



STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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

June 3, 2002

**RECEIVED**  
JUN 04 2002  
**EDMC**

Mr. Joel Hebdon, Director  
Regulatory Compliance and Analysis Division  
P.O. Box 550, MSIN: A5-58  
Richland, Washington 99352

Dear Mr. Hebdon:

Re: Quarterly Notification of Class 1 Modifications to the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion, (Quarter ending March 31, 2002)

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.

The approved quarterly modifications include:

**325 Hazardous Waste Treatment Units**

Section 4.1.4.1

Hanford Facility RCRA Permit, III. 6.A

**305-B Storage Facility**

Hanford Facility RCRA Permit, III. 2.A

Table 3-1

Section 4.1.1.2

Section 4.1.1.6.4

Section 4.1.1.6.5.a

Section 4.1.1.6.7

Figure 4-6

Figure 4-7

Section 6.2.1.1

**Hanford Emergency Management Plan**

Section 14.0, Subsection 14.3.7

Appendix A, Page 5 of 6

**242-A Evaporator**

RCRA Permit, Condition III.5.A,

Appendix 4A, Table 4A-1

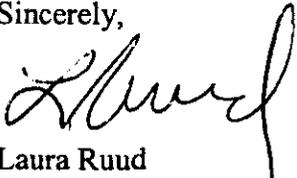
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Mr. Joel Hebdon  
June 3, 2002  
Page 2

RCRA Permit, Condition III.4.A  
Appendix 4A, Table 4A-2  
Appendix 4B, Table 4B-1  
Appendix 4A, Table 4B-2  
**300 Area Waste Acid Treatment System**  
RCRA Permit, Table of Contents  
RCRA Permit, Part V, Ch 20  
RCRA Permit, List of Attachments  
300 Area WATS Part A, Form 3, Comment  
Block  
300 Area WATS Part A, Form 3, Section III.C  
300 Area WATS Part A, Form 3, Figure  
300 Area WATS Part A, Form 3, Photographs  
300 Area WATS Part A, Form 3, Photographs  
311 Tanks Part A, Form 3, Comment Block

Again, United States Department of Energy and contractor staff are encouraged to discuss proposed Class 1 changes with Ecology's Unit Managers to clarify any questions and/or concerns. If you have any questions or comments regarding this letter, please contact me at (509) 736-5715 or Jean Vanni at (509) 736-3046.

Sincerely,



Laura Ruud  
Permitting Specialist  
Nuclear Waste Program

LR:JV:nc  
Enclosures

cc/enclosure: Roger Landon, BHI  
Richard Gurske, FH  
Suzette Thompson, FH  
Roby Enge, PNL  
Alice Ikenberry, PNL  
Stuart Harris, CTUIR  
Russell Jim, YIN  
Pat Sobotta, NPT  
HF Operating Record  
Environmental Portal, LMSI  
Administrative Record

cc: Doug Sherwood, EPA  
Thomas Logan, BHI  
Ken Niles, OOE

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

Page 1 of 10

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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:

Hanford Facility RCRA Permit, Condition III.2.A:

III.2.A. COMPLIANCE WITH APPROVED PERMIT APPLICATION

The Permittees shall comply with all the requirements set forth in Attachment 18, including all Class 1 Modifications specified below, and the Amendments specified in Condition III.2.B. Enforceable portions of the application are listed below; all subsections, figures, and tables included in these portions are also enforceable, unless stated otherwise:

Section 1.0	Part A, Form 3, Permit Application, from Class 1 Modification for quarter ending December 31, 2001
Section 2.1.2	The 305-B Storage Unit, from Class 1 Modification for quarter ending March 31, 2001
Section 2.2.1	General Requirement from Class 1 Modification for quarter ending March 31, 2001
Section 2.5	Performance Standard, from Class 1 Modification for quarter ending March 31, 2001
Section 2.6	Buffer Monitoring Zones, from Class 1 Modification for quarter ending March 31, 2001
Section 2.8	Manifest System, from Class 1 Modification for quarter ending March 31, 2001
Chapter 3.0	Waste Characteristics, from Class 1 Modification for quarter ending <del>December 31, 2001</del>
Chapter 4.0	Process Information, from Class 1 Modification for quarter ending <del>December 31, 2000</del>
Chapter 6.0	Procedures to Prevent Hazards, from Class 1 Modification for quarter ending <del>March 31, 2001</del>
Chapter 7.0	Building Emergency Procedure, from Class 1 Modification for quarter ending June 30, 2001
Chapter 8.0	Personnel Training, from Class 1 Modification for quarter ending September 30, 2001
Chapter 11.0	Closure and Post-Closure Requirements, from Class 1 Modification for quarter ending September 30, 2000
Chapter 12.0	Reporting and Recordkeeping, from Class 1 Modification for quarter ending June 30, 1999
Section 13.8	Toxic Substances Control Act, from Class 1 Modification for quarter ending September 30, 2000
Section 13.9	Other Requirements, from Class 1 Modification for quarter ending September 30, 2000
Appendix 2A	Hanford Site and 300-Area Topographic Maps, Plates 2-2 Through 2-9, from Class 1 Modification for quarter ending June 30, 2001

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: <i>A.K. Ikenberry</i> for <i>3-15-02</i>	Reviewed by RL Program Office: <i>R.F. Christensen</i> <i>4/1/02</i>	Reviewed by Ecology: <i>F. Jamison</i> <i>5/28/02</i>	Reviewed by Ecology: <i>L.E. Ruud</i> <i>5/28/02</i>
A.K. Ikenberry Date	R.F. Christensen Date	F. Jamison 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: <b>305-B Storage Facility</b>		Permit Part & Chapter: <b>Part III, Chapter 2 and Attachment 18</b>			
<u>Description of Modification:</u> Chapter 3.0, Table 3-1: <b>Table 3-1. Summary of Test Parameters, Rationales, and Methods</b>					
Parameter <sup>a</sup>	Method <sup>b</sup>	Rationale for Selection			
<b>Physical Screening</b>					
Visual inspection	Field method - observe phases, presence of solids in waste	Ensure that waste matches that described on waste acceptance documentation; identify waste prohibited by LDR requirements related to downstream TSD unit acceptance criteria			
<b>Chemical Screening</b>					
Water miscibility/separable organics	Water mix screen ██████████	Ensure that waste matches that described on waste acceptance documentation; identify separable organics; identify waste prohibited by LDR requirements related to downstream TSD unit acceptance criteria			
Water reactivity	Water mix screen ██████████	Ensure that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)			
pH	pH screen ██████████	Ensure that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)			
Cyanides	Cyanide screen ██████████	Ensure that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)			
Sulfides	Sulfide screen ██████████	Ensure that waste matches that described on waste acceptance documentation; ensure compliance with WAC 173-303-395(1)(b)			
<b>Pre-Shipment Review</b>					
Mercury (total)	Generator knowledge or SW-846 Method 7470/7471	Identify waste prohibited by LDR requirements related to downstream TSD unit acceptance criteria.			
Toxicity characteristic organic compounds	Generator knowledge or SW-846 Methods 1311 and 8260 (volatile organic compounds) and 8270 (semivolatile organic compounds)	Identify waste not identified on the Part A, Form 3			
Polycyclic aromatic hydrocarbons	Generator knowledge or SW-846 Method 8270 or 8100	Identify waste not identified on the Part A, Form 3 (for waste with >1% solids and for which WP03 could apply)			
<sup>a</sup> Addition parameters can be used on current waste acceptance criteria of the downstream TSD unit. Operation limits transfer/shipments are based on current waste acceptance criteria.					
<sup>b</sup> Procedures based on EPA SW-846, unless otherwise noted. When regulations require a specific method, the method shall be followed. ██████████					
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.					
<u>Enter wording of the modification from WAC 173-303-830, Appendix I citation</u>					
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> for 3-15-02	<i>R.F. Christensen</i> 4/1/02	<i>F. Jamison</i> 5/28/02	<i>L.E. Ruud</i> 5/28/02		
A.K. Ikenberry	R.F. Christensen	F. Jamison	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:  
**305-B Storage Facility**

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

Description of Modification:

Chapter 4.0, Section 4.1.1.2:

**4.1.1.2 Container Management Practices [D-1a(2)]**

Management practices and procedures for containers of dangerous waste are in place at the 305-B Storage Facility to assure the safe receipt, handling, preparation for transport, and transportation of waste. These practices and procedures are summarized below.

Inspection of Containers. A system of daily, weekly, monthly, and yearly inspections is in place to ensure container integrity, check for proper storage location, prevent capacity overrun, etc. These inspection procedures are detailed in Section 6.2.

Container Handling. All unit staff is instructed in proper container handling safeguards as part of their training (refer to Section 8.1.2 for further details). For example, employees are instructed to open all high-vapor-pressure liquids in the flammable liquid bulking module to avoid buildup of vapors in the unit. Containers are always kept closed except when adding or removing waste, in accordance with WAC 173-303-630(5)(a).

