



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99354 • (509) 372-7950

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APR 29 2010

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April 26, 2010

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United States Department of Energy
Richland Operations Office
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Richland, Washington 99352

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Mr. John G. Lehew, President
CH2M HILL Plateau Remediation Company
P.O. Box 1600, MSIN: H7-30
Richland, Washington 99352

Re: United States Department of Energy Letter, dated April 8, 2010, *Class 1 Modifications to the Hanford Facility Resource Conservation and Recovery Act Permit, Quarter Ending March 31, 2010*

Dear Ladies and Gentlemen:

The Department of Ecology (Ecology) reviewed the referenced quarterly Class 1 and Class 1 Prime Modifications. You will find the results of that review on the following pages. Enclosed are Modification Notification Forms indicating that Ecology concurs or approves the modifications indicating the changes.

Part III, Operating Unit 5, 325 HWTUs

Page 2 of 3: Replace cover sheet with 3/31/2010 file
Page 3 of 3: Replace Addendum J, Contingency Plan

Concur
Concur



Mr. David A Brockman et al.
April 26, 2010
Page 2

Part III, Operating Unit 10, WTP

24590-HLW-PCN-ENV-07-005	Approve
24590-HLW-PCN-ENV-08-005	Approve
24590-LAW-PCN-ENV-09-001	Approve
24590-PTF-PCN-ENV-09-008	Approve
24590-PTF-PCN-ENV-09-011	Approve
24590-PTF-PCN-ENV-09-012	Approve
24590-PTF-PCN-ENV-09-013	Approve
24590-PTF-PCN-ENV-09-014	Approve
24590-PTF-PCN-ENV-09-016	Approve

Part III, Operating Unit 15, 331-C

Page 2 of 3: Replace file dated 9/30/2009, with file dated 3/31/2010	Concur
Page 3 of 3: Replace Addendum J, Contingency Plan dated 6/30/2009, with file dated 3/31/2010	Concur

If you have any questions, please contact me at 509-372-7894.

Sincerely,

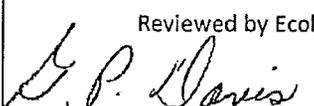


Greta P. Davis
RCRA/DW Permitting Coordinator
Nuclear Waste Program

dbm
Enclosures (10)

cc w/enc:

Lori A. Huffman, USDOE	Stuart Harris, CTUIR
Woody Russell, USDOE	Gabriel Bohnee, NPT
William J. Taylor, USDOE	Russell Jim, YN
Stephen R. Weil, USDOE	Susan Leckband, HAB
Brad Erlandson, BNI	Ken Niles, ODOE
Moussa N Jaraysi, CHPRC	Administrative Record: HSWP (TSD: H-0-1, T-2-6, H-0-8)
Kirk A. Peterson, MSA	Environmental Portal, A3-95
Eric Damberg PNNL	Hanford Facility Operating Record
Roger J. Landon, WCH	USDOE-ORP Correspondence Control
Phillip Peistrup, WRPS	USDOE-RL Correspondence Control

Hanford Facility RCRA Permit Modification Notification Form					
Unit: 325 Hazardous Waste Treatment Units	Permit Part Part III, Operating Unit 5				
<p><u>Description of Modification:</u> Part III, OU-5: Replace file dated September 30, 2009, with file dated March 31, 2010</p> <p style="text-align: center;">Part III, OPERATING UNIT GROUP 5 PERMIT CONDITIONS 325 Hazardous Waste Treatment Units</p>					
<p><u>Unit Description:</u> The 325 Hazardous Waste Treatment Units (325 HWTUs) store and treat dangerous and/or mixed waste in containers and in a 1,218-liter tank. The 325 HWTUs consist of the Shielded Analytical Laboratory (SAL) that includes Rooms 32, 200, 201, 202, and 203; and the Hazardous Waste Treatment Unit (HWTU) that includes Rooms 520, 524, and 528 of the 325 Building located in the south portion of the 300 Area.</p>					
<p><u>List of Addenda Specific to Operating Unit Group 5</u></p> <p>Addendum A Part A Form, dated September 30, 2008</p> <p>Addendum B Waste Analysis Plan, dated September 30, 2009</p> <p>Addendum C Process Information, dated June 30, 2009</p> <p>Addendum D Groundwater Monitoring (Reserved)</p> <p>Addendum E Procedures to Prevent Hazards, dated June 30, 2009</p> <p>Addendum F Preparedness and Prevention, dated June 30, 2009</p> <p>Addendum G Personnel Training, dated March 31, 2009</p> <p>Addendum H Closure Plan, dated June 30, 2009</p> <p>Addendum I Inspection Requirements, dated June 30, 2009</p> <p>Addendum J Contingency Plan, dated <u>March 31, 2010</u> December 31, 2008</p>					
WAC 173-303-830 Modification Class		Class 1	Class 1	Class 2	Class 3
Please mark the Modification Class:		X			
Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1					
Enter wording of WAC 173-303-830, Appendix I Modification citation: A.1 General Permit Provisions, Administrative and informational changes					
Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:		Reviewed by Ecology:  G. P Davis			
		Date 3-11-10			

