfer pumps, and filter system. The pad is 15.2 centimeters below grade with north and south walls gently sloped to allow truck access. The pad has drain pipes to route waste solution to the adjacent load-in tank pit.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

e. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator:

Reviewed by RL Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

J. D. Williams

Date

H. E. Bilson

Date

R. J. Julian

Date

L. E. Ruud

Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

**Unit:**  
**Liquid Effluent Retention Facility and  
 200 Area Effluent Treatment Facility**

**Permit Part & Chapter:**  
**Part III, Chapter 4 and Attachment 34**

Description of Modification:

Chapter 4, Section 4.2.5.:

**4.2.5. Other Effluent Treatment Facility Systems**

The ETF is provided with support systems that facilitate treatment in the primary and secondary treatment trains and that provide for worker safety and environmental protection. An overview of the following systems is provided:

- Monitor and control system
- Vessel offgas system
- Sump collection system
- Chemical reagent injection feed system
- Verification tank recycle system
- Utilities.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

- A. General Permit Provisions
1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
12/13/95		02/07/00	3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. Julian Date	L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
Liquid Effluent Retention Facility and  
200 Area Effluent Treatment Facility

Permit Part & Chapter:  
Part III, Chapter 4 and Attachment 34

Description of Modification:

Chapter 4, Section 4.2.5.2.:

**4.2.5.2. Vessel Offgas System**

Ventilation for various tanks and vessels is provided through the vessel offgas system. The system includes a moisture separator, duct heater, pre-filter, high-efficiency particulate air filters, carbon adsorber (when required to reduce organic emissions), exhaust fans, and ductwork. Gasses ventilated from the tanks and vessels enter the exhaust system through the connected ductwork. The vessel offgas system draws vapors and gasses off the following tanks and treatment systems:

- Surge tank
- ETF evaporator
- pH adjustment tank
- Concentrate tanks
- Degasification system
- First and second RO stages
- Dry powder hopper
- Effluent pH adjustment tank
- Drum capping station
- Secondary waste receiving tanks
- Resin dewatering system
- Distillate condenser (off the thin film dryer)
- Sump tanks 1 and 2.

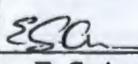
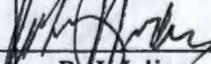
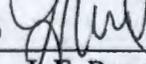
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

A. General Permit Provisions

1. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L. E. Ruud
Date	Date	Date	Date
12/13/95	DEC 27 1999	02/07/00	3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**Liquid Effluent Retention Facility and  
 200 Area Effluent Treatment Facility**

Permit Part & Chapter:  
**Part III, Chapter 4 and Attachment 34**

Description of Modification:

Chapter 4, Section 4.5.2.1.:

**4.5.2.1. Liner Construction Materials [650(2)(a)(i)(A)]**

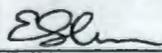
The LERF employs a double-composite liner system with a leachate detection, collection, and removal system between the primary and secondary liners. Each basin is constructed with an upper or primary liner consisting of a high-density polyethylene geomembrane laid over a bentonite carpet liner. The lower or secondary liner in each basin is a composite of a geomembrane laid over a layer of soil/bentonite admixture with a hydraulic conductivity less than  $10^{-7}$  centimeters per second. The synthetic liners extend up the dike wall to a concrete anchor wall that completely surrounds the basin at the top of the dike. A batten system bolts the layers in place to the anchor wall (Figure 4-15).

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.2.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

- A. General Permit Provisions  
 2. Correction of typographical errors.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99	 DEC 27 1999	 02/07/00	 3/20/00
E. S. Aromi	R. F. Guer	R. Julian	L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**Liquid Effluent Retention Facility and  
 200 Area Effluent Treatment Facility**

Permit Part & Chapter:  
**Part III, Chapter 4 and Attachment 34**

Description of Modification:

Chapter 4, Section 4.6.2.2.:

**4.6.2.2. Demonstrating Compliance [D-8a(2)(b)]**

Calculations to determine organic emissions are performed using the following assumptions:

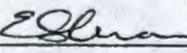
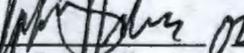
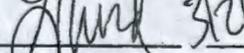
- Maximum flow rate from LERF to ETF is 568 liters per minute.
- Emissions of organics from tanks and vessels upstream of the UV/OX process are determined from flow and transfer rates given in *Clean Air Act Requirements, WAC 173-400, As-built Documentation, Project C-018H, 242-A Evaporator/PUREX Plant Process Condensate Treatment Facility* (Adtechs 1995).
- UV/OX reaction rate constants and residence times are used to determine the amount of organics which are destroyed in the UV/OX process. These constants are given in *200 Area Effluent Treatment Facility Delisting Petition* (DOE/RL 1992).
- All organic compounds that are not destroyed in the UV/OX process are assumed to be emitted from the tanks and vessels into the vessel offgas system.
- No credit for removal of organic compounds in the vessel offgas system carbon adsorber unit is taken. The activated carbon absorbers are used if required to reduce organic emissions.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by PL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. Julian	 L.E. Ruud
12/13/99 Date	DEC 2 Date	02/01/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit: <b>Liquid Effluent Retention Facility and                  200 Area Effluent Treatment Facility</b>	Permit Part & Chapter: <b>Part III, Chapter 4 and Attachment 34</b>
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Description of Modification:

Appendix 4B, Table 4B-2:

Table 4B-2. Drawings of Major Process Units and Tanks at the Effluent Treatment Facility and Load-In Station.

ETF Process Unit	Drawing Number	Outstanding ECNs	Drawing Title
Load-In Facility	H-2-817974, Sh 1, Rev. 9	ECN-647201L ECN-642820L ECN-647247 ECN-649112 ECN-649116	P&ID - ETF Truck Load-In Facility (Sheet 1)

Modification Class: <sup>12 3</sup> Please check one of the Classes:	Class 1	Class <sup>1</sup>	Class 2	Class 3
		X		

Relevant WAC 173-303-830, Appendix I Modification: G.I.e. Tanks

Enter wording of the modification from WAC 173-303-830, Appendix I citation

G.I.e. Modification or addition of tank units or treatment processes necessary to treat wastes that are restricted from land disposal to meet some or all of the applicable treatment standards or to treat wastes to satisfy (in whole or in part) the standard of "use of practically available technology that yields the greatest environmental benefit" contained in 40 CFR 268.8 (a)(2)(ii), with prior approval of the director. This modification may also involve addition of new waste codes. It is not applicable to dioxin-containing wastes (F020, 021, 022, 023, 026, 027, and 028).

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E.S. Aromi	 R. F. Guercia	 R. J. Julian	 E.E. Ruud
Date	Date	Date	Date
12/12/99	DEC 7 1999	02/28/00	3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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# Hanford Facility RCRA Permit Modification Notification Forms

## Part III, Chapter 5 and Attachment 35 242-A Evaporator

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Page 31 of 61	Appendix 7A, Section 6.2	Page 61 of 61	Appendix 7A, Attachment A

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Chapter 2, Section 2.1.2.1.:

**2.1.2.1. The 207-A Retention Basins**

The 207-A retention basins consist of six basins constructed of reinforced concrete, each having about 265,000 liters capacity. The north three basins ~~are were~~ used to temporarily store non-contact steam condensate from the 242-A Evaporator for sampling before discharge. ~~Subsequently, the steam condensate was routed directly to the 200 Area Treated Effluent Disposal Facility (TEDF) and the 207-A retention basins are no longer used.~~ The three north basins are included in the 242-A Evaporator waste management unit. The three south basins previously held process condensate mixed waste for sampling and discharge. These basins have been removed from service, emptied, and will be closed under a separate closure plan.

7/21/08/00

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1	Class <sup>1</sup> 1	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>ESA</i> 12/13/99	<i>R. F. Guercia</i>	<i>R. J. Julian</i> 07/07/00	<i>L. E. Ruud</i> 3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	L. E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Chapter 4, Section 4.0.:

Other discharges during 242-A Evaporator processing include condensate from the steam used to heat the waste and cooling water used to condense the vapors. The 242-A Evaporator is designed to prevent contamination of these streams. The fluids on the uncontaminated side of the heat exchangers are maintained at a higher pressure than the waste stream so that uncontaminated fluid migrates toward the contaminated waste if a leak were to occur. The steam condensate is discharged to the 207 A North Retention Basins for storage awaiting transfer to the TEDF. The cooling water is monitored continuously for radiation and discharged directly to TEDF as long as the radiation limits are not exceeded. The steam condensate and cooling water streams were assessed in the stream specific reports (WHC 1990a and WHC 1990b) and are not dangerous waste in accordance with WAC 173-303.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RCRA Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>E.S. Aromi</i> E. S. Aromi	<i>R.F. Guercia</i> R. F. Guercia	<i>R.J. Julian</i> R. J. Julian	<i>L.E. Ruud</i> L. E. Ruud
12/18/99 Date	 Date	02/07/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.



## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 1.0:

### 1.0 GENERAL INFORMATION

The 242-A Evaporator, which is part of the 200 Area Liquid Waste Processing Facilities (LWPF), is located on the Hanford Site, a 560-square-mile U.S. Department of Energy (DOE) site in southeastern Washington State. The 242-A Evaporator is located in the southeast portion of the 200 East Area near the center of the Hanford Site. The Hanford Site Emergency Preparedness Program is based upon the incident command system which allows a graded approach for response to emergency events. This plan contains a description of facility specific emergency planning and response. It is used in conjunction with DOE/RL-94-02, *Hanford Emergency Management Response Plan*. Response to events is performed using facility specific and/or site-level emergency procedures.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions  
A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> E. S. Aromi	Reviewed by RL Program Office: <i>R.F.G.</i> R. F. Guercia	Reviewed by Ecology: <i>R.J.J.</i> R. J. Julian	Reviewed by Ecology: <i>L.E.R.</i> L.E. Ruud
Date 1/13/99	Date DEC 27 1999	Date 2/14/00	Date 3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 1.0:

1.2 **Facility Location** Benton County, Washington; within the 200 East Area.

Buildings/facilities covered by this plan are:

- 242-A Building
- 242-AB Building
- 242-A-81 Water Service Building
- 207-A ~~North~~ Retention Basin

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S. Aromi</i>	Reviewed by RL Program Office: <i>R.F. Guercia</i>	Reviewed by Ecology: <i>R. J. Julian</i>	Reviewed by Ecology: <i>L.E. Ruud</i>
Date: 12/13/99	Date: DEC 27 1999	Date: 02/07/00	Date: 3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 1.4:

**1.4 Description of the Facility and Operations**

The 242-A Building is a five-story, concrete structure consisting of a main process area (i.e., pump room, load-out room, evaporator room, condenser room), support system area (i.e., aqueous makeup room, heating ventilation and air conditioning (HVAC) room, etc.), and the adjacent office area (i.e., lunch room, laboratories, offices, etc.). The main process and support system areas are designed and constructed to withstand a 0.25 g horizontal acceleration seismic event, and a 100-mile-per-hour, high wind/tornado.

~~The evaporator room and pump room are posted as high radiation/high contamination/airborne radioactivity areas, with some hot spots inside. The load-out room is posted as a radiological buffer/fixed contamination area with some small contamination areas inside.~~

The 242-AB Building was constructed to house the upgraded 242-A Evaporator monitoring and control system. This building adjoins the 242-A Building and includes the control room (room 18) and electrical room (room 19).

The 207-A North Retention Basins are located east of the 242-A Building, and north of the AP Tank Farm. The Water Service Building (242-A-81) is located directly south of the 242-A Building.

The 242-A Evaporator is connected to Double-Shell Tank (DST) system tanks and valve pits through underground piping that is used for transferring feed and slurry solutions and miscellaneous drainage.

There is a satellite accumulation area located south of the 242-A Building.

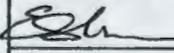
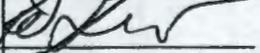
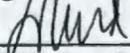
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  12/13/99	Reviewed by RL Program Office: 	Reviewed by Ecology:  2/14/00	Reviewed by Ecology:  3/2/00
E. S. Aromi	R. F. Guercia	R. J. Julian	L.E. Ruud
Date	Date	Date	Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

**Description of Modification:**

Appendix 7A, Section 2.0:

**2.0 PURPOSE**

This plan describes both the facility hazards and the impacts of upset and/or emergency conditions. "Emergency" as used in this document includes events meeting the Washington Administrative Code (WAC) 173-303 definition of Emergency as well as DOE-0232.1, "Occurrence Reporting and Processing of Operations Information," categories of Unusual Occurrence and Emergency. These events include spills or releases, fires and explosions, transportation activities, movement of materials, packaging, storage of hazardous materials, and natural and security contingencies. When used in conjunction with DOE/RL-94-02, *Hanford Site Emergency Response Management Plan*, this plan meets the requirements for contingency planning as required by WAC 173-303.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

**1. General Permit Provisions**

A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L. E. Ruud
Date: 11/13/99	Date: DEC 27 1999	Date: 02/14/00	Date: 3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 3.0.

### 3.0 BUILDING EMERGENCY ORGANIZATION

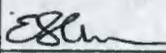
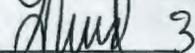
The ~~242A~~ LWPF is staffed 24 hours each day, and is prepared to respond to emergencies through designated personnel with specific primary, on-call and alternate responsibilities. The 242-A Building Emergency Director (BED) directs the emergency response until the Incident Commander arrives at the event scene. The BED is on duty 24 hours each day. The on-duty Shift Operations Manager is the designated primary BED. There is a designated alternate BED on day shift available for directing emergency response if required. Other personnel required as part of the building emergency organization are also on duty with either primary or alternate responsibilities. The following paragraphs describe this organization and the duties of designated personnel.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99 E. S. Aromi Date	 R. E. Guercia Date	 01/07/00 R. J. Julian Date	 3/2/00 L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 3.1.

**3.1 Building Emergency Director**

Emergency response is directed by the Building Emergency Director (BED) until the Incident Commander arrives. The incident command ~~structure~~ **system** and staff with supporting on-call personnel fulfill the responsibilities of the Emergency Coordinator as discussed in WAC 173-303-360.

During events, facility personnel perform response duties under the direction of the BED. The Incident Command Post (ICP) is managed by either the senior Hanford Fire Department member present on the scene or senior Hanford Patrol member present on the scene (security events only). These individuals are designated as the Incident Commander (IC) and as such have the authority to request and obtain any resources necessary for protecting people and the environment. The BED becomes a member of the ICP and functions under the direction of the IC. In this role the BED continues to manage and direct facility operations.

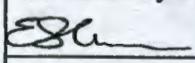
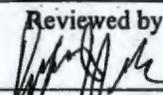
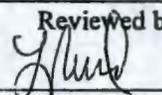
A listing of the primary and alternate BEDs by title, work location, and work telephone numbers is contained in Section 13 of this plan. The BED is on the premises or is available through an "on-call" list 24 hours a day. Emergency Preparedness maintains a listing of BED names and work and home telephone numbers at the Patrol Operations Center (POC) in accordance with *Hanford Facility RCRA Permit*, Dangerous Waste Portion, General Condition II.A.4.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia DEC	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 3.2.

**3.2 Other Members**

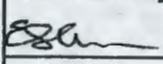
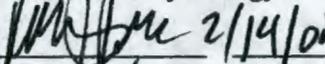
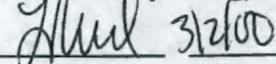
As a minimum, the BED or designee appoints and trains individuals to perform as Personnel Accountability Aides and Staging Area Managers. The accountability aides facilitate the implementation of protective actions (evacuation or take cover) and the accountability of personnel after the protective actions have been implemented. Staging Area Managers coordinate/conduct activities at the staging area. Staging Area Managers and Personnel Accountability Aids are trained annually and are required to participate in two drills per year. In addition, the BED may identify additional support personnel (Radiological Control, Maintenance, Engineering, Hazardous Material Coordinators, etc.) to be part of the building emergency organization. Sections 13.0, ~~BUILDING EMERGENCY ORGANIZATION~~, of this plan discusses the location of information regarding positions, names, and telephone numbers. Copies are distributed to appropriate facility locations and to the Hanford Site Emergency Preparedness organization.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99		 2/14/00	 3/2/00
E. S. Aromi	R. F. Guercia	R. J. Lujan	L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 4.0.

**4.0 IMPLEMENTATION OF THE PLAN**

To meet the requirements of WAC 173-303, this plan will be implemented when the BED has determined that a release, fire, or explosion involving dangerous waste or dangerous waste constituents that could threaten human health or the environment (WAC 173-303-350, Emergencies) has occurred at the facility.

~~An incident requiring evacuation of personnel or the summoning of emergency response units will not necessarily indicate that the plan will be implemented.~~ The incident classification process is described in DOE/RL-94-02, Section 4.20 **ESTD**

Under DOE guidance, this plan will be implemented whenever the BED determines that one of the incidents listed in Section 6.0 of this plan has or will occur and that the severity is or will be such that there is a potential to endanger human health or the environment (~~DOE Unusual Occurrence or Emergency~~).

DOE Declared Emergencies are assigned one of three classifications which in the order of increasing severity are: 1) Alert Emergency, 2) Site Area Emergency, and 3) General Emergency. The 242-A Evaporator implements responses to these DOE emergencies through this plan and criteria identified in DOE-0223, RLEP 1.1, Appendix 1-2.M, and other documents listed in Attachment A of this plan.

The BED assesses each incident to determine the response necessary to protect personnel, the facility, and the environment. If emergency assistance from Hanford Patrol, Hanford Fire Department, or ambulance units is required, the Hanford Emergency Response Number (911) is used to contact the POC and request the desired assistance. To request other resources or assistance from outside the facility, the POC business number is used (373-3800).

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E. S. Aromi</i>	Reviewed by RL Program Office: <i>R. F. Guercia</i>	Reviewed by Ecology: <i>R. J. Galian</i>	Reviewed by Ecology: <i>L. E. Ruud</i>
Date: 12/13/99	Date: DEC 2	Date: 2/14/90	Date: 3/2/00

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 5.0:

**5.0 FACILITY HAZARDS**

~~Facility hazards and potential targets are identified and evaluated in a hazards assessment required by DOE Orders for the 242-A Evaporator. The hazards assessment is not used in the Hanford Facility contingency planning program.~~ This section describes hazards that pose significant risks to human health or the environment and identify quantitative values for those risks.