Containers are not opened, handled or stored in a manner that would cause the container to leak or rupture. Small containers (five gallons or less capacity) are stored on ~~ventilated~~ shelving or in approved flammable liquid storage lockers (if appropriate). Containers over five gallons capacity are stored on the floor of the appropriate storage cell, in cabinets, or stored in the appropriate containment area on the high bay floor under Section 4.3.2. Unnecessary handling not required for redistribution or preparation for transport and disposal by either labpacking or bulking is minimized. Crane or chain hoist, or forklift moves drums manually. For manual movement, hand trucks specifically designed for drum handling are used. Crane and chain hoist operations are performed ~~using a choker chain or drum hoist~~. When using the forklift, a drum hoist is used or the drums are carried on pallets. Drums are never carried on the forks or "speared" by slipping the forks under the chime. When waste handling operations are conducted, a minimum of two persons is present in the unit.

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> 3-15-02	Reviewed by RL Program Office: <i>R.F. Christensen</i> 4/1/02	Reviewed by Ecology: <i>F. Jamison</i> 4/2/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/28/02
A.K. Ikenberry Date	R.F. Christensen Date	F. Jamison 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:  
305-B Storage Facility

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

Description of Modification:

Chapter 4.0, Section 4.1.1.6.4:

**4.1.1.6.4 Flammable Cell.** The flammable-cell (cell 4) is located south of the alkaline, Washington State Criteria waste, and non-regulated waste cell. As with the other three cells described above, this cell is constructed of epoxy-painted concrete block walls 4 feet high and incorporates a 1 foot deep sump along its west end. The secondary containment volume of the individual sump for this cell is 119 gallons, and total containment volume of the cell is 687 gallons. A diagram of this cell is provided in Figure 4-4.

Ignitable organic waste materials are stored in this cell that also exhibits the characteristics of corrosivity, toxicity as well as reactivity. Three Factory Mutual-approved flammable liquid storage cabinets are utilized for storage of various classes of flammable liquids as defined by the UFC. The capacities of the various cabinets are shown in Table 4-2. The following cabinets also are used for storage in this cell: one for combustibles, one for aerosols, two for flammable solids, and one for overflow from one of the other cabinets.

Total ignitable Waste Storage capacity of the 305-B Storage Facility highbay, including the organics cell, Cell 5, Ignitable drum storage area, and highbay storage area is limited by the following UBC restrictions for Class B occupancy:

- Class 1A flammable liquids: 120 gallons
- Class 1B flammable liquids: 240 gallons
- Class 1C flammable liquids: 360 gallons
- Maximum Class 1A, 1B, and 1C at any one time: 480 gallons
- Maximum Class 1A, 1B and 1C stored in Cell 8 self contained storage module for flammable liquids is 240 gallons
- Class 2 combustible liquids: 480 gallons
- Class 3A combustible liquids: 1320 gallons
- Combustible fibers, loose: 100 cubic feet
- Combustible fibers, baled: 1000 cubic feet
- Flammable gases in any one cylinder: 3000 cubic feet
- Liquefied flammable gases: 60 gallons

~~To maintain required aisle spaces and functional usability, the liquid capacity of the organics cell (cell 4) is set at 1000 gallons.~~

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: <i>A.K. Ikenberry</i> 6/ 3-15-02	Reviewed by RL Program Office: <i>R.F. Christensen</i> 4/1/02	Reviewed by Ecology: <i>F. Jamison</i> 5/28/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/28/02
A.K. Ikenberry	R.F. Christensen	F. Jamison	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:  
305-B Storage Facility

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

Description of Modification:

Chapter 4.0, Section 4.1.1.6.5.a:

**4.1.1.6.5.a. Flammable Liquids Storage Module.** The flammable liquid storage module is a self-contained storage module (cell 8) that allows additional storage space for flammable waste. [REDACTED] is located [REDACTED] on the southeast wall, it [REDACTED] is connected to the buildings fire suppression system. The flammable [REDACTED] storage module has a 2-hour fire rated containment system so that according to the UFC, an unlimited capacity is allowed. However, the flammable waste storage capacity of the flammable liquid storage module is limited by the 240-gallon capacity of the module's secondary containment system. No more than 240 gallon of any combination of flammable liquid classes will be stored in the module. This flammable waste storage capacity is in addition to the flammable storage limits for the highbay. A diagram showing the module location in the highbay is provided in Figure 4-7.

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: A.K. Ikenberry Date	Reviewed by RL Program Office: R.F. Christensen Date	Reviewed by Ecology: F. Jamison Date	Reviewed by Ecology: L.E. Ruud Date
for 3-15-02	4/1/02	4/1/02	5/28/02

<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 4.0, Section 4.1.1.6.7:

**4.1.1.6.7 Oxidizer Waste Drum [REDACTED] Storage Area.** A second section of the high bay (cell 12) has been dedicated to storage of drum quantities of oxidizer [REDACTED] waste before offsite shipment. The area is 10ft x 7ft in size. [REDACTED] Waste drums stored in this area is stored on pallets to prevent contact with spilled waste in the event of an incident.

Sump containment capacity in this area is approximately 55 gallons and total containment capacity is approximately 255 gallons. Maximum storage in this area will be eight 55-gallon drums. A diagram of this area is included in Figure 4-6.

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.				
<u>Enter wording of the modification from WAC 173-303-830, Appendix I citation</u>				
A. General Permit Provisions				
1. Administrative and Informational changes				
Submitted by Co-Operator: <i>McConnell</i> for 3-15-02	Reviewed by RL Program Office: <i>R.F. Christensen</i> 4/1/02	Reviewed by Ecology: <i>F. Jamison</i> 4/20/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/28/02	
A.K. Ikenberry Date	R.F. Christensen Date	F. Jamison 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.

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**Hanford Facility RCRA Permit Modification Notification Form**

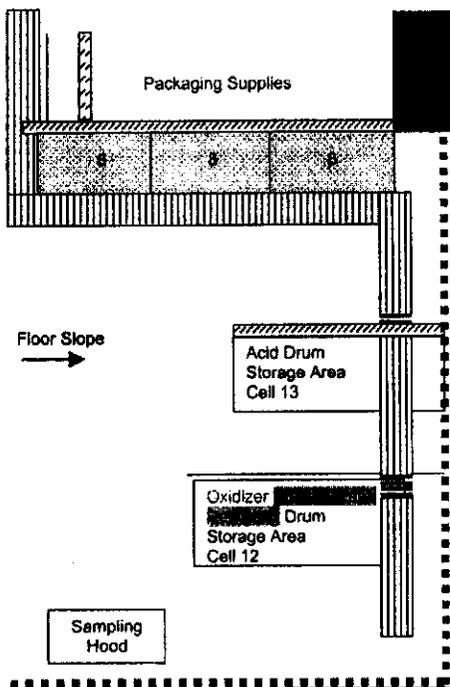
Unit:  
**305-B Storage Facility**

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

Description of Modification:

Chapter 4.0, Figure 4-6:

Figure 4-6. Segregated High Bay Drum Storage Areas



- Legend 1 cm = 60 cm
- Secondary Containment Trench
  - Palletized Drum Storage
  - Sump Blockages (exopy coated concrete)
  - 360.68cm L x 317.5cm W x 121.92cm H stainless steel splash wall
  - Concrete Ledge
  - Concrete Curb
  - Large Drum Cabinet
  - 313.69cm L x 8.89cm W x 15.24cm H epoxy coated angle iron sealed to the floor

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: <i>A.K. Ikenberry</i> 3-15-02	Reviewed by RL Program Office: <i>R.F. Christensen</i> 4/1/02	Reviewed by Ecology: <i>F. Jamison</i> 5/28/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/28/02
A.K. Ikenberry Date	R.F. Christensen Date	F. Jamison Date	L.E. Ruud Date

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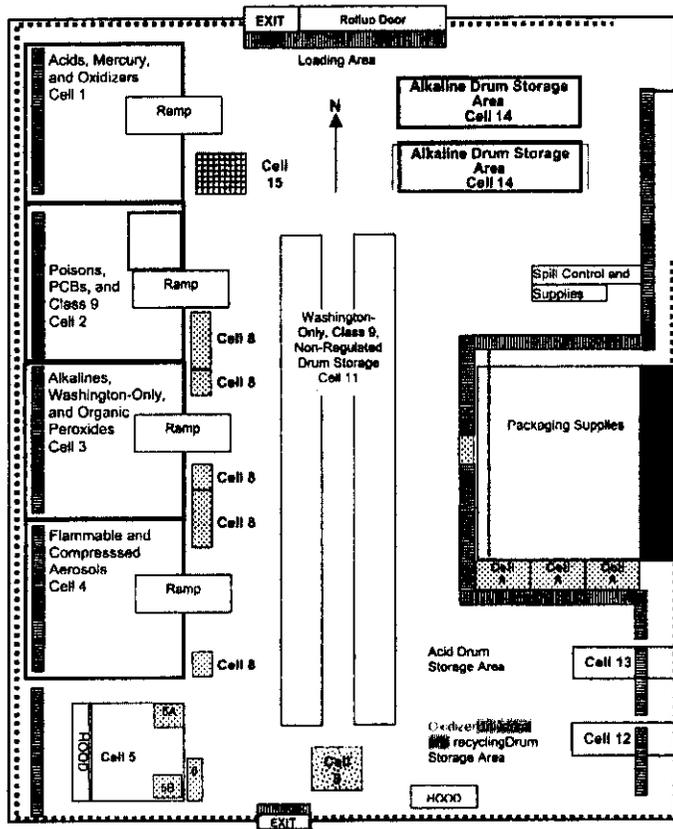
**Hanford Facility RCRA Permit Modification Notification Form**