Hanford Facility RCRA Permit Modification Notification Form				
Unit: 325 Hazardous Waste Treatment Units	Permit Part Part III, Operating Unit 5			
<p><u>Description of Modification:</u> Addendum J, Contingency Plan Replace Addendum J, Contingency Plan dated December 31, 2008, with Addendum J, Contingency Plan, dated March 31, 2010.</p>				
WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3
Please mark the Modification Class:	X			
Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan				
Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)		Reviewed by Ecology:		
Reason for denial:				
		G. P. Davis 3-11-10 Date		

Quarter Ending March 31, 2010

24590-HLW-PCN-ENV-07-005

Hanford Facility RCRA Permit Modification Notification Form														
Unit: Waste Treatment and Immobilization Plant	Permit Part: Part III, Operating Unit 10													
<p>Description of Modification: The purpose of this Class 1 prime modification is to update the integrity assessment of the HLW Facility Melter Cave Support Handling System (HSH) Decontamination Tanks (HSH-TK-00001 and HSH-TK-00002). The following document is submitted to replace the document currently in Appendix 10.11.</p>														
Appendix 10.11														
Replace:	24590-CM-HC4-HXYG-00138-02-00050, Rev 00A	With:	IA-3002325-000, Rev.0											
<p>This modification requests Ecology approval and incorporation into the permit the above mentioned integrity assessment report. The report has been updated by the Independent Qualified Registered Professional Engineer (IQRPE). The report reflects the IQRPE's review of the following final design documents:</p> <ul style="list-style-type: none"> • Mechanical Data Sheets, Facility and Vendor Fabrication Drawings, Specifications, and Material Requisitions produced in accordance with References: <ul style="list-style-type: none"> ○ American Petroleum Institute Standard API 620, Design and Construction of Large, Welded, Low-Pressure Storage Tanks, 10th Edition ○ ASME B31.3 Code, Process Piping, 1996 Edition, American Society of Mechanical Engineers • 24590-CM-POA-HDYR-00001-05-00003, Rev. 00B, HSH Decontamination Tank Code (Design Calculation) • 24590-CM-POA-HDYR-00001-05-00007, Rev. 00B, HSH Tank Thermal Design Calculation • 24590-WTP-3DP-G04T-00905, Rev. 8, Determination of Quality Levels <p>For each item of "Information Assessed" in the integrity assessment report, the items listed under the "Source of Information" column were reviewed and found to furnish adequate design controls and requirements to ensure the design fully satisfies the requirements of Washington Administrative Code, WAC-173-303-640, <i>Dangerous Waste Regulations</i>.</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">WAC 173-303-830 Modification Class:</td> <td style="width: 15%;">Class 1</td> <td style="width: 15%;">Class ¹1</td> <td style="width: 15%;">Class 2</td> <td style="width: 15%;">Class 3</td> </tr> <tr> <td>Please mark the Modification Class:</td> <td></td> <td style="text-align: center;">X</td> <td></td> <td></td> </tr> </table> <p>Enter relevant WAC 173-303-830, Appendix I Modification citation number: Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class ¹1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."</p>					WAC 173-303-830 Modification Class:	Class 1	Class ¹ 1	Class 2	Class 3	Please mark the Modification Class:		X		
WAC 173-303-830 Modification Class:	Class 1	Class ¹ 1	Class 2	Class 3										
Please mark the Modification Class:		X												
Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:	Reviewed by Ecology:													
	 Kelly Elsethagen													
	Date: <u>2-9-2010</u>													