~~Certain information in this plan pertains only to DOE Order considerations (e.g., discussions pertaining to hazards from hazardous materials and radioactive only materials). Terms such as Emergency Response Protective Guidelines (ERPG), Alert Emergencies, Site Area Emergencies, and General Emergencies pertain only to DOE Order planning considerations. These hazards and terms are not part of the Hanford Facility contingency planning program. The only portion of this section that is part of the Hanford Facility contingency planning program are the chemical constituent hazards discussed in Section 5.3.~~

Modification Class: <sup>123</sup>

Please check one of the Classes:

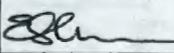
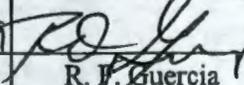
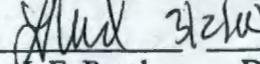
Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RI/Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. I. Guercia	 R. J. Julian	 L.E. Ruud
Date	Date	Date	Date

DEC 27 1999

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 5.1

**5.1 Hazardous Materials**

*2/14/00* *H Hpl 2/14/00*  
~~Potentially hazardous materials at the 242-A Evaporator defined in DOE Order guidance as potentially hazardous~~ are used for normal maintenance and support functions. These could include acids, caustics, oils, diesel fuel and solvents. Diesel fuel also presents a flammability hazard. A significant release of materials would be classed as a WAC 173-303 or DOE Emergency.

~~An ammonia cylinder, capable of releasing 0.34 cubic meters of 5000 part per million (ppm) ammonia, is located on the third floor level in the northeast corner of the HVAC room. The ammonia is used for calibration of the stack ammonia monitor. The worst case ammonia concentration from release of the entire contents of the cylinder would be less than 25 ppm in the HVAC Room. This is less than the ERPG-1 value and the threshold limit value. No emergency planning is required.~~

Material Safety Data Sheets (MSDSs) are at the following locations:

- 2025EA Building:
  - Room 101
  - Room 104
- 2025E Building
  - Maintenance Shop, Room 103
  - Control Room
- 242-A Evaporator Control Room.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:

Reviewed by RL Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

*E.S. Aromi* 12/13/99

*R.F. Guercia*

*R.J. Nolan* 2/14/00

*L.E. Ruud* 3/2/00

E. S. Aromi Date

R. F. Guercia Date

R. J. Nolan Date

L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup>This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup>If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 5.3.3.:

**5.3.3. Gaseous Form**

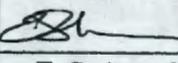
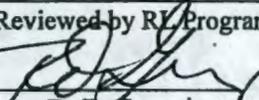
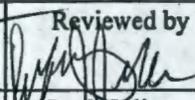
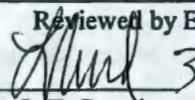
A waste blending error in the DST system potentially could generate large amounts of ammonia gas from the 242-A Evaporator vent system during processing. ~~This could require an emergency classification~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L.E. Ruud
Date: 12/13/99	Date:	Date: 2/14/00	Date: 3/2/00

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 5.5:

**5.5. Criticality**

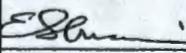
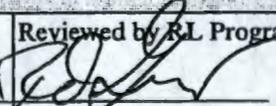
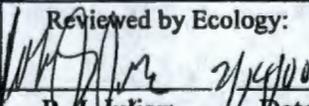
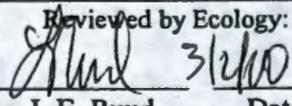
A criticality is not a credible accident at the 242-A Evaporator. ~~Emergency planning is not required.~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L. E. Ruud
Date	Date	Date	Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.0:

**6.0 POTENTIAL EMERGENCY CONDITIONS**

~~The objective of this section is to identify WAC 173-303 and DOE Order potential emergency conditions and to identify the appropriate DOE Order emergency classification level. Protective action responses based on these classifications are discussed in Section 7.0. Technical justification for the values and limits identified in this section are provided in the hazards assessment required by DOE Orders for the 242-A Evaporator. The hazards assessment is not used in the Hanford Facility contingency planning program.~~

Potential emergency conditions fall into under both WAC 173-303 and DOE guidance may include one of three basic categories: operations (process upsets, fires and explosions, loss of utilities, spills, and releases), natural phenomena (earthquakes and storms), and security contingencies (bomb threats, hostage situations). For operational emergencies, event frequency coupled with accident severity provide the criteria for emergency plan response, etc.) The following are conditions that may lead to an emergency situation (WAC or DOE defined) at the 242A Evaporator and require the implementation of this plan:

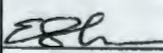
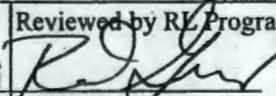
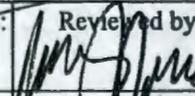
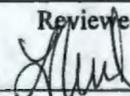
Potential radioactive/dangerous/mixed waste release modes include fires, explosions, spills, or releases. These events are evaluated based on the potential impact to operations and subsequent release of waste materials. Potential consequences to human health or the environment are the ultimate criteria for event classification and protective response actions. Additionally, prolonged small releases are evaluated for their potential to impact human health or the environment.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia DEC 27 1999	Reviewed by Ecology:  R. J. [unclear]	Reviewed by Ecology:  L. E. Ruud
12/13/99 Date	Date	2/14/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1:

**6.1 Operational Emergencies**

The conditions for operational emergencies are present only when mixed waste is present in the vapor-liquid separator, C-A-1, recirculation loop, and ancillary equipment.

Rejected

~~Permitted~~

2/14/00

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>ESA</i> 12/13/99	<i>[Signature]</i>		
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.1.1:

**6.1.1.1 Loss of Electrical Power**

A loss of electrical power could lead to a loss of compressed air, causing the vapor-liquid separator, C-A-1, drain valves to open and suddenly dump the contents to DST system tank 241-AW-102. A potential over pressurization and subsequent radiological release could occur from that tank. Mitigating actions for a radiological release from the DST system are taken by ~~Tank Waste Remediation System (TWRS)~~ per the tank farms ~~building emergency plan~~ procedures.

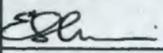
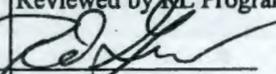
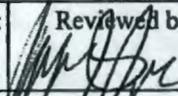
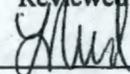
A loss of electrical power would interrupt processing but would not produce an emergency event at the 242-A Evaporator.

Modification Class: <sup>12,3</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by ML Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99	 Date	 2/25/00	 3/2/00
E. S. Aromi	R. F. Guercia DEC 27 1999	R. J. Julian	L. E. Ruud

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.1.2:

**6.1.1.2 Loss of Compressed Air**

A loss of compressed air would cause the vapor-liquid separator, C-A-1, drain valve to open and suddenly dump the contents to DST system tank 241-AW-102. A potential over pressurization and subsequent radiological release could occur from that tank. Mitigating actions for a radiological release from the DST system are taken by TWRS per the tank farms building emergency plan procedures.

A loss of compressed air would interrupt processing but would not produce an emergency event at the 242-A Evaporator.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RI Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>ESA</i> 12/13/99	<i>[Signature]</i>	<i>[Signature]</i> 12/25/00	<i>[Signature]</i> 3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. I. Julian Date	L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.1.3:

**6.1.1.3 Loss of Raw Water**

Raw water can be used as seal water for the mechanical seals on P-B-1 recirculation pump and P-B-2 slurry pump when the normal supply of process condensate is not available. If raw water is supplied to the seals, and loss of raw water occurs, failure of mechanical seals could occur, causing a spray release of mixed waste into the facility. The spray release scenario is discussed in Section 6.1.8. Interlocks are provided to stop the pumps on low seal water flow.

Raw water supplies cooling water to the EC-1, EC-2, and EC-3 condensers. Loss of raw water during facility operation will cause high temperatures in TK-C-100, which will result in a major process upset.

Raw water supplies cooling to the air compressors, with sanitary water available as a backup. If loss of raw water occurs, and backup cooling by sanitary water is not initiated within 15 to 20 minutes, the air compressors could overheat, causing a loss of compressed air. A loss of compressed air is discussed in section 6.1.1.2.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> E. S. Aromi	Date 12/13/95	Reviewed by RI/Program Office: <i>R.F.G.</i> R. F. Guercia	Date DEC 23 1995	Reviewed by Ecology: <i>R.J.J.</i> R. J. Julian	Date 2/14/00	Reviewed by Ecology: <i>L.E.R.</i> L.E. Ruud	Date 3/2/00
---	------------------	--	---------------------	---	-----------------	--	----------------

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.2:

**6.1.2 Major Process Disruption/Loss of Plant Control**

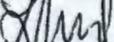
A major process disruption/loss of plant control ~~would~~ can be caused by failure of the Monitor and Control System (MCS) computer. A loss of MCS could cause the vapor-liquid separator, C-A-1, drain valve to open and suddenly dump the contents to DST system tank 241-AW-102. A potential over pressurization and subsequent radiological release could occur from that tank. Mitigating actions for a radiological release from the DST system are taken by TWRS per the tank farms building-emergency plan procedures.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions  
A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Date: 12/13/99	Reviewed by RL Program Office:  R. F. Guercia	Date:	Reviewed by Ecology:  R. Julian	Date: 2/25/00	Reviewed by Ecology:  L.E. Ruud	Date: 3/2/00
---	-------------------	--	-------	---	------------------	--	-----------------

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.4:

**6.1.4 Fire and/or Explosion**

A fire/explosion could generate highly toxic and/or corrosive fumes. Flying debris could result from explosions or compressed gas cylinder failure. Process system disruption, loss of plant control, and breach of process system boundaries could result from the flying debris.