Unit:  
**305-B Storage Facility**

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

Description of Modification:  
Chapter 4.0, Figure 4-7:

**Figure 4-7. High Bay Storage Area  
(Page 1 of 2)**



Legend: On next page

Scale: 1cm = 120 cm

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
	X			

Please check one of the Classes:

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> for <i>3-15-02</i>	Reviewed by RL Program Office: <i>R.F. Christensen</i> 4/1/02	Reviewed by Ecology: <i>F. Jamison</i> 4/2/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/28/02
A.K. Ikenberry	R.F. Christensen	F. Jamison	L.E. Ruud
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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 6.0, Section 6.2.1.1:

**Quarterly, Once Every Four Months, and Annual Inspections.** In addition to the several layers of management inspection of 305-B Storage Facility, safety inspections are performed to assure the fire protection system, eye wash/shower unit, and walk-in hood ventilation systems are in working order. The Hanford 300 Area Fire Department performs "once every four months" a inspection of fire suppressant and notification systems (i.e., sprinkler system and pull boxes). This inspection includes flow tests of the sprinklers to assure no blockage in the system lines as well as activation of the alarm system to assure proper operation of pull boxes. On an annual basis, the Fire Department performs a full inspection of the sprinkler system, heat detectors, and pull boxes. A complete flow test is performed from the furthest valve to assure flow through.

the entire system. Fire extinguishers are also checked for proper pressure and function. Records of these fire inspections and the Hanford Fire Department keeps their results. Documentation of any required corrective actions is kept in the 305-B Storage Facility Operating Record.

PNNL facilities support staff perform additional documented inspections of the two emergency eye wash/shower units, and the walk-in hood airflow. The safety showers and airflow of the walk-in hood are inspected quarterly. The emergency eyewash/safety showers are checked for proper operation, and the walk-in hood ventilation face velocity must meet a ~~125 fpm~~ minimum requirement<sup>1</sup>. Records of these safety equipment inspections and their results, as well as documentation of any required corrective actions, are maintained by the preventive maintenance staff in PNNL's Facilities Management Department and Technical Services Department.

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> for 3-15-02	<i>R.F. Christensen</i> 4/1/02	<i>F. Jamison</i> 4/20/02	<i>L.E. Ruud</i> 3/28/02
A.K. Ikenberry	R.F. Christensen	F. Jamison	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.

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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**

Page 1 of 5

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Page 2 of 5: Hanford Facility RCRA Permit, Condition III.4.A  
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Page 4 of 5: Appendix 4B, Table 4B-1  
Page 5 of 5: Appendix 4B, Table 4B-2

**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:

Hanford Facility RCRA Permit, Condition III.4.A:

**III.4.A COMPLIANCE WITH APPROVED PERMIT APPLICATION**

The Permittees shall comply with all requirements set forth in Attachment 34, including the Amendments specified in Condition III.4.B, if any exist. Enforceable portions of the application are listed below (All subsections, figures, and tables included in these portions are also enforceable, unless stated otherwise):

LERF Part A, Form 3, Permit Application, Revision 6

ETF Part A, Form 3, Permit Application, Revision 3

- Section 2.2      Topographic Map, non-enforceable sections in Chapter 2 were modified in Class 1 Modification for quarter ending March 31, 2001
- Section 3.2      Waste Analysis Plan, from Class 1 Modification for quarter ending March 31, 2001
- Chapter 4.0      Process Information, from Class 1 Modification for quarter ending September 30, 2001
- Chapter 5.0      Ground Water Monitoring, from Class 1 Modification for quarter ending June 30, 2000
- Chapter 6.0      Procedures to Prevent Hazards, from Class 1 Modification for quarter ending September 30, 2000
- Chapter 7.0      Contingency Plan, from Class 1 Modification for quarter ending September 30, 2000
- Chapter 8.0      Personnel Training, from Class 1 Modification for quarter ending September 30, 2001
- Chapter 11.0      Closure and Financial Assurance, from Class 1 Modification for quarter ending March 31, 2001
- Chapter 12.0      Reporting and Recordkeeping, from Class 1 Modification for quarter ending March 31, 2001
- Chapter 13.0      Other Federal and State Laws, from Class 1 Modification for quarter ending March 31, 2001
- Appendix 2A      Topographic Map
- Appendix 3A      Waste Analysis Plan for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility, from Class 1 Modification for quarter ending March 31, 2001
- Appendix 4A      Detailed Drawings for the Liquid Effluent Retention Facility, from Class 1 Modification for quarter ending March 31, 2001
- Appendix 4B      Detailed Drawings for the 200 area Effluent Treatment Facility Container Storage Area and Tank Systems, from Class 1 Modification for quarter ending March 31, 2001
- Appendix 5A      Liquid Effluent Retention Facility Final Ground Water Monitoring Plan, PNNL-11620, See Amendment III.4.B.c.
- Appendix 7A      Building Emergency Plan for the Liquid Effluent Retention Facility and 200 Area Effluent Treatment Facility, from Class 2 Modification, dated February 2001. Enforceable portions include Sections 1.5, 3.1, 4.0, 7.1, 7.1.1, 7.1.2, 7.2, 7.2.1, 7.2.2, 7.2.3, 7.2.4, 7.2.5, 7.2.5.1, 7.3, 8.2, 8.3, 8.4, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 11.0, 12.0, and 13.0.

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>J. A. Van Vliet</i> 3/22/02	<i>G. H. Sanders</i> 4/2/02	<i>F. Jamison</i> 05/07/02	<i>L.E. Ruud</i> 5-20-02
J. A. Van Vliet      Date	G. H. Sanders      Date	F. Jamison      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:**

Appendix 4A, Table 4A-2:

**Table 4A-2. Liquid Effluent Retention Facility Piping and Instrumentation.**

LERF System	Drawing Number	Outstanding ECNs	Drawing Title
Transfer Piping to 242-A Evaporator	H-2-79604, Sh 1, Rev. 3	ECN-648330	Piping Plot and Key Plans; 242-A Evaporator Condensate Stream (Sheet 1)
LERF Piping and Instrumentation	H-2-88766, Sh 1, Rev. 36	ECN-648330 ECN-656789 <del>ECN-658353</del>	P&ID; LERF Basin and ETF Influent (Sheet 1)
LERF Piping and Instrumentation	H-2-88766, Sh 2, Rev. 57	ECN-647209L ECN-648330 <del>ECN-658353</del>	P&ID; LERF Basin and ETF Influent (Sheet 2)
LERF Piping and Instrumentation	H-2-88766, Sh 3, Rev. 68	ECN-648330 ECN-709380L <del>ECN-658353</del>	P&ID; LERF Basin and ETF Influent (Sheet 3)
LERF Piping and Instrumentation	H-2-88766, Sh 4, Rev. 69	ECN-648330 ECN-658584 <del>ECN-658353</del>	P&ID; LERF Basin and ETF Influent (Sheet 4)
	H-2-89351, Sh 1, Rev. 7	None <del>HNF-FMP-01-9507-RD</del>	Piping & Instrumentation Diagram - Legend

P&ID - piping and instrumentation diagram.

Modification Class: <sup>123</sup>	Class 1	Class <sup>1</sup> 1	Class 2	Class 3
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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>J. A. Van Vliet</i>	Reviewed by RL Program Office: <i>G. H. Sanders</i>	Reviewed by Ecology: <i>F. Jamison</i>	Reviewed by Ecology: <i>L. E. Ruud</i>
Date: 3/22/02	Date: 4/2/02	Date: 3/27/02	Date: May 5-20-02

<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:

Appendix 4B, Table 4B-1:

Table 4B-1. Drawing of Effluent Treatment Facility and Load-In Station Secondary Containment Systems

ETF Process Unit	Drawing Number	Outstanding ECNs	Drawing Title
Surge Tank, Process/Container Storage Areas and Trenches - Foundation and Containment	H-2-89063, Sh. 1, Rev. 3	ECN-647892	STRUCT - Foundation and Grade Beam Plan (Sheet 1)
Sump Tank Containment	H-2-89065, Sh. 1, Rev. 3	None	STRUCT - Foundation, Sections and Detail (Sheet 1)
Verification Tank Foundation and Containment	H-2-89068, Sh. 1, Rev. 3	ECN-647892	STRUCT - Verification Tank Foundation (Sheet 1)
Load-In Facility Foundation and Containment	H-2-817970, Sh. 1, Rev. 1	ECN-641703 ECN-647247 ECN-649104	Structural - ETF Truck Load-in Facility Plans and Sections (Sheet 1)
Load-In Facility Foundation and Containment	H-2-817970, Sh. 2, Rev. 1	ECN-641703 ECN-649104	Structural - ETF Truck Load-in Facility Sections and Details (Sheet 2)

P&ID - piping and instrumentation diagram.

STRUCT - architectural/structural diagram.