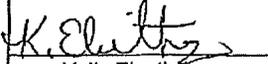
Quarter Ending March 31, 2010

24590-LAW-PCN-ENV-09-001

Hanford Facility RCRA Permit Modification Notification Form			
Unit:		Permit Part:	
Waste Treatment and Immobilization Plant		Part III, Operating Unit 10	
<u>Description of Modification:</u>			
This Integrity Assessment addresses the tank system ancillary equipment and miscellaneous unit sub-system equipment associated with plant items (LOP-VSL-00001, LOP-VSL-00002, LOP-SCB-00001, LOP-SCB-00002, LOP-WESP-00001, and LOP-WESP-00002) within the LAW Facility system LOP. Also included in this assessment are the miscellaneous unit sub-system equipment (spools and bellows) located between film coolers and the submerged bed scrubber miscellaneous units associated with the LAW Melter 1 and 2 offgas system.			
The following document is submitted to replace the documents currently in Appendix 9.11:			
Appendix 9.11			
Replace:	AREVA-IA-105, Rev. 1 (CCN 186406) 24590-CM-HC4-HXYG-00138-02-00032, Rev. 0 24590-CM-HC4-HXYG-00138-02-00039, Rev. 0	With:	CCN 169561, AREVA-IA-3002314-000, Rev. 0
This modification requests Ecology approval and incorporation into the permit the attached integrity assessment report. The final integrity assessment report reflects the Independent Qualified Registered Professional Engineer's review of a significant number of reference documents. A complete list of reference documents is provided in the Reference and Source of Information sections of the report. The following list is an example of the primary reference documents utilized in the assessment:			
<ul style="list-style-type: none"> • 24590-LAW-P1-P01T-00002, Rev. 5, LAW Vitrification Building General Arrangement Plan at El. 3'- 0"; • 24590-LAW-M6-LOP-00001, Rev. 4, P&ID –LAW Primary Offgas Process System Melter 1; • 24590-LAW-M6-LOP-00002, Rev. 4, P&ID –LAW Primary Offgas Process System Melter 2; • 24590-LAW-M5-V17T-00007, Rev. 4, Process Flow Diagram-Melter 1 Primary Offgas Treatment System (System LOP); • 24590-LAW-M5-V17T-00008, Rev. 4, Process Flow Diagram-Melter 2 Primary Offgas Treatment System (System LOP); • 24590-LAW-3YD-LOP-00001, Rev. 2, System Description for the LAW Primary Offgas (LOP) and Secondary Offgas/Vessel Vent (LVP) Systems; • 24590-WTP-DC-PS-01-001, Rev. 6A, Pipe Stress Design Criteria including "Pipe Stress Criteria" and "Span Method Criteria"; • ASME B31.3 Code, Process Piping, 1996 Edition, American Society of Mechanical Engineers; • 24590-WTP-PER-M-02-002, Rev. 2, Materials for Ancillary Equipment; • 24590-LAW-P6C-LOP-10001, Rev. C, Pipe Stress Analysis for LAW Primary Offgas (LOP) System; • ASME B16.5, Piping Flanges and Flanged Fittings, American Society of Mechanical Engineers; • ASME Boiler and Pressure Vessel Code (B&PV), Section IX, Welding and Brazing Qualifications, American Society of Mechanical Engineers; • 24590-WTP-DB-ENG-01-001, Rev. 10, Basis of Design; • 24590-WTP-PER-PL-02-001, Rev. 6, Piping Material Class Description. 			

Quarter Ending March 31, 2010

24590-LAW-PCN-ENV-09-001

WAC 173-303-830 Modification Class:	Class 1	Class ¹ 1	Class 2	Class 3
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class ¹ 1 modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."				
Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:	Reviewed by Ecology:  Kelly Elsethagen 2-17-2010 Date			

Quarter Ending 12/31/2009

24590-PTF-PCN-ENV-09-008

Hanford Facility RCRA Permit Modification Notification Form	
Unit: Waste Treatment and Immobilization Plant	Permit Part: Part III, Operating Unit 10

Description of Modification:

The purpose of this Class 1 prime modification is to update Process Flow Diagrams (PFDs) listed below for the following PTF critical systems currently in Appendix 8.1 of the DWP:

- FRP - Waste Feed Receipt System
- TLP - Treated LAW Evaporation System
- TCP - Treated LAW Concentrate Storage
- HLP - HLW Feed Receipt System and HLW Lag Storage and Feed Blending System
- UFP - Ultrafiltration Feed Preparation System and Permeate Collection System
- CXP - Cesium Ion Exchange Process Vessels System
- CNP - Cesium Nitric Acid Recovery Process System
- RDP - Spent Resin Collection and Dewatering Process System
- PVP/PVV/PJV - Vessel Vents Process
- PWD - Effluent, Plant Wash and Disposal System
- RLD - Radioactive Liquid Disposal System