~~An Alert Emergency in accordance with DOE Orders would be declared if mixed waste is present in the vapor-liquid separator, C-A-1, process recirculation loop, and ancillary equipment, and a fire occurs in the control room, aqueous makeup room, HVAC room, condenser room, pump room, or evaporator room lasting longer than 30 minutes and requiring fire department actions for suppression.~~

~~An Alert Emergency in accordance with DOE Orders would be declared if emergency classification should be made per criteria stated in DOE-0223, Emergency Plan Implementing Procedure, Appendix I-2.M~~

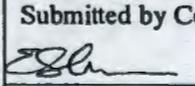
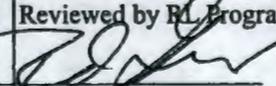
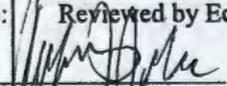
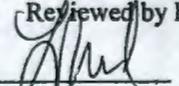
an explosion is confirmed to have occurred at the 242-A Evaporator and the explosion threatens areas containing hazardous chemicals and/or radioactive material. ~~An alert Emergency would also be declared~~  if the explosion breaches the external 242-A Building walls when the vapor-liquid separator contains solution. ~~Emergency classifications are per site wide procedures listed in Attachment A DOE-0223, Emergency Plan Implementing Procedure, Appendix I-2.M~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99		 2/14/00	 3/4/00
E. S. Aromi	R. F. Guercia	R. J. Julian	E.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.5:

**6.1.5 Hazardous Material Spill or Release**

A waste blending error in the DST system potentially could generate large amounts of ammonia gas from the 242-A Evaporator vent system during processing. Ammonia ~~stack~~ releases of more than 5 grams per second (40 pounds per hour) ~~meet Alert Emergency criteria in accordance with DOE Orders. Ammonia and ammonia stack~~ releases of more than 38 grams per second (300 pounds per hour) meet ~~Site Area Emergency emergency~~ criteria ~~in accordance with DOE Orders.~~

~~The bounding consequences for mixed waste releases are radiological in nature. Radiological releases are discussed in Section 6.1.8.~~

~~stated in DOE-0223, Emergency Plan Implementing Procedure, Appendix 1-2.M~~

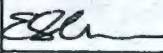
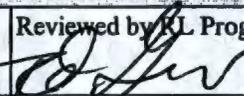
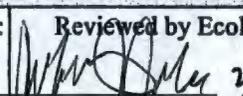
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  12/12/99	Reviewed by RL Program Office: 	Reviewed by Ecology:  2/14/00	Reviewed by Ecology:  3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	L. E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.6:

**6.1.6 Radioactive/Mixed Waste Spill**

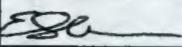
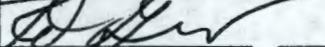
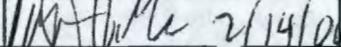
The bounding ~~hazards~~ consequences for mixed waste releases are radiological. Radiological releases are discussed in Section 6.1.8.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by PL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99		 2/14/00	 3/2/00
E. S. Aromi	R. F. Guercia	R. J. Julian	L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.7:

**6.1.7 Transportation and/or Packaging Incidents**

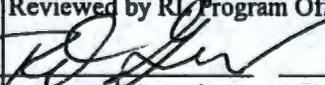
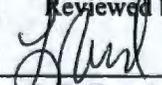
A transportation and/or packaging incident involving hazardous chemicals or samples could result in exposure to hazardous and radioactive materials. Potential environmental damage by their release could also occur. ~~General criteria discussed in Section 5.0 will be used to classify these events.~~

Modification Class: <sup>12,3</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions  
A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RI Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99		 2/14/00	 3/2/00
E. S. Aromi      Date	R. F. Guercia      Date	R. Julian      Date	L.E. Ruud      Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.8.1:

**6.1.8.1 Ventilation System Release**

If a mixed waste release causes K1 ventilation or vessel ventilation system high radiation, it is necessary to quickly assess whether any radioactive material was released. ~~A Cutie Pie (CP) open window (near contact) reading of  $\geq 15$  millirad per hour but  $< 150$  millirad per hour on a ventilation system sample filter, requires an Alert Emergency~~ ~~If there is a release of radioactive material, emergency classification in accordance with DOE Orders. Results  $\geq 150$  mr/hr require a Site Area Emergency classification in accordance with DOE Orders~~ will be made per criteria stated in DOE 0233, Emergency Plan Implementing Procedure, Appendix 1.2.M.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

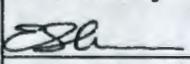
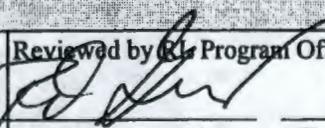
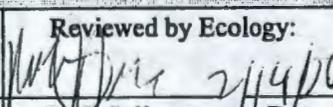
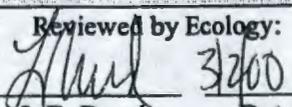
X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RCRA Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L. E. Ruud
12/15/99 Date	 Date	2/14/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.8.2:

**6.1.8.2 Release of Mixed Waste into Facility**

~~An Alert Emergency~~ A catastrophic release of mixed waste into the Pump or Evaporator rooms would necessitate an emergency classification is required for a catastrophic dumping of vapor liquid separator C-A-1 contents into the evaporator room or pump room.

~~A Site Area Emergency Classification is required for a catastrophic dumping of vapor liquid separator C-A-1 contents into the evaporator room or pump room, the K1 vent system high radiation shutdown interlock fails, and the ventilation system fans continue to operate per DOE-0233, Emergency Plan Implementing Procedure, Appendix 1.2.M~~

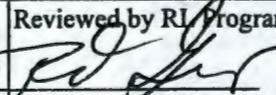
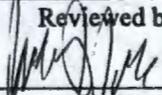
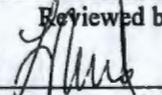
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Date 12/15/99	Reviewed by RI Program Office:  R. F. Guercia	Date DEC 27 1999	Reviewed by Ecology:  R. J. Julian	Date 2/14/00	Reviewed by Ecology:  L.E. Ruud	Date 3/2/00
---	------------------	--	---------------------	--	-----------------	--	----------------

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator.

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.8.3:

**6.1.8.3 Loss of Confinement**

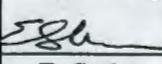
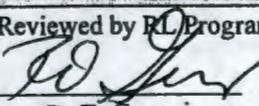
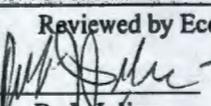
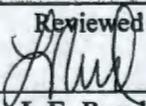
~~An Alert Emergency is required for a loss of confinement in the 242-A Building, as indicated by activation of two or more Area Radiation Monitors in the AMU and HVAC room, or Continuous Air Monitor alarm in the survey area, and local confirmation [on two of the three contamination area pressure indicators for rooms A, B, or C (located on the HVAC panel)] that pressure is greater than 0.0 inches water gauge occurs, along with a loss of negative pressure in radiation areas, emergency classification will be made per DOE-0233, Emergency Plan Implementing Procedure, Appendix 1-2.M~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/15/99	 Date	 2/19/00	 3/2/00
E. S. Aromi	R. F. Guercia	R. J. Julian	L.E. Ruud
Date	Date	Date	Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.1.9:

**6.1.9 Criticality**

A criticality is not a credible accident at the 242-A Evaporator. ~~Emergency planning is not required.~~

Modification Class: <sup>123</sup>

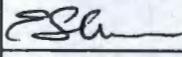
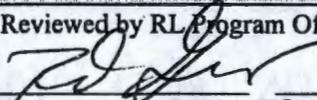
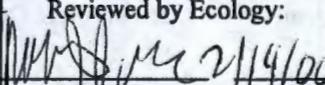
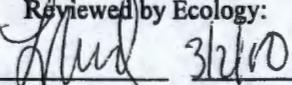
Please check one of the Classes:

Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guerrero	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L.E. Ruud
12/13/99 Date	DEC 27 1999 Date	2/14/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2:

**6.2 Natural Phenomena**

~~The conditions for a Natural phenomena emergencies are present only when mixed waste is present in the vapor liquid separator, C-A 1, recirculation loop, and ancillary equipment are discussed in the following sections.~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions  
A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>E.S.A.</i> 12/13/99	<i>R.F. Guercia</i>	<i>R.J. Julian</i> 2/14/00	<i>L.E. Ruud</i> 3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.1:

**6.2.1 Seismic Event**

Depending on the magnitude of the seismic event, severe structural damage could occur at the 242-A Evaporator, resulting in serious injuries or fatalities and the release of hazardous or radioactive materials to the environment. Damaged electrical circuits and wiring could result in the initiation of fires. Any seismic event that is felt by personnel, with some minor facility damage, and disturbance of tall objects at the 242-A Evaporator locations that house hazardous chemicals and/or radioactive materials requires classification as an Alert per DOE--0223, Emergency Plan Implementing Procedure, Appendix 1-2.M. An emergency classification upgrade could occur based on facility conditions and/or actual hazardous material or radioactive/dangerous/mixed waste releases determined by personnel assessing quake damage.