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: <i>J. A. Van Vliet</i> 3/12/02	Reviewed by RL Program Office: <i>G. H. Sanders</i> 4/2/02	Reviewed by Ecology: <i>F. Jamison</i> 5/1/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
J. A. Van Vliet Date	G. H. Sanders Date	F. Jamison 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: <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. 12	None <del>ECN-668555</del>	P&ID - ETF Truck Load-In Facility (Sheet 1)
Load-In Facility	H-2-817974, Sh. 2, Rev. 0	None	P&ID - ETF Truck Load-In Facility (Sheet 2)
Surge Tank	H-2-89337, Sh. 1, Rev. 13	ECN-644244	P&ID - Surge Tank System (Sheet 1)
UV/Oxidation	H-2-88976, Sh. 1, Rev. 9 <del>10</del>	ECN-647245 <del>None</del>	P&ID - UV Oxidizer Part 1 (Sheet 1)
UV/Oxidation	H-2-89342, Sh. 1, Rev. 7 <del>8</del>	ECN-647245 <del>None</del>	P&ID - UV Oxidizer Part 2 (Sheet 1)
Reverse Osmosis	H-2-88980, Sh. 1, Rev. 10	None <del>ECN-662200</del>	P&ID - 1st RO Stage (Sheet 1)
Reverse Osmosis	H-2-88982, Sh. 1, Rev. 12	None <del>ECN-662200</del>	P&ID - 2nd RO Stage (Sheet 1)
IX/Polishers	H-2-88983, Sh. 1, Rev. 41 <del>42</del>	ECN-642800 <del>ECN-662200</del>	P&ID - Polisher (Sheet 1)
Verification Tanks	H-2-88985, Sh. 1, Rev. 9	None	P&ID - Verification Tank System (Sheet 1)
ETF Evaporator	H-2-89335, Sh. 1, Rev. 14 <del>15</del>	ECN-641719 ECN-653080L ECN-651583 <del>ECN-662200</del>	P&ID - Evaporator (Sheet 1)
Thin Film Dryer	H-2-88989, Sh. 1, Rev. 17 <del>20</del>	ECN-648765 ECN-656781L <del>ECN-654781L</del> <del>ECN-664331 HNF-DMF-01-9632-R0</del>	P&ID - Thin Film Dryer (Sheet 1)
Transfer Piping from LERF to ETF	H-2-88768, Sh. 1, Rev. 1	None	Piping Plan/Profile 4"- 60M-002-M17 and 3"-60M-001-M17 (Sheet 1)
Transfer Piping from Load-In Facility to ETF	H-2-817969, Sh. 1, Rev. 1	ECN-W291-015 ECN-641703 ECN-649104	Civil - ETF Truck Load-In Facility Site Plan (Sheet 1)

P&ID - piping and instrumentation diagram.  
STRUCT - architectural/structural diagram.

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>J. A. Van Vliet</i>	Reviewed by RL Program Office: <i>G. H. Sanders</i> 4/2/02	Reviewed by Ecology: <i>F. Jamison</i> 05/07/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
J. A. Van Vliet	G. H. Sanders	F. Jamison	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.

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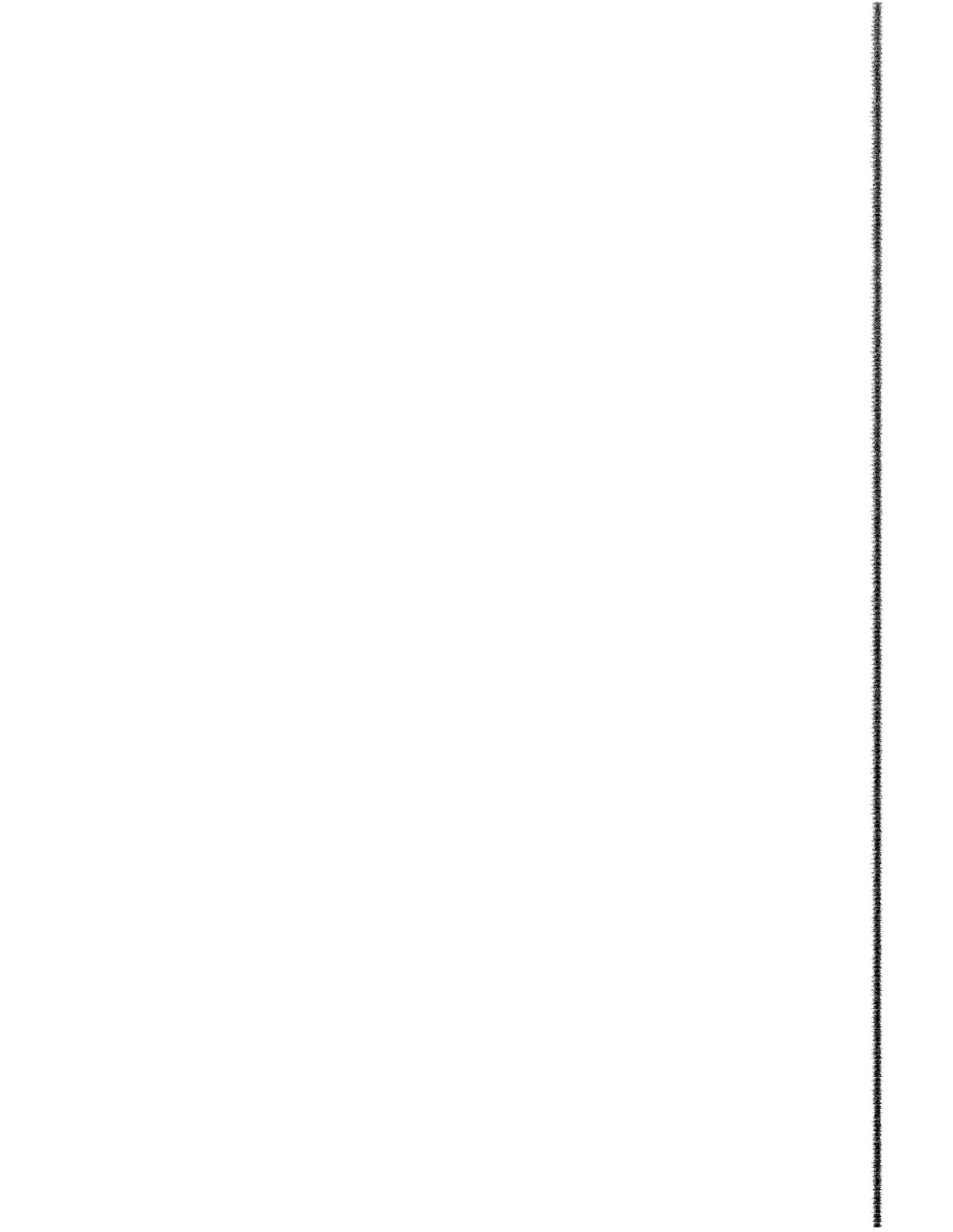
**Hanford Facility RCRA Permit Modification Notification Forms  
Part III, Chapter 5 and Attachment 35  
242-A Evaporator**

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Page 3 of 3: Appendix 4A, Table 4A-1



## 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 4A, Table 4A-1:

**Table 4A-1. Process and Instrumentation Diagrams.**

System	Drawing Number	Outstanding ECNs	Drawing Title
Vapor-Liquid Separator	H-2-98988 Sh. 1, Rev. 7	None	P & ID Evap Recirc System
Reboiler/Recirculation Line	H-2-98988 Sh. 2, Rev. 5	None	P & ID Evap Recirc System
Slurry System	H-2-98989 Sh. 1, Rev. 40	ECN-662012 [REDACTED]	P & ID Slurry System
Condensate Collection Tank	H-2-98990 Sh. 1, Rev. 10	None	P & ID Process Condensate System
Secondary Containment Drain System	H-2-98995 Sh. 1, Rev. 44	ECN-664304 None	P & ID Drain System
Secondary Containment Drain System	H-2-98995 Sh. 2, Rev. 5	None	P & ID Drain System
Condensers	H-2-98999 Sh. 1, Rev. 44	None	P & ID Vacuum Condenser System
Pump Room Sump	H-2-99002 Sh. 1, Rev. 5	ECN-647885	P & ID Jet Gang Valve System
Condensate Recycle System	H-2-99003 Sh. 1, Rev. 12	None	P & ID Filtered Raw Water System

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>J. A. Van Vliet</i> 3/22/02	Reviewed by RL Program Office: <i>G. H. Sanders</i> 4/2/02	Reviewed by Ecology: <i>F. Jamison</i> 4/10/02	Reviewed by Ecology: <i>L.E. Ruud</i> 5/20/02
J. A. Van Vliet      Date	G. H. Sanders      Date	F. Jamison      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.