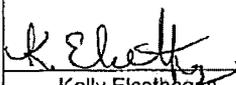
Appendix 8.1

Replace:	24590-PTF-M5-V17T-P0003, Rev. 0	With:	24590-PTF-M5-V17T-00003, Rev. 2
	24590-PTF-M5-V17T-P0005, Rev. 0		24590-PTF-M5-V17T-00005, Rev. 2
	24590-PTF-M5-V17T-P0006, Rev. 0		24590-PTF-M5-V17T-00006, Rev. 1
	24590-PTF-M5-V17T-P0007, Rev. 0		24590-PTF-M5-V17T-00007, Rev. 2
	24590-PTF-M5-V17T-P0008, Rev. 0		24590-PTF-M5-V17T-00008, Rev. 3
	24590-PTF-M5-V17T-P0009, Rev. 0		24590-PTF-M5-V17T-00009, Rev. 2
	24590-PTF-M5-V17T-P0010, Rev. 0		24590-PTF-M5-V17T-00032001, Rev. 0
			24590-PTF-M5-V17T-00032002, Rev. 0
	24590-PTF-M5-V17T-P0011, Rev. 0		24590-PTF-M5-V17T-00011, Rev. 2
	24590-PTF-M5-V17T-P0012, Rev. 0		24590-PTF-M5-V17T-00012, Rev. 3
	24590-PTF-M5-V17T-P0013, Rev. 0		24590-PTF-M5-V17T-00013, Rev. 3
	24590-PTF-M5-V17T-P0014, Rev. 0		24590-PTF-M5-V17T-00014, Rev. 2
	24590-PTF-M5-V17T-P0020, Rev. 0		24590-PTF-M5-V17T-00020, Rev. 2
	24590-PTF-M5-V17T-P0021001, Rev. 0		24590-PTF-M5-V17T-00021001, Rev. 2
	24590-PTF-M5-V17T-P0021002, Rev. 0		24590-PTF-M5-V17T-00021002, Rev. 2
	24590-PTF-M5-V17T-P0021004, Rev. 0		24590-PTF-M5-V17T-00021004, Rev. 2
	24590-PTF-M5-V17T-P0022001, Rev. 0		24590-PTF-M5-V17T-00022001, Rev. 2
	24590-PTF-M5-V17T-P0022002, Rev. 0		24590-PTF-M5-V17T-00022002, Rev. 2
	24590-PTF-M5-V17T-P0022003, Rev. 0		24590-PTF-M5-V17T-00022003, Rev. 2
	24590-PTF-M5-V17T-P0022004, Rev. 0		24590-PTF-M5-V17T-00022004, Rev. 2
	24590-PTF-M5-V17T-P0025, Rev. 0		24590-PTF-M5-V17T-00025, Rev. 1

The referenced PFDs have been revised. They incorporate changes provided in applicable document change forms (e.g., DCN, SCN, SDDR, FCN, FCR, etc.) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawing. This modification requests Ecology approval and incorporation into the permit. The specific changes to these PFDs that are indicated by the last notes on each drawing. Revisions are the result of ongoing design changes.

Quarter Ending 12/31/2009

24590-PTF-PCN-ENV-09-008

<p>Outstanding change document 24590-PTF-M5N-V17T-00084 has not been incorporated into this modification and applies to:</p> <ul style="list-style-type: none"> • 24590-PTF-M5-V17T-00003, Rev. 2 <p>Outstanding change documents 24590-PTF-M5N-V17T-00056, 24590-PTF-M5N-V17T-00016, 24590-PTF-M5N-V17T-00033 have not been incorporated into this modification and applies to:</p> <ul style="list-style-type: none"> • 24590-PTF-M5-V17T-00006, Rev. 1 <p>Outstanding change document 24590-PTF-M5N-V17T-00082 has not been incorporated into this modification and applies to:</p> <ul style="list-style-type: none"> • 24590-PTF-M5-V17T-00020, Rev. 2 <p>Outstanding change documents 24590-PTF-M5N-V17T-00086 and 24590-PTF-M5N-V17T-00088 have not been incorporated into this modification and applies to:</p> <ul style="list-style-type: none"> • 24590-PTF-M5-V17T-00022001, Rev. 2 <p>Outstanding change document 24590-PTF-M5N-V17T-00078 has not been incorporated into this modification and applies to:</p> <ul style="list-style-type: none"> • 24590-PTF-M5-V17T-00022002, Rev. 2 				
<p>WAC 173-303-830 Modification Class:</p> <p>Please mark the Modification Class:</p>	Class 1	Class 1 ¹	Class 2	Class 3
		X		
<p>Enter relevant WAC 173-303-830, Appendix I Modification citation number:</p> <p>Enter wording of WAC 173-303-830, Appendix I Modification citation:</p> <p>In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class 1¹ modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."</p>				
<p>Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)</p> <p>Reason for denial:</p>	<p>Reviewed by Ecology:</p> <div style="text-align: right; margin-top: 10px;">  2-18-2010 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Kelly Elsethagen Date </div>			