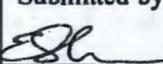
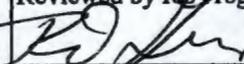
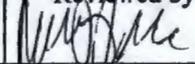
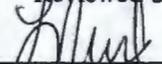
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RC Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L.E. Ruud
12/13/91 Date	Date	2/14/00 Date	3/4/00 Date

DEC 29 1991

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.2:

**6.2.2 Ashfall/Snow Fall Roof Overloading**

Ash or snow accumulation causing actual roof or other structural damage to buildings containing hazardous material or radioactive/dangerous/mixed waste ~~is classified as an Alert Emergency~~ requires classification per DOE-0223, *Emergency Plan Implementing Procedure Appendix 1-2 M*. There should be ample warning of an approaching large ashfall to allow the facilities to be placed in a stable condition.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

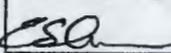
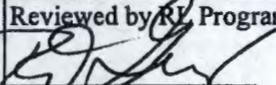
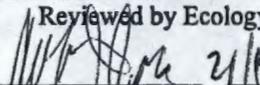
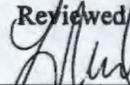
X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L.E. Ruud
12/13/99 Date	DEC 27 1999 Date	2/14/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.3:

**6.2.3 High Winds/Tornados**

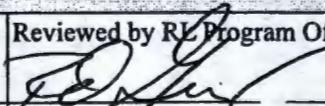
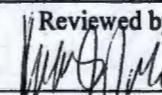
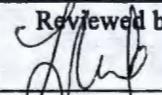
An Alert Emergency classification is suggested w When sustained wind speeds in excess of 40 meters per second (90 miles per hour) are observed and cause degradation of the facility safety equipment/confinement barriers, emergency classification is made per DOE-0223, Emergency Plan Implementing Procedure, Appendix 1-2.M. An emergency classification upgrade could occur based on actual facility damage or release of hazardous materials,

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L. E. Ruud
12/13/99 Date	Date	2/14/00 Date	Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.4:

**6.2.4 Flood**

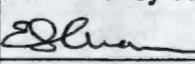
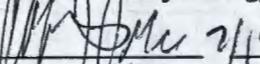
A flood is not a credible accident at 242-A Evaporator because the facility is not within the Columbia River flood plain. ~~Emergency planning is not required.~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RI Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/13/99		 2/14/00	
E. S. Aromi      Date	R. F. Guercia      Date	R. J. Julian      Date	L.E. Ruud      Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.5:

**6.2.5 Range Fire**

~~An Alert Emergency is suggested in the event that a range fire threatens any 242-A Evaporator building containing hazardous material or radioactive/dangerous/mixed waste.~~ emergency classification is made per DOE-0223, Emergency Plan Implementing Procedure, Appendix 1-2.M

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by PL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>ESA</i> E. S. Aromi	<i>[Signature]</i> R. F. Guercia	<i>[Signature]</i> R. J. Julian	<i>[Signature]</i> E.E. Ruud
11/13/99 Date	DEC 27 1999 Date	2/14/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.2.6:

**6.2.6 Aircraft Crash**

A Site Area Emergency classification is suggested if an aircraft crash occurs into or near the 242-A Evaporator. ~~emergency classification is made per DOE-0223, Emergency Plan Implementing Procedure Appendix 1.2.M.~~ An emergency classification upgrade could occur based on actual facility damage or release of hazardous material or radioactive/dangerous/mixed waste.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

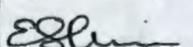
A. Administrative and Informational changes.

Submitted by Co-Operator:

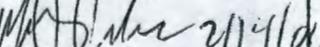
Reviewed by RL Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

 12/13/94

 Date

 2/1/00 Date

 3/1/00 Date

E. S. Aromi

Date

R. F. Guercia

Date

R. J. Julian

Date

L. E. Ruud

Date

DEC 27 1994

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.3.1:

**6.3.1 Bomb Threat/Suspicious Object**

~~An Alert~~ Bomb threats may pose a fire or explosion hazard. Fire or explosion from a bomb could lead to the release of hazardous constituents or materials and exposure and bodily harm to personnel. Emergency classification is required if there is a credible bomb threat or a confirmed explosive device located in the 242 A Building rooms housing hazardous chemicals and/or radioactive material. ~~will be made per DOE 0223 Emergency Plan Implementing Procedure, Appendix 1.2 M.~~ If the device explodes, classification of the event will be performed as stated in Section 6.1.4.

Modification Class: <sup>123</sup>

Please check one of the Classes:

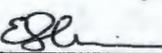
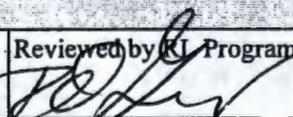
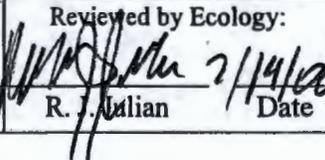
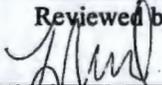
Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RI Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L. E. Ruud
Date 12/17/99	Date	Date 2/14/00	Date 3/2/00

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 6.3.2:

**6.3.2 Hostage Situation/Armed Intruder**

A hostage situation or armed intruder(s) at the 242-A Evaporator requires an Alert Emergency results in emergency classification per DOE-0223 Emergency Plan Implementing Procedure Appendix 2.M. An emergency classification upgrade could occur based on actual facility damage or release of hazardous material or radioactive/dangerous/mixed waste.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
12/15/99	DEC 27 1999	2/14/00	2/24/00
E. S. Aromi      Date	R. F. Guerci      Date	R. J. Julian      Date	L.E. Ruud      Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.0:

**7.0 INCIDENT RESPONSE**

The initial response to any emergency is to immediately protect the health and safety of persons in the immediate area. Identification of released material is essential to determine appropriate protective actions. Containment, ~~event notifications~~, treatment, and disposal assessment are secondary responses.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

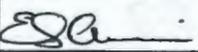
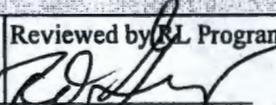
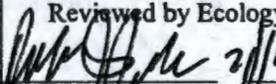
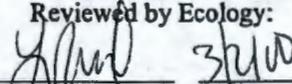
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Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercjau	 R. J. Julian	 L. E. Ruud
12/13/99 Date	 Date	2/1/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

**Description of Modification:**

Appendix 7A, Section 7.1.2:

**7.2 Response to Operational Emergencies**

Operational activities to isolate, contain, and mitigate the event can be performed in parallel with classification and protective action implementation. The responses are structured to allow parallel activity with clearly established priorities. The division of actions and workload between various personnel is such that coordinated team responses result in the successful implementation of both emergency operating actions and emergency planning requirements. Specific event mitigation strategy for each type of accident is provided in the following sections.

*Rejected*  
*[Signature]*  
2/19/00

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:

Reviewed by RL Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

*[Signature]* 12/13/99

*[Signature]*

*[Signature]*

*[Signature]*

E. S. Aromi Date

R. F. Guercia Date

R. J. Julian Date

L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.1.1:

**7.2.1.1 Loss of Electrical Power**

Should there be a loss of electrical power to the 242-A Evaporator, all personnel are evacuated from radiation areas due to the potential loss of radiation monitoring equipment (i.e., continuous air monitors, area radiation monitors). In addition, all non-essential personnel leave the facility. Access into the radiation and adjacent areas is restricted to response personnel who are properly clothed and equipped. Radiation monitoring by radiological control personnel is established, and facility operations are properly shutdown to a safe configuration.

If back-up power is not automatically placed in service, the diesel powered standby generator is manually placed in service. Operation of the Backup K1 Ventilation system exhaust fan is checked and, if not operating, actions are taken to start the fan ~~K1-5-2~~, ~~to restart the normal fan,~~ or to secure the confinement area. If an exhaust fan is operating, verification is made that the exhaust stack radiation monitor is returned to service.

If the evaporator is in operation mode and a dump of C-A-1 vessel does occur, AW Tank Farm personnel are notified of impending pressurization of DST system tank 241-AW-102., ~~and all personnel in the AW Tank Farm evacuate to the change trailer.~~ The 200 East Area Tank Farms Shift Manager is notified of the event as is the 242-A Evaporator plant management.

All implementing actions executed by the aides/managers are directed by the emergency response procedures in Attachment A.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>1

Class 2

Class 3

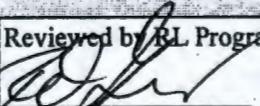
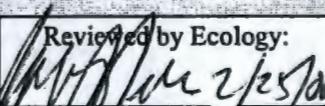
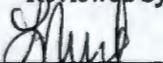
X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. Julian	Reviewed by Ecology:  L. E. Ruud
12/13/99 Date	Date	2/25/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup>This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup>If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

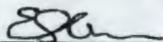
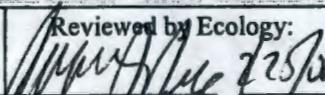
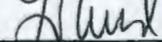
Description of Modification:

Appendix 7A, Section 7.2.1.2.:

**7.2.1.2. Loss of Compressed Air**

Upon loss of the compressed air at the 242-A Evaporator, restoration of the air supply system is immediately attempted. If this fails, non-essential personnel are notified to exit the facility. Automatic dumping of the C-A-1 vessel is stopped; the vessel could dump later when air pressure that holds the drain valve fails open. If a dump of C-A-1 vessel does occur, AW Tank Farm personnel are notified of impending pressurization of DST system tank 241-AW-102<sup>1</sup>, and all personnel in the AW Tank Farm evacuate to the change trailer.