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**Hanford Facility RCRA Permit Modification Notification Forms  
Part III, Chapter 6 and Attachment 36  
325 Hazardous Waste Treatment Units**

Page 1 of 3

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Page 2 of 3: Hanford Facility RCRA Permit, Condition III.6.A  
Page 3 of 3: Chapter 4, Section 4.1.4.1

## Hanford Facility RCRA Permit Modification Notification Form

Unit:		Permit Part & Chapter:			
325 Hazardous Waste Treatment Units		Part III, Chapter 6 and Attachment 36			
<b>Description of Modification:</b>					
Hanford Facility RCRA Permit, Condition III.6.A:					
III.6.A. <b>COMPLIANCE WITH APPROVED PERMIT APPLICATION</b>					
The Permittees shall comply with all requirements set forth in Attachment 36, including the Amendments specified in Condition III.6.B. Enforceable portions of the application are listed below. All subsections, figures, and tables included in these portions are also enforceable, unless stated otherwise:					
Part A, Form 3, Permit Application, Revision 4A, from Class 1 Modification for quarter ending June 30, 2000					
Chapter 2.2	Topographic Map, Chapter 2.0 non-enforceable sections modified in Class 1 Modification for quarter ending December 31, 2000				
Chapter 3.0	Waste Characteristics, from Class 1 Modification for quarter ending December 31, 1998				
Chapter 4.0	Process Information from Class 1 Modification for quarter ending <del>December 31, 2000</del> <del>March 31, 2002</del>				
Chapter 6.0	Procedures to Prevent Hazards from Class 1 Modification for quarter ending December 31, 2000				
Chapter 7.0	Contingency Plan, from Class 1 Modification for quarter ending June 30, 2000				
Chapter 8.0	Personnel Training, from Class 1 Modification for quarter ending September 30, 2001				
Chapter 11.0	Closure and Financial Assurance, from Class 1 Modification for quarter ending December 31, 2000				
Chapter 12.0	Reporting and Recordkeeping, from Class 1 Modification for quarter ending December 31, 1998				
Chapter 13.0	Other Relevant Laws, from Class 1 Modification for quarter ending December 31, 1998				
Appendix 3A	325 HWTUs Waste Analysis Plan from Class 1 Modification for quarter ending December Engineering Drawings				
Appendix 7A	Building Emergency Plan for the 325 HWTUs, from Class 1 Modification for quarter ending June 30, 2001				
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:	
<i>Submitted for</i> 3-15-02		<i>RF Christensen</i> 4/1/02		<i>F. Jamison</i> 5/1/02	
A.K. Ikenberry	Date	R.F. Christensen	Date	F. Jamison	Date
				Reviewed by Ecology:	
				<i>L.E. Ruud</i> 5/1/02	
				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:  325 Hazardous Waste Treatment Units	Permit Part & Chapter:  Part III, Chapter 6 and Attachment 36
--	---

Description of Modification:

Chapter 4, Section 4.1.4.1

4.1.4.1 Secondary Containment System Design and Operation for the Hazardous Waste Treatment Unit

The secondary containment system for the HWTU has three primary components: uniform fire code-approved flammable liquid storage cabinets, the floor of the rooms, and the fire water containment system (Figure 4.1).

Mixed and/or dangerous waste, in containers of 65 liters or less, is stored in Room 520 in steel flammable storage cabinets located in a storage room that forms the northeast corner of the room. An additional flammable storage cabinet is located beneath a stainless steel ventilated hood located along the south wall of Room 520. Containers over 65 liters are stored in a hood located along the east wall of the room. The containers are made of stainless steel or other suitable material depending on the characteristics of the waste and are kept closed except when waste is being added or withdrawn.

Dangerous waste in containers of 65 liters or less is stored in Room 528 steel storage cabinets in accordance with WAC 173-303-395(1)(a) and the Uniform Building Code (ICBO 1991). There are eight storage cabinets, four for flammable waste and four for corrosive waste. Two cabinets (one flammable storage cabinet and one corrosive storage cabinet) are located along the north wall of the room. Two cabinets for corrosive waste are located along the east wall. Two cabinets for flammable waste are also located along the south wall. Further storage is provided by a flammable cabinet located beneath a stainless steel ventilated hood on the east wall of the room. Each cabinet is clearly marked as containing either flammable or corrosive waste. Flammable waste cabinets are painted yellow, and corrosive cabinets are painted blue.



Rooms 520 and 528 are located on the main floor of the 325 Building and are constructed of concrete. The concrete floors of both rooms have been equipped with a heat-sealed seamless chemical-resistant polypropylene coating that covers the entire floor area of both rooms and laps approximately 10 centimeters up all of the outside walls of each room. The coated floor is capable of containing minor spills and leaks of liquid mixed waste. In addition, because the floors are not sloped, waste containers stored on the floors are elevated or otherwise protected to prevent the container from coming in contact with spilled waste.

Major spills or leaks of liquid mixed waste flow into the fire water containment system. The fire water containment system consists of floor trenches located at each entrance to the rooms and the fire water containment tank located in the basement of the building. The system is designed to collect the fire-suppression water in the event that the automatic sprinkler system was activated. The location of the trenches is shown in Figure 4.1.

The floor trenches located under the double doors on the west side of Rooms 520 and 528 are approximately 20 centimeters wide, 46 centimeters deep and 1.91 meters long. The floor trench located under the single south door of Room 520 is approximately 20 centimeters wide, 46 centimeters deep, and 1.5 meters long. The floor trench located under the single southwest door of Room 528 is 20 centimeters wide, 61 centimeters deep, and 1.5 meters long. The trenches extend completely across the entrance of each room so that liquids do not flow out through a doorway. The trenches are constructed of 14-gauge stainless steel and are equipped with a steel grate cover. All seams are welded to ensure integrity. Trenches under the double doors are equipped with two drains in the bottom, and trenches located under single doors are equipped with one drain to allow liquid to drain from the trench through 15-centimeter-diameter carbon steel piping to the fire water containment tank.

The fire water containment tank is located beneath Room 520 in the basement of the 325 Building. The rectangular tank has dimensions of 1.65 meters by 2.25 meters by 1.92 meters and a capacity of 22,710 liters. The sides and floor of the tank are constructed of epoxy-coated carbon steel plate. The steel sides and floor provide support for the chemical-resistant polypropylene liner. The tank is secured to the concrete floor of the 325 Building basement with 1.3-centimeter bolts at 1.82-meter intervals.

The possibility of mixing incompatible waste in the containment system is minimized, because the number of containers open at one time will be limited to those in process (waste not in process is stored in closed containers). In addition, the very large volume of any firewater flow would dilute waste and would minimize the possibility of adverse reactions.

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

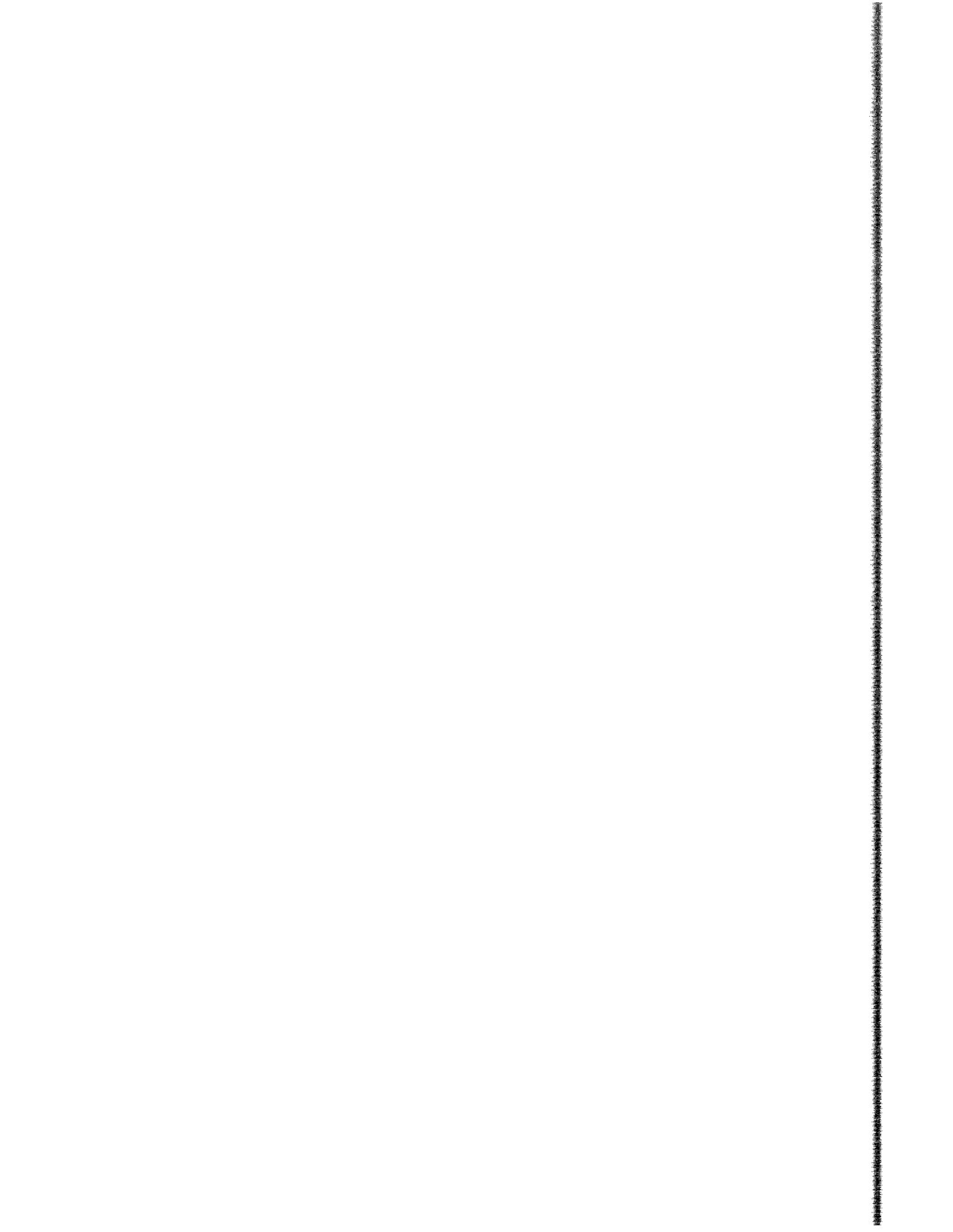
1. Administrative and Informational changes

Submitted by Co-Operator: <i>JAC</i> A.K. Ikenberry	Reviewed by RL Program Office: <i>R.F. Christensen</i> R.F. Christensen	Reviewed by Ecology: <i>F. Jamison</i> F. Jamison	Reviewed by Ecology: <i>L.E. Ruud</i> L.E. Ruud
3-15-02 Date	4/1/02 Date	09/20/02 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>1, if appropriate.