Plant conditions are monitored as components fail and shutdown interlocks activate, and the facility is placed into a safe shutdown condition. The K1 ventilation system is monitored for potential failure due to loss of damper control (caused by loss of air supply), and plant management is notified of the facility condition. A backup air compressor is placed in service as soon as possible.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			
Relevant WAC 173-303-830, Appendix I Modification: A.1.				
<u>Enter wording of the modification from WAC 173-303-830, Appendix I citation</u>				
1. General Permit Provisions				
A. Administrative and Informational changes.				
Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:	
 12/13/99	DEC 27 1999 	 2/25/00	 3/2/00	
E. S. Aromi      Date	R. F. Guercia      Date	R. J. Julian      Date	L.E. Ruud      Date	

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.1.3.:

**7.2.1.3. Loss of Raw Water**

On loss of the raw water system, 242-A Evaporator personnel are immediately notified, and non-essential personnel are directed to leave the facility. Essential personnel are directed to the 242-A Evaporator control room for support as required. The P-B-1 and P-B-2 pumps are shutdown to prevent damage to the mechanical seals. If seal water is being supplied by the process condensate system, pump operation may continue through a controlled shutdown. The compressors are placed on sanitary water cooling. If air compressor failure occurs due to loss of cooling water, the automatic dumping of the C-A-1 vessel is terminated; the vessel could dump later when air pressure that holds the drain valve fails open. If a dump of C-A-1 vessel does occur, AW Tank Farm personnel are notified of impending over-pressurization of DST system tank 241-AW-102, ~~and all personnel in the AW Tank Farm evacuate to the change trailer.~~ The 200 East Area Tank Farms Shift Manager is notified of the facility condition.

Facility operations are properly shutdown, and plant management is notified of the facility condition.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> 12/13/99	Reviewed by RL Program Office: <i>R.F.G.</i>	Reviewed by Ecology: <i>R.J.J.</i>	Reviewed by Ecology: <i>L.E.R.</i>
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	L.E. Ruud Date

DEC. 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.1.5.:

**7.2.1.5. Loss of K1 Ventilation System**

On loss of the K1 ventilation system, restoration of the primary or backup K1 ventilation exhaust fan is immediately attempted. If the K1 ventilation system cannot be restored immediately, personnel are notified to exit contaminated areas, and non-essential personnel are directed to exit the facility. Essential personnel report to the 242-A control room for support as required. Continued adequate contamination control is ensured by having the K2 ventilation system operating. The K2 ventilation system maintains positive pressure in non-contaminated areas. If the primary and backup K1 ventilation system exhaust fans are not running, actions are taken to shutdown the facility and ~~tape up contamination area entrances~~ restrict access to contamination areas. Plant management is notified of facility conditions.

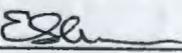
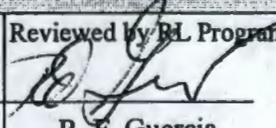
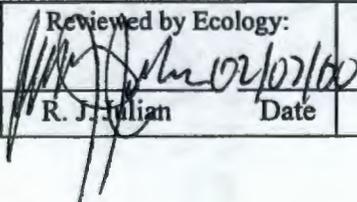
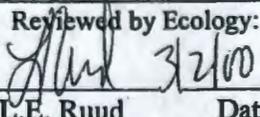
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L.E. Ruud
12/13/99 Date	Date	02/07/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.2.:

**7.2.2. Major Process Disruption/Loss of Plant Control**

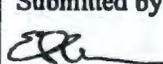
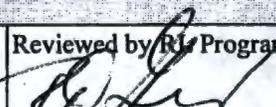
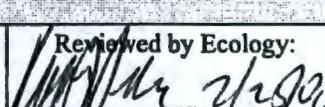
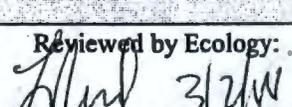
Upon loss of the MCS, the 242-A Evaporator Shift Operations Manager is notified while an attempt is made to return the MCS to service. If a dump of C-A-1 vessel does occur, AW Tank Farm personnel are notified of impending over-pressurization of DST system tank 241-AW-102, ~~and all personnel in the AW Tank Farm evacuate to the change trailer.~~ Non-essential personnel exit the 242-A Evaporator facility.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by R1 Program Office:  R. F. Guercia	Reviewed by Ecology:  R. Julian	Reviewed by Ecology:  L.E. Ruud
Date 12/18/99	Date	Date 2/2/00	Date 3/2/00

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

# Hanford Facility RCRA Permit Modification Notification Form

**Unit:**  
242-A Evaporator

**Permit Part & Chapter:**  
Part III, Chapter 5 and Attachment 35

**Description of Modification:**

Appendix 7A, Section 7.2.4.:

**7.2.4. Fire and/or Explosion**

On becoming aware of a fire and/or explosion, the discoverer notifies personnel (if any) in the immediate area and directs them to a safe location. The discoverer then activates the nearest fire alarm pull station, contacts 911 to request fire fighting assistance, and contacts the 242-A Evaporator control room to report the fire. As soon as non-essential personnel are notified of a fire (verbally or by fire alarm activation), they immediately exit the facility to a safe upwind location, account for their personnel, and follow the instructions of responding personnel. If personnel are reported as missing, and might be within the facility, the Hanford Fire Department conducts a search.

The BED is notified and initiates activation of the incident event command post and resources.

Operations personnel initiate a plant shutdown with the method (controlled or emergency) depending on the location and severity of the fire and the location and type of hazards in the affected area. A controlled shutdown is performed unless it is unsafe to remain in the control room. An emergency shutdown is performed if the control room must be evacuated. The Shift Operations Manager Building Emergency Director interfaces with the Hanford Fire Department and provides the following:

- a. Location and health of personnel, including missing personnel and possible locations for fire fighters to search.
- b. Location and severity of fire.
- c. Known hazardous (radiological and nonradiological) conditions.
- d. Facility operating status.
- e. Utility systems status.
- f. Support by radiological control personnel (i.e., monitoring, surveys, sampling, decontamination).
- g. Facility layout, and facility known hazardous conditions, (i.e., electrical, thermal, flammable materials, pressurized cylinders, toxic gas, pressure systems, batteries, radiation areas, etc.).
- h. Support for fire fighter activities as required.

Once the fire is extinguished, the Shift Operations Manager/BED ensures administrative restrictions are implemented to protect the facility, the workers, and the environment. The Shift Operations Manager/BED makes notifications as required and assists with recovery actions.

*MS  
2/14/00*

~~On incidents requiring evacuation of personnel or the shutdown of all ongoing operations, the necessary information is the only that has been implemented.~~

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>E.S.A.</i> 12/13/99	<i>R.F.G.</i>	<i>R.J.J.</i> 04/14/00	<i>E.E.R.</i> 3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. J. Julian Date	E.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
**242-A Evaporator**

Permit Part & Chapter:  
**Part III, Chapter 5 and Attachment 35**

Description of Modification:

Appendix 7A, Section 7.2.5.:

**7.2.5. Hazardous Material, Dangerous and/or Mixed Waste Spills or Releases**

~~The 242A Evaporator has engineering controls to contain or minimize spills. These controls include containment berms, dedicated spill control sumps, remote gauges and level indicators as well as spray shields on chemical pipe flanges. The 242A Evaporator procedures provide alarm response and maintenance actions for leak detection equipment, surveillance of possible leak locations, and response actions for detected spills.~~

~~Spills can result from many sources, including process leaks, container spills or leaks, damaged packages, or shipments, or personnel error. Spills of mixed waste are complicated by the need to deal with the extra hazard induced by the presence of radioactive materials.~~

If a spill or release is discovered, the discoverer performs the following actions:

1. Notifies the 242-A Evaporator control room and evacuates to a safe area
2. Remains available for consultation with the BED, Hanford Fire Department, or other emergency response personnel.

The control room operator performs the following actions:

1. Uses the public address system to notify the facility occupants of the event
2. Notifies the BED/HFD and relays information received from the event scene
3. Places the facility in a safe condition
4. Remains available to support further notification and response activities

The BED performs or arranges for personnel to perform the following actions:

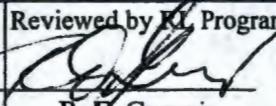
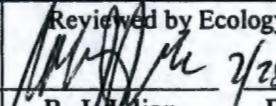
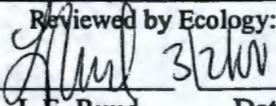
1. Coordinates response activity and establishes a command post at a safe location
2. Obtains all available information pertaining to the incident and determines if the spill or release warrants implementation of the contingency plan in accordance with Sections 4.0, 6.1.5, and 6.1.8. In the case of ammonia releases, described in Section 6.1.5, this information includes monitoring stack ammonia concentrations.
3. Determines need for assistance from outside agencies and arranges for their mobilization and response
4. Initiates the appropriate announcements, if building or area evacuations are necessary
5. Arranges for care of any injured persons
6. Requests activation of the affected area emergency sirens/crash alarm system if a threat to surrounding facilities
7. Provides for event notification
8. Maintains access control at the incident site by keeping unauthorized personnel and vehicles away from the area. Security personnel can be used to assist in site control if control of the boundary is difficult. In determining controlled access areas, considers environmental factors such as wind speed and direction
9. Arranges for proper remediation of the incident after evaluation
10. Remains available for HFD, Hanford Patrol, and other authorities on the scene and provide all required information
11. Enlists the assistance of alternate BED(s), if around-the-clock work is anticipated
12. ~~Refers media inquiries to the Media Relations/Communications office of the contractors or DOE RL.~~
13. Ensures the use of proper protective equipment, remedial techniques (including ignition source control for flammable spills), and decontamination procedures by all involved personnel, if remediation is performed by 242-A Evaporator personnel
14. Remains at the ~~event~~ ~~incident~~ command post to oversee activities and to provide information, if remediation is performed by the HFD Hazardous Materials Response Team or other response teams
15. Ensures proper containerization, packaging, and labeling of recovered spill materials and overpack containers
16. Ensures decontamination (or restocking) and restoration of emergency equipment used in the spill remediation before resuming operations
17. Provides required reports after the incident.