Hanford Facility RCRA Permit Modification Notification Form

Unit:  
325 Hazardous Waste Treatment Units

Permit Part & Chapter:  
Part III, Chapter 6 and Attachment 36

Description of Modification:

Chapter 4, Section 4.1.4.1

4.1.4.1 Secondary Containment System Design and Operation for the Hazardous Waste Treatment Unit

The secondary containment system for the HWTU has three primary components: uniform fire code-approved flammable liquid storage cabinets, the floor of the rooms, and the fire water containment system (Figure 4.1).

Mixed and/or dangerous waste, in containers of 65 liters or less, is stored in Room 520 in steel flammable storage cabinets located in a storage room that forms the northeast corner of the room. An additional flammable storage cabinet is located beneath a stainless steel ventilated hood located along the south wall of Room 520. Containers over 65 liters are stored in a hood located along the east wall of the room. The containers are made of stainless steel or other suitable material depending on the characteristics of the waste and are kept closed except when waste is being added or withdrawn.

Dangerous waste in containers of 65 liters or less is stored in Room 528 steel storage cabinets in accordance with WAC 173-303-395(1)(a) and the Uniform Building Code (ICBO 1991). There are eight storage cabinets, four for flammable waste and four for corrosive waste. Two cabinets (one flammable storage cabinet and one corrosive storage cabinet) are located along the north wall of the room. Two cabinets for corrosive waste are located along the east wall. Two cabinets for flammable waste are also located along the south wall. Further storage is provided by a flammable cabinet located beneath a stainless steel ventilated hood on the east wall of the room. Each cabinet is clearly marked as containing either flammable or corrosive waste. Flammable waste cabinets are painted yellow, and corrosive cabinets are painted blue.



Rooms 520 and 528 are located on the main floor of the 325 Building and are constructed of concrete. The concrete floors of both rooms have been equipped with a heat-sealed seamless chemical-resistant polypropylene coating that covers the entire floor area of both rooms and laps approximately 10 centimeters up all of the outside walls of each room. The coated floor is capable of containing minor spills and leaks of liquid mixed waste. In addition, because the floors are not sloped, waste containers stored on the floors are elevated or otherwise protected to prevent the container from coming in contact with spilled waste.

Major spills or leaks of liquid mixed waste flow into the fire water containment system. The fire water containment system consists of floor trenches located at each entrance to the rooms and the fire water containment tank located in the basement of the building. The system is designed to collect the fire-suppression water in the event that the automatic sprinkler system was activated. The location of the trenches is shown in Figure 4.1.

The floor trenches located under the double doors on the west side of Rooms 520 and 528 are approximately 20 centimeters wide, 46 centimeters deep and 1.91 meters long. The floor trench located under the single south door of Room 520 is approximately 20 centimeters wide, 46 centimeters deep, and 1.5 meters long. The floor trench located under the single southwest door of Room 528 is 20 centimeters wide, 61 centimeters deep, and 1.5 meters long. The trenches extend completely across the entrance of each room so that liquids do not flow out through a doorway. The trenches are constructed of 14-gauge stainless steel and are equipped with a steel grate cover. All seams are welded to ensure integrity. Trenches under the double doors are equipped with two drains in the bottom, and trenches located under single doors are equipped with one drain to allow liquid to drain from the trench through 15-centimeter-diameter carbon steel piping to the fire water containment tank.

The fire water containment tank is located beneath Room 520 in the basement of the 325 Building. The rectangular tank has dimensions of 1.65 meters by 2.25 meters by 1.92 meters and a capacity of 22,710 liters. The sides and floor of the tank are constructed of epoxy-coated carbon steel plate. The steel sides and floor provide support for the chemical-resistant polypropylene liner. The tank is secured to the concrete floor of the 325 Building basement with 1.3-centimeter bolts at 1.82-meter intervals.

The possibility of mixing incompatible waste in the containment system is minimized, because the number of containers open at one time will be limited to those in process (waste not in process is stored in closed containers). In addition, the very large volume of any firewater flow would dilute waste and would minimize the possibility of adverse reactions.

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: A.K. Ikenberry Date: 3-15-02	Reviewed by RL Program Office: R.F. Christensen Date: 4/1/02	Reviewed by Ecology: F. Jamison Date: 4/20/02	Reviewed by Ecology: L.E. Ruud Date: 5/1/02
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<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.

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**Hanford Facility RCRA Permit Modification Notification Forms  
List of Attachments**

**Attachment 4, Hanford Emergency Management Plan**

Page 1 of 3

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Page 2 of 3: Section 14.0, Subsection 14.3.7

Page 3 of 3: Appendix A, Page 5 of 6

## Hanford Facility RCRA Permit Modification Notification Form

Unit: <b>Hanford Emergency Management Plan</b>	Permit Part & Chapter: <b>List of Attachments, Attachment 4</b>
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Description of Modification:

**14.3.7 Plan Locations**

Copies of this plan are maintained at:

- RL and ORP Emergency Preparedness program offices;
- each contractor Emergency Preparedness office and other locations as specified by the respective contractor;
- Hanford Fire Department (area fire stations);
- Occurrence Notification Center;
- DOE Hanford Emergency Operations Center (primary and alternate); and
- the Patrol Operations Center.

Copies of the plan are also maintained at the following offsite agencies (per their request) to meet the WAC 173-303-350(4) requirement:

- ~~Kennewick~~ Police Department;
- ~~West Richland Police Department;~~
- ~~Washington State Patrol;~~
- ~~Pasco Fire Department;~~
- ~~Richland Fire Department;~~
- ~~City of Kennewick;~~
- Kadlec Medical Center;
- Our Lady of Lourdes Health Center;
- ~~Kennewick General Hospital;~~
- Benton County Emergency Management Center;
- Franklin County Emergency Management Center; and
- Grant County Emergency Management Center.

~~Location-specific documentation is offered to onsite agencies as requested. Management and Ecology. Location-specific documentation is offered to onsite agencies every two years.~~

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:	Reviewed by Ecology:	Reviewed by Ecology:
 G. B. Griffin Date	 K. L. Flynn Date	 M. Anderson-Moore 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:**  
Hanford Emergency Management Plan

**Permit Part & Chapter:**  
List of Attachments, Attachment 4

**Description of Modification:** Documentation Crosswalk Matrix  
Appendix A, Page 4 of 6:

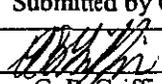
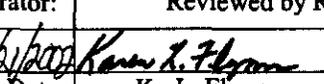
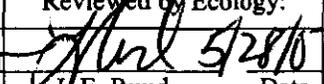
REQUIREMENT SOURCE	REQUIREMENT DESCRIPTION	HOW DOES REQUIREMENT APPLY TO HANFORD?	WHERE IS REQUIREMENT MET IN DOCUMENTATION?
WAC 173-303-350(4) (Permit requirement)	Copies of contingency plan. A copy of the contingency plan and all revisions to the plan shall be: (a) Maintained at the facility; and (b) Submitted to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services.	Copies of DOE/RL-94-02 are maintained throughout the Hanford Site and with offsite agencies. Copies of location-specific documentation are not being provided to offsite agencies because no agency has requested them when asked in 1994. The documentation is maintained at the facility and is available to offsite agencies every two years.	Site-level: DOE/RL-94-02, section 14.3.7.
WAC 173-303-350(5) (Permit requirement)	Amendments. The owner or operator shall review and immediately amend the contingency plan, if necessary, whenever: (a) Applicable regulations or the facility permit are revised; (b) The plan fails in an emergency; (c) The facility changes (in its design, construction, operation, maintenance, or other circumstances) in a way that materially increases the potential for fires, explosions, or releases of dangerous waste or dangerous waste constituents, or in a way that changes the response necessary in an emergency; (d) The list of emergency coordinators changes; or (e) The list of emergency equipment changes.	DOE/RL-94-02 and location-specific documentation is revised according to these criteria. Making changes to these documents must also be accomplished in accordance with WAC 173-303-830, when applicable.	Site-level: DOE/RL-94-02, section 14.3.1.1.
WAC 173-303-355(1) (Permit requirement)	Owners or operators must coordinate preparedness and prevention planning and contingency planning efforts, conducted under WAC 173-3-3-340 and -350 with local emergency planning committees established pursuant to Title III of the 1986 Superfund Amendments and Reauthorization Act.	RL coordinates planning actions with three LEPCs: Benton County, Franklin County, and Grant County.	Site-level: DOE/RL-94-02, sections 3.1, 3.1.1, and 3.4.
WAC 173-303-355(2)	Appropriate and generally accepted computer models should be utilized to determine the impacts of a potential catastrophic air release due to fire, explosion, or other accidental releases of hazardous constituents. Evacuation plans prepared pursuant to WAC 173-303-350(3)(d) must include those effected persons and areas identified through these modeling efforts.	The DOE Hanford EOC contains modeling equipment to predict impacts of air releases.	Site-level: DOE/RL-94-02, sections 2.2.2.3.3 and 1.3.3.2.
WAC 173-303-360(1) (Permit requirement)	Emergency coordinator. At all times, there must be at least one employee either on the facility premises or on call with the responsibility for coordinating all emergency response measures. This emergency coordinator must be thoroughly familiar with all aspects of the facility's contingency plan, required by WAC 173-303-350(2), all operations and activities at the facility, the location and properties of all wastes handled, the location of all records within the facility, and the facility layout. In addition, this person must have the authority to commit the resources needed to carry out the contingency plan.	Duty met by the Hanford Incident Command Structure and staff with supporting on-call personnel.	Site-level: DOE/RL-94-02, section 1.3.4 and 2.2.
WAC 173-303-360(2)(a) (Permit requirement)	Emergency procedures. The following procedures must be implemented in the event of an emergency. (a) Whenever there is an imminent or actual emergency situation, the emergency coordinator (or his designee when the emergency coordinator is on call) must immediately: (i) Activate internal facility alarms or communication systems, where applicable, to notify all facility personnel; and (ii) Notify appropriate state or local agencies with designated response roles if their help is needed.	Alarm activation can be accomplished by the discoverer of the event (fire/911), or the Hanford Incident Command System and staff with supporting on-call personnel.  Notification made to non-Hanford agencies with designated response roles agencies are accomplished via 911 telephones to request assistance (fire, ambulance, law enforcement).	Site-level: DOE/RL-94-02, sections 1.3.4 and 5.2.1.

Modification Class: <sup>123</sup>	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:	Reviewed by Ecology:	Reviewed by Ecology:
 G. B. Griffin	 K. L. Flynn	 M. Anderson-Moore	 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.

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**Hanford Facility RCRA Permit Modification Notification Forms**  
**Part V, Chapter 20 and Attachment 46**  
**300 Area Waste Acid Treatment System**

Page 1 of 10

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Page 4 of 10:	Hanford Facility RCRA Permit, List of Attachments
Page 5 of 10:	300 Area WATS Part A, Form 3, Comment Block
Page 6 of 10:	300 Area WATS Part A, Form 3, Section III.C
Page 7 of 10:	300 Area WATS Part A, Form 3, Figure
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Page 9 of 10:	300 Area WATS Part A, Form 3, Photographs
Page 10 of 10:	311 Tanks, Part A, Form 3, Comment Block

**Hanford Facility RCRA Permit Modification Notification Form**

Unit: <b>300 Area Waste Acid Treatment System</b>	Permit Part & Chapter: <b>Table of Contents</b>
--	--

Description of Modification:

Hanford Facility RCRA Permit, Table of Contents:

Permit Number: WA7890008967  
Revision Number: 7  
Expiration Date: September 27, 2004  
Page 5 of 129

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300 AREA WASTE ACID TREATMENT FACILITY ( <del>1324-NA</del> <b>Plan Completed</b> <del>1324-NA</del> <b>1324-NA</b> ) .....	124

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: <i>N.C. Boyter</i> 3-21-02	Reviewed by RL Program Office: <i>David W. Templeton</i> 4/1/02	Reviewed by Ecology: <i>R. Bond</i> 5-6-02	Reviewed by Ecology: <i>L.E. Ruud</i> 4/20/02
N. C. Boyter Date	D. T. Evans Date	R. Bond 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: 300 Area Waste Acid Treatment System	Permit Part & Chapter: Part V, Chapter 20
---	--

Description of Modification:

Hanford Facility RCRA Permit, Part V, Chapter 20:

Permit Number: WA7890008967  
Revision Number: 7  
Expiration Date: September 27, 2004  
Page 124 of 129

**CHAPTER 20**  
**300 Area Waste Acid Treatment System**  
~~(Partial Closure Plan Completed, December 3, 2001)~~

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>N.C. Boyter</i> 3-24-02	<i>David W. Templeton</i> 4-1-02	<i>R. Bond</i> 5-6-02	<i>L.E. Ruud</i> 5/20/02
N. C. Boyter Date	D. T. Evans Date	R. Bond 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: 300 Area Waste Acid Treatment System	Permit Part & Chapter: List of Attachments
---	---

Description of Modification:

Hanford Facility RCRA Permit. List of Attachments:

Attachment 46 300 Area Waste Acid Treatment System, Part A, Form 3, Revision 5, dated October 1, 1996, and Closure Plan, DOE/RL-90-11, Revision 2, dated May 1999 (Partial Closure Plan Completed December 3, 2001)

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: N. C. Boyter	Reviewed by RL Program Office: David W. Hampton	Reviewed by Ecology: R. Bond	Reviewed by Ecology: L.E. Ruud
3-21-02 Date	4/1/02 Date	5-6-02 Date	5-20-02 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:  
300 Area Waste Acid Treatment System

Permit Part & Chapter:  
300 Area WATS Part A, Form 3

Description of Modification:

300 Area WATS Part A, Form 3, Comment Block: Page 1.

Partial Closure Plan Completed, 12/03/01

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: <i>N.C. Boyter</i> 3-21-02	Reviewed by RL Program Office: <i>David W. Templeton</i> 4/1/02	Reviewed by Ecology: <i>R. Bond</i> 5-6-02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
N. C. Boyter Date	D. T. Evans Date	R. Bond 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**

<b>Unit:</b> 300 Area Waste Acid Treatment System	<b>Permit Part &amp; Chapter:</b> 300 Area WATS Part A, Form 3
--	---

Description of Modification:

300 Area WATS Part A, Form 3, Section III.C:

*[Redacted area]*

*[Redacted area]*

**T01, S02, T04**

The 300 Area Waste Acid Treatment System (300 WATS) and Tank 40 began waste management operations in April 1973; auxiliary equipment and centrifuge operations began in November 1995. The 300 WATS was used for the treatment and storage of mixed waste generated during fuel fabrication operations in the 300 Area. The 300 WATS also was used for disposing of used and/or unneeded chemicals for other Hanford Facility operations. A portion of the waste initially was treated in two tanks (tanks 7 and 11) in the 333 Building to reduce the chromium (VI) to chromium (III). From May 1983 to January 1987, tanks 7 and 11 were used twice a year to treat up to 757 liters (200 gallons) per day of waste (T01). This waste, along with all other waste acid generated in the 333 Building, was drained to the 334-A Building and stored in two storage tanks (tanks Band C) (S02), with a combined volume of 15,142 liters (4,000 gallons). Previously, waste entered the 334-A Building passing through a settling tank [tank A, volume 1,363 liters (360 gallons)] before entering tanks B and C. Tank A ceased receiving waste in August 1984 when piping was disconnected to the tank and waste was routed directly to tanks B and C. Tank A was cleaned out and the polyvinyl chloride liner removed in 1988.

From startup in April 1973 until August 1973, the waste acid from the 333 Building was collected in a plastic-lined steel underground 14,385 liter (3,800 gallon) tank and a plastic-lined steel aboveground 22,712 liter (6,000 gallon) tank (tank 4) in the 334 Tank Farm. At that time, the underground tank developed a leak and was removed from service. The 334-A Building storage tanks replaced this underground tank in December 1974. Tank 4 was retained for emergency storage when the 313 Building neutralization activities were down for maintenance or modifications. Tank 4 usually was empty and when the tank was filled in January 1986, a leak developed near the top of the tank. Tank 4 was emptied and abandoned at that time. Tank 4 was removed, cleaned, and disposed of onsite in 1988.

The waste acid was pumped from the 334-A Building to the 313 Building where the waste acid underwent pH adjustment in a waste acid neutralization tank (tank 2) (T01). Tank 2 was capable of treating a maximum of 13,249 liters (3,500 gallons) per day of waste acid. The waste acid was pumped from tank 2 to tank 11 and then to a centrifuge where the waste acid underwent further treatment to separate the liquid and solid phases (T04). A maximum of 11,356 liters (3,000 gallons) of waste acid per day could be treated in the centrifuge. The solid waste from the centrifuge was collected in containers and transferred to the 303-K Storage Unit. The liquid effluent was pumped from the centrifuge to tank 5 and to a filter press for additional treatment to remove fine solids (T04), which remained following treatment in the centrifuge. The filter press treated a maximum of 4,542 liters (1,200 gallons) per day. Solids collected in the filter press were sent to the uranium recovery system or to the 303-K Storage Unit. The filtered liquid effluent was drained into effluent collection tanks (tanks 9 and 10), where the liquid effluent was stored temporarily before being pumped to the 311 Tank Farm.