Modification Class: <sup>12 3</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Reviewed by RL Program Office:  R. F. Guercia	Reviewed by Ecology:  R. J. Julian	Reviewed by Ecology:  L.E. Ruud
12/13/97 Date	Date	2/28/00 Date	3/20/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.6.2.:

**7.2.6.2. Release of Mixed Waste into Facility**

If a catastrophic dumping of mixed waste from vapor-liquid separator C-A-1 occurs, the facility is immediately shutdown. AW Tank Farm personnel are notified of impending over-pressurization of DST system tank 241-AW-102, and all personnel in the AW Tank Farm evacuate to the change trailer. The 200 East Area Tank Farms Shift Manager is notified of facility condition. The actions in Section 7.2.5 are then performed.

If a catastrophic dumping of the vapor-liquid separator causes high radiation alarm on the K1 ventilation system, the actions described in Section 7.2.6.1 are performed.

Modification Class: <sup>12 3</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> 12/13/99 E. S. Aromi Date	Reviewed by RL Program Office: <i>R.F. Guercia</i> R. F. Guercia Date	Reviewed by Ecology: <i>R.J. Julian</i> R. J. Julian Date	Reviewed by Ecology: <i>L.E. Ruud</i> L.E. Ruud Date
---	---	---	--

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.2.7:

**7.2.7 Criticality**

A criticality is not a credible accident at the 242-A Evaporator. ~~Emergency planning is not required.~~

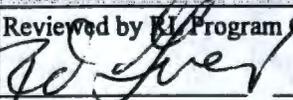
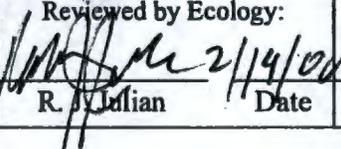
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:  E. S. Aromi	Date 12/19/99	Reviewed by RI Program Office:  R. F. Guercia	Date	Reviewed by Ecology:  R. Julian	Date 2/14/00	Reviewed by Ecology:  L.E. Ruud	Date 3/26/00
---	------------------	--	------	---	-----------------	--	-----------------

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.4.1.:

**7.4.1. Seismic Event**

The Hanford Site emergency response organization's primary role in a seismic event is coordinating the initial response to injuries, fires, and fire hazards, and acting to contain or control radioactive and/or hazardous material releases.

Individuals should remain calm and stay away from windows, steam lines, and hazardous material storage locations. Once the shaking has subsided, individuals evacuate carefully and assist personnel needing help. The locations of any trapped individuals are reported to the BED or are reported to 911 or 373-3800.

The BED takes whatever actions are necessary to minimize damage and personnel injuries, including:

- Coordinating searches for personnel and potential hazardous conditions (fires, spills, etc.),
- Conducting personnel accountability,
- Securing utilities and facility operations,
- Arranging for rescue efforts, and notifying 911 or 373-3800 for assistance,
- Determining if hazardous materials were released,
- Determining current local meteorological conditions,
- Warning other facilities and implementing protective actions if release of hazardous materials poses a danger,
- Providing personnel and resource assistance to other facilities.

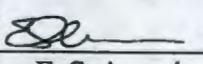
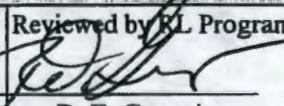
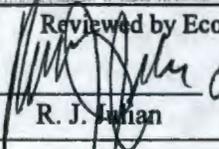
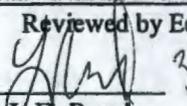
Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 E. S. Aromi	 R. F. Guercia	 R. J. Julian	 L.E. Ruud
Date	Date	Date	Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.4.4.:

**7.4.4 Flood**

Flooding of the 242-A Evaporator is not credible. ~~No emergency planning response is required.~~

Modification Class: <sup>123</sup>

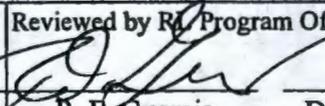
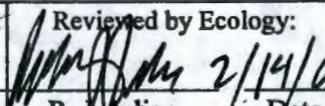
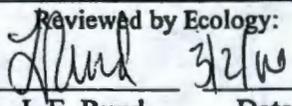
Please check one of the Classes:

Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RA/Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 12/15/89	 DEC 27 1989	 2/14/01	 3/2/00
E. S. Aromi	R. F. Guercia	R. J. Julian	L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 7.5.3:

**7.5.3 Suspicious Object**

The discoverer of a suspicious object reports it to the BED and to the POC via 911 or 373-3080, 373-3800 and, if possible, ensures that the object is not disturbed.

The BED orders evacuation of the facility and (based on the description provided by the discoverer) attempts to determine the identity or owner of the object. This may be done by questioning facility personnel at the staging area.

If the identity/ownership of the object cannot be determined, then Security assumes command of the incident. The canine unit is used to determine if the package contains explosives. If there is a positive indication of explosives or it cannot be assured that there are no explosives, then the Richland Police Department's Emergency Ordinance Disposal Team is dispatched to the facility to properly dispose of the device.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> E. S. Aromi	Reviewed by RI Program Office: <i>[Signature]</i> R. F. Guercia	Reviewed by Ecology: <i>[Signature]</i> R. J. Julian	Reviewed by Ecology: <i>[Signature]</i> L.E. Ruud
12/13/99 Date	Date	04/01/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 8.0:

**8.0 TERMINATION OF EVENT, INCIDENT RECOVERY, AND RESTART OF OPERATIONS**

The DOE/RL-94-02, *Hanford Emergency Response Management Plan*, Section 8.0, describes these considerations. The extent by which these actions are employed is based upon the incident classification of each event. In addition, DOE/RL-94-02 contains considerations for the management of incompatible wastes, which may apply.

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

**1. General Permit Provisions**

**A. Administrative and Informational changes.**

Submitted by Co-Operator:

Reviewed by RC Program Office:

Reviewed by Ecology:

Reviewed by Ecology:

*E.S.A.* 12/13/99  
E. S. Aromi Date

*R.F.G.*  
R. F. Guercia Date

*R.J.J.* 2/14/00  
R. J. Julian Date

*L.E.R.* 3/2/00  
L.E. Ruud Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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# Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 8.2:

**8.2 Incident Recovery and Restart of Operations**

A recovery plan is developed when necessary. A recovery plan is needed following an event where further risk could be introduced to personnel, the facility, or the environment through recovery action and/or to maximize the preservation of evidence. Depending on the magnitude of the event and the effort required to recover from the event, recovery planning may involve personnel from DOE-RL and other contractors. If a recovery plan is required, it is reviewed by appropriate personnel and approved by a Recovery Manager before restart. Restart of operations is performed in accordance with the approved plan.

If this plan is to be implemented for a WAC emergency (see Section 4.0), the Washington State Department of Ecology is notified before operations can resume. The DOE/RL-94-02, *Hanford Emergency Response Management Plan*, Section 6.1 discusses different reports to outside agencies. This notification is in addition to other required reports and includes information documenting the following conditions:

1. There are no incompatibility issues with the waste and released materials from the incident.
2. All the equipment has been clean, fit for its intended use, and placed back into service. The notification may be made via telephone conference. Additional information that Ecology requests regarding these restart conditions will be included in the required 15-day report identified in WAC 173-303-360(2)(k).

For emergencies not involving activation of the RL-EOC, the BED ensures that conditions are restored to normal before operations are resumed. If the Hanford Site Emergency Organization was activated and the emergency phase is complete, a special recovery organization could be appointed at the discretion of DOE-RL to restore conditions to normal. This process is detailed in DOE-RL and contractor emergency procedures. The makeup of this organization depends on the extent of the damage and its effects. The onsite recovery organization is appointed by the appropriate contractor's management.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> 12/18/99	Reviewed by RL Program Office: <i>R.F.G.</i>	Reviewed by Ecology: <i>R.J.J.</i> 2/14/01	Reviewed by Ecology: <i>L.E.R.</i> 3/2/01
E. S. Aromi      Date	R. F. Guercia      Date	R. J. Jehan      Date	L.E. Ruud      Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 8.3:

**8.3 Incompatible Waste**

After an event, the BED or the onsite recovery organization ensures that no waste that might be incompatible with the released material is treated, stored, and/or disposed of until cleanup is completed. Cleanup actions are taken by facility personnel or other assigned personnel. DOE/RL-94-02, Section 8.3<sup>2</sup> describes actions to be taken.

Waste from cleanup activities is designated and managed as newly generated waste. A field check for compatibility before storage is performed as necessary. Incompatible wastes are not placed in the same container. Containers of waste are placed in storage areas appropriate for their compatibility class.

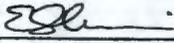
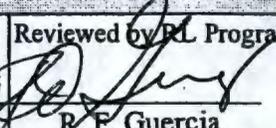
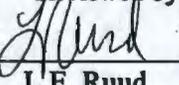
If incompatibility of wastes was a factor in the incident, the BED or the onsite recovery organization ensures that the cause is corrected.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
 2/13/99	 DEC 27 1999	 2/14/00	 3/14/00
E. S. Aromi	R. F. Guercia	R. J. Julian	L.E. Ruud
Date	Date	Date	Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 9.3.:

**9.3 Communications Equipment/Warning Systems**

**COMMUNICATIONS EQUIPMENT**

TYPE	LOCATION	CAPABILITY
Fire alarms	Located throughout the facility in halls, corridors, and locker rooms.	Audible throughout the 242-A Evaporator Building
Roof siren	242-A Evaporator roof	Provide warning to personnel to take cover or evacuate.
Operations process alarms (from MCS or hard wired alarm panels)	242-A Evaporator control room	Audible in the 242-A Evaporator control room.
Public address system (PAX)	Located throughout the 242-A Evaporator Building (except in pump and evaporator rooms)	Provides communications and public address capabilities.
Portable Radios	242-A control room	Communication to the 242-A control room.
Telephone	242-A control room, office area's, AMU room, and condenser room.	Internal and external communications. Allows notification of outside resources (HFD, Hanford Patrol, etc.)
Crash alarm	242-A control room	Audible in the 242-A control room

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S.A.</i> E. S. Aromi	Reviewed by BL Program Office: <i>R.F.G.</i> R. F. Guercia	Reviewed by Ecology: <i>R.J.J.</i> R. J. Julian	Reviewed by Ecology: <i>L.E.R.</i> L.E. Ruud
12/13/99 Date	Date	02/07/00 Date	3/2/00 Date

DEC 27 1999

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 11.0:

**11.0 REQUIRED REPORTS**

Post incident, written reports are required for certain incidents on the Hanford Site. The reports are described in DOE/RL-94-02, Section 6-15.1.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup>	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

- 1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator:	Reviewed by RL Program Office:	Reviewed by Ecology:	Reviewed by Ecology:
<i>E. S. Aromi</i> 12/12/99	<i>R. F. Guercia</i> DEC 27 1999	<i>R. Julian</i> 2/14/00	<i>L.E. Ruud</i> 3/2/00
E. S. Aromi Date	R. F. Guercia Date	R. Julian Date	L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>1, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 13.0.:

**13.0 BUILDING EMERGENCY ORGANIZATION**

BED	TITLE	WORK LOCATION	WORK PHONE
Primary	Shift Operation Manager (SOM)	242-A Evaporator control room or 200 Area Effluent Treatment Facility Control Room	373-2737, Evap control room 373-4446, Evap shift office 373-0993, ETF shift office 373-9000, ETF control room
Alternate	BED Qualified Shift Technical Authority Operations Manager	2025E 2025EA Building, Room 101	372-0000 373-4565

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1

Class<sup>1</sup>

Class 2

Class 3

X

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator:

Reviewed by RCRA Program Officer:

Reviewed by Ecology:

Reviewed by Ecology:

*E.S.A.* 1/13/95

*R.F.G.* DEC 27 1999

*R.J.J.* 2/14/00

*L.E.R.* 3/21/00

E. S. Aromi Date

R. F. Guercia Date

R. J. Julian Date

L.E. Ruud Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

<sup>3</sup> If the proposed modification does not match any modification listed in WAC 173-303-830 Appendix I, then the proposed modification should automatically be given a Class 3 status. This status may be maintained by the Department of Ecology, or down graded to <sup>1</sup>1, if appropriate.

## Hanford Facility RCRA Permit Modification Notification Form

Unit:  
242-A Evaporator

Permit Part & Chapter:  
Part III, Chapter 5 and Attachment 35

Description of Modification:

Appendix 7A, Section 14.0:

14.0 REFERENCES

~~DOE 0223, Emergency Plan Implementing Procedures:~~

~~DOE 0232~~ ~~DOE-232.1~~, "Occurrence Reporting and Processing of Operations Information", U.S. Department of Energy, Washington D.C.

DOE/RL-94-02, Hanford Site Emergency Response Plan

~~DOE Order 5500.1B, Emergency Management Systems Plan~~

WAC 173-303, "Dangerous Waste Regulations," Washington Administrative Code, Washington State Department of Ecology, Olympia, Washington.

29 CFR 1910.120, Hazardous Waste Operations and Emergency Response

NIOSH, Pocket Guide to Chemical Hazards, National Institute of Occupational Safety and Health, U.S. Department of Health and Human Resources, Public Health Service, Centers for Disease Control, Washington, D.C.

984  
2/14/00  
Start

984  
2/14/00

MDA  
2/14/00

Emergency Management Plan  
Comprehensive Emergency Management System

Modification Class: <sup>123</sup>

Please check one of the Classes:

Class 1	Class <sup>1</sup>	Class 2	Class 3
X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions

A. Administrative and Informational changes.

Submitted by Co-Operator: <i>E.S. Aromi</i> E. S. Aromi	Reviewed by RI Program Office: <i>R.F. Guercia</i> R. F. Guercia	Reviewed by Ecology: <i>R. J. Julian</i> R. J. Julian	Reviewed by Ecology: <i>L.E. Ruud</i> L.E. Ruud
12/13/99 Date	DEC 27 1999 Date	2/14/00 Date	3/2/00 Date

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

<sup>2</sup> This is only an advanced notification of an intended Class <sup>1</sup>, 2, or 3 modification, this should be followed with a formal modification request, and consequently implement the required Public Involvement processes when required.

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# Hanford Facility RCRA Permit Modification Notification Form

**Unit:**  
**242-A Evaporator**

**Permit Part & Chapter:**  
**Part III, Chapter 5 and Attachment 35**

**Description of Modification:**  
**Appendix 7A, Attachment A:**

**ATTACHMENT A**  
**Listing of Procedures and Guides**

Site-Wide Procedures

DOE-0223, *Emergency Plan Implementing Procedures:*

- RLEP-1.1, "Hanford Incident Command System and Event Recognition and Classification," Appendix 1-2.M;
- RLEP-3.4, "Emergency Termination, Reentry, and Recovery."

Facility-Specific Emergency Response Procedures and Guides

HNF-IP-1053, *242-A Evaporator Response Manual*  
(includes the ERGs and PCPs listed below)

Emergency Response Guides

- ERG No. 1 - Evacuation
- ERG No. 2 - Take Cover
- ERG No. 3 - Volcanic Eruption and Ashfall
- ERG No. 4 - Seismic Event
- ERG No. 5 - Fire and/or Explosion
- ERG No. 6 - High Area Radiation
- ERG No. 7 - Bomb Threat

Plant Casualty Plans

- PCP No. 1 - Emergency Shutdown of Utility Systems
- PCP No. 2 - Loss of Electrical Power
- PCP No. 3 - Loss of the Raw Water System
- PCP No. 4 - Loss of the K-1 Ventilation System
- PCP No. 5 - Loss of the Steam System
- PCP No. 6 - Loss of Compressed Air System
- PCP No. 7 - Loss of MCS Control
- PCP No. 8 - Pressure Hazard
- PCP No. 9 - Process Upset

- TO-685-001 Emergency Shutdown of Utility Support Systems
- TO-685-002 242A Evaporator Loss of Electrical Power
- TO-685-003 242A Evaporator Loss of Raw Water System
- TO-685-004 242A Evaporator Loss of K-1 Ventilation Systems
- TO-685-005 242A Evaporator Loss of Steam Systems
- TO-685-006 242A Evaporator Loss of Compressed Air System
- TO-685-007 242A Evaporator Loss of MCS Control
- TO-685-008 242A Evaporator Pressure Hazards
- TO-685-009 Process Upset
- EP-685-010 242A Evaporator Evacuation
- EP-685-020 242A Evaporator Take Cover
- EP-685-030 242A Evaporator Volcanic Eruption and Ashfall
- EP-685-040 242A Evaporator Seismic Event
- EP-685-050 242A Evaporator Fire and/or Explosion
- EP-685-060 242A Evaporator High Radiation Area
- EP-685-070 242A Evaporator Bomb Threat
- EP-685-080 242A Natural Emergency/Security Contingency Event

Modification Class: <sup>1,2,3</sup>	Class 1	Class 1	Class 2	Class 3
Please check one of the Classes:	X			

Relevant WAC 173-303-830, Appendix I Modification: A.1.

Enter wording of the modification from WAC 173-303-830, Appendix I citation

1. General Permit Provisions
  - A. Administrative and Informational changes.

Submitted by Co-Operator: <i>SOE</i> E. S. Aromi	Reviewed by RI Program Office: <i>R. R. Guercia</i> R. R. Guercia	Reviewed by Ecology: <i>R. J. [Signature]</i> R. J. [Signature]	Reviewed by Ecology: <i>L.E. Ruud</i> L.E. Ruud
Date	Date	Date	Date

DEC 2011

<sup>1</sup>Class 1 modifications requiring prior Agency approval.

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