T01, S02 - The 311 Tank Farm was used for storage of treated liquid effluents from both the 300 WATS and the uranium recovery process. Storage occurred in two tanks (tanks 40 and 50) with capacities of 15,142 and 18,927 liters (4,000 and 5,000 gallons), respectively. Tanks 40 and 50 are constructed of stainless steel. Tank 50, the 18,927 liter (5,000 gallon) tank, occasionally was used for decanting waste when the centrifuge in the 313 Building was down for maintenance. Tank 50 was capable of treating up to 18,927 liters (5,000 gallons) per day, but only was used occasionally for decanting waste (a total of five times between January 1986 and December 1987). Auxiliary equipment (two pumps, two cartridge filters, and two sample ports) are housed in the adjacent 303-F Building. Auxiliary equipment was used to filter solutions and to recirculate the solutions between various tanks and the 313 Building for reprocessing.

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>N.C. Boyter</i> 3-21-02	Reviewed by RL Program Office: <i>David W. Tumpston</i> 4/2/02	Reviewed by Ecology: <i>F.W. Bond</i> 5-6-02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
N. C. Boyter Date	D. T. Evans Date	R. Bond 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**

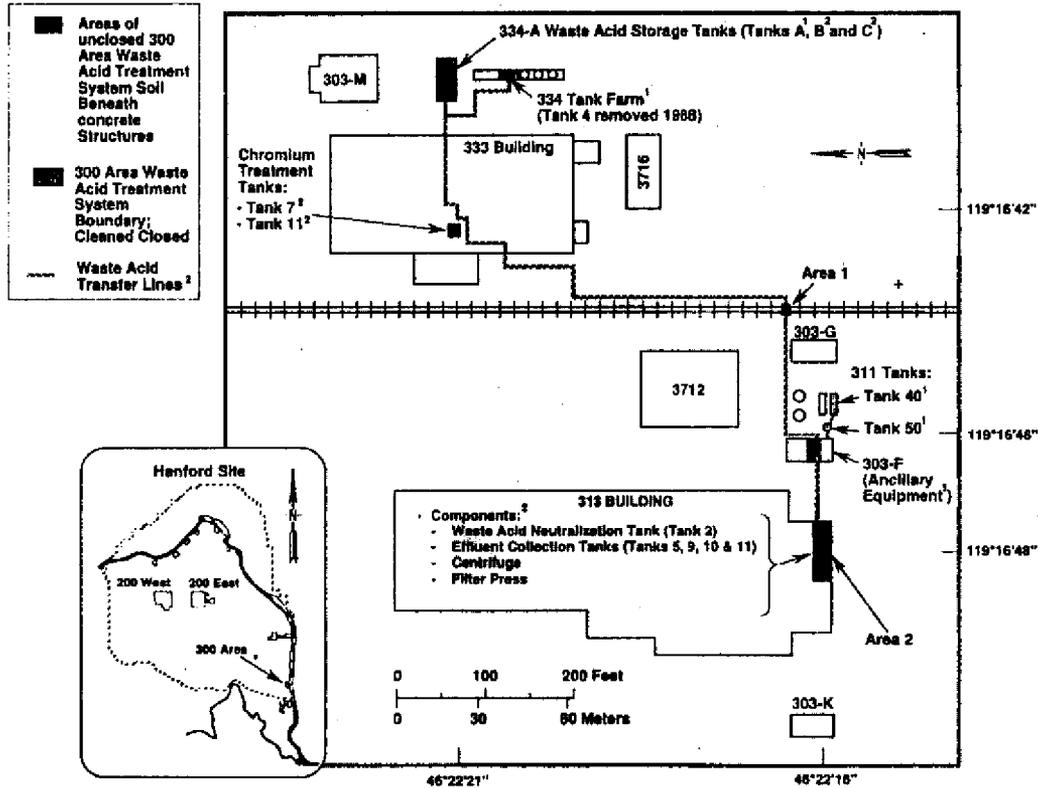
**Unit:**  
300 Area Waste Acid Treatment System

**Permit Part & Chapter:**  
300 Area WATS Part A, Form 3

Description of Modification:

300 Area WATS Part A, Form 3, Figure: Replace figure.

**300 Area Waste Acid Treatment System**



Notes: 1. Clean closed in place  
2. Removed

H00020171.1R6

Modification Class: <sup>1,2,3</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: <i>N.C. Boyer</i> N. C. Boyer	Reviewed by RL Program Office: <i>David W. Tompkins</i> D. T. Evans	Reviewed by Ecology: <i>R. Bond</i> R. Bond	Reviewed by Ecology: <i>L.E. Ruud</i> L.E. Ruud
3-21-02 Date	4/1/02 Date	5-8-02 Date	5-20-02 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: 300 Area Waste Acid Treatment System	Permit Part & Chapter: 300 Area WATS Part A, Form 3
---	--

Description of Modification:

300 Area WATS Part A, Form 3, Photographs: Delete all photographs replace with the following:

### 300 Area Waste Acid Treatment System Substructure Soil Contamination Location - Area 1



00070107-6cn  
(PHOTO TAKEN 2000)

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>N.C. Boyter</i> 3-21-02	Reviewed by RL Program Office: <i>David W. Hampton</i> 4/1/02	Reviewed by Ecology: <i>R. Bond</i> 5-6-02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
N. C. Boyter Date	<i>for</i> D. T. Evans Date	R. Bond 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.

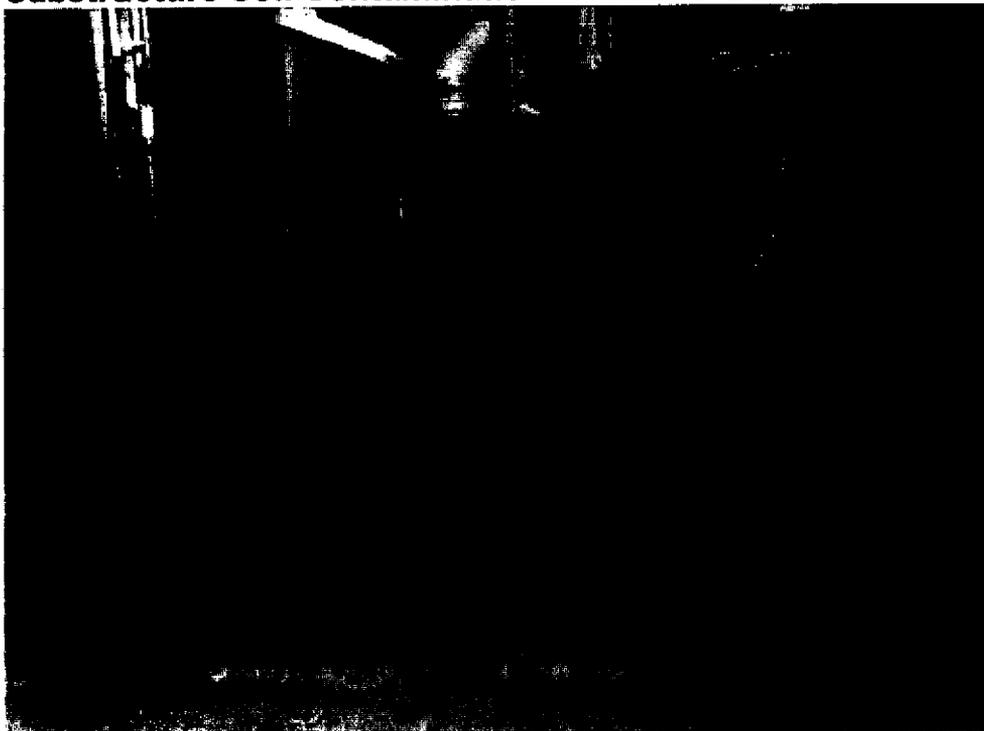
**Hanford Facility RCRA Permit Modification Notification Form**

Unit: <b>300 Area Waste Acid Treatment System</b>	Permit Part & Chapter: <b>300 Area WATS Part A, Form 3</b>
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Description of Modification:

300 Area WATS Part A, Form 3, Photographs: Add the following photograph.

**300 Area Waste Acid Treatment System  
Substructure Soil Contamination Location - Area 2**



00070107-2CN  
(PHOTO TAKEN 2000)

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>N.C. Boyter</i> 3-24-02	Reviewed by RL Program Office: <i>David W. Templeton</i> 4/1/02	Reviewed by Ecology: <i>R. Bond</i> 5-6-02	Reviewed by Ecology: <i>L.E. Ruud</i> 5-20-02
N. C. Boyter Date	D. T. Evans Date	R. Bond 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: 300 Area Waste Acid Treatment System		Permit Part & Chapter: 311 Tanks Part A, Form 3			
<u>Description of Modification:</u> 311 Tanks, Part A, Form 3, Comment Block: Page 1. <del>Closed - Capacity transferred to the 300 Area Waste Acid Treatment System 6/29/90.</del>					
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.			
<u>Enter wording of the modification from WAC 173-303-830, Appendix I citation</u>					
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>N. C. Boyter</i> 3-24-02	<i>David W. Templeton</i> 4/1/02	<i>R. Bond</i> 5-6-02	<i>L. E. Ruud</i> 5-20-02		
N. C. Boyter	Date	D. T. Evans	Date	R. Bond	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.