Quarter Ending 12/31/2009

24590-PTF-PCN-ENV-09-012

Hanford Facility RCRA Permit Modification Notification Form				
Unit: Waste Treatment and Immobilization Plant	Permit Part: Part III, Operating Unit 10			
<p>Description of Modification: The purpose of this Class 1 prime modification is to update P&IDs for the PTF PJV System and PVP System in Appendix 8.2 of the Dangerous Waste Permit. The permit P&IDs incorporated into the DWP are being replaced with source P&IDs as indicated in the Table below. The new drawings (Rev 0) are the result of converting one source drawing into multiple sheets in an effort to provide clearer representation of the PVP system, including additional details for instrumentation and controls. The following source P&IDs are submitted to replace the permitted P&IDs currently in Appendix 8.2:</p>				
Appendix 8.2				
Replace:	24590-PTF-M6-PJV-P0004 Rev 0	With:	24590-PTF-M6-PJV-00004 Rev 3	
	24590-PTF-M6-PVP-P0004 Rev 0		24590-PTF-M6-PVP-00004001 Rev 0	
			24590-PTF-M6-PVP-00004002 Rev 0	
<p>The reference P&IDs have been revised. They incorporate changes provided in applicable document change forms (e.g., DCN, SCN, SDDR, FCN, FCR, etc.) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawing. This modification requests Ecology approval and incorporation into the permit, the specific changes to these P&IDs that are indicated by change history notes, clouds, and revision triangles. Revisions are the result of ongoing design changes. The following identifies the significant types of changes on the attached drawings:</p> <ul style="list-style-type: none"> • Converted PVP P&ID from a single sheet to two-sheet drawings • Incorporated changes from change documents identified in Revision Description/Notes on each P&ID • Modified, deleted, added notes and references • Modified, identified, and added support/utility system lines, valves, instruments and controls • Revised, identified, and added slope symbols and/or the slope requirement • P&ID 24590-PTF-M6-PJV-00004: Deleted spare nozzles on PWD-RK-00020; deleted/modified vacuum breakers • P&ID 24590-PTF-M6-PVP-00004001: Added fire separation areas and revised label for the non-contact cooling water drain line (Grid E2) <p>The following is a list of outstanding change documents that have not been incorporated into this modification. These change documents have been provided to Ecology in accordance with Permit Condition III.10.C.9.h :</p> <ul style="list-style-type: none"> • 24590-PTF-M6N-M80T-00055, -00059, -00068; 24590-PTF-M6PR-10-00004; 24590-PTF-M6LN-PJV-00001 on P&ID 24590-PTF-M6-PJV-00004 • 24590-PTF-M6N-PVP-00060, -00061 on P&ID 24590-PTF-M6-PVP-00004001 and 24590-PTF-M6N-PVP-00060 on P&ID 24590-PTF-M6-PVP-00004002 				
WAC 173-303-830 Modification Class:	Class 1	Class 1 ¹	Class 2	Class 3
Please mark the Modification Class:		X		
<p>Enter relevant WAC 173-303-830, Appendix I Modification citation number: Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class 1¹ modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."</p>				

Quarter Ending 12/31/2009

24590-PTF-PCN-ENV-09-012

<p>Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)</p> <p>Reason for denial:</p>	<p>Reviewed by Ecology:</p> <p><i>Kelly Elsethagen</i> for Date 1-12-10</p> <hr/> <p>Kelly Elsethagen Date</p>
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Quarter Ending March 31, 2010

24590-PTF-PCN-ENV-09-013

Hanford Facility RCRA Permit Modification Notification Form			
Unit: Waste Treatment and Immobilization Plant	Permit Part: Part III, Operating Unit 10		
<u>Description of Modification:</u> The purpose of this Class 1 prime modification is to update the P&IDs for the PTF PWD in Appendix 8.2 of the DWP. The permit P&IDs incorporated into the DWP are being replaced with source P&IDs as indicated in the table below.			
Appendix 8.2			
Replace:	24590-PTF-M6-PWD-P0003, Rev. 0	With:	24590-PTF-M6-PWD-00003, Rev. 4
	24590-PTF-M6-PWD-P0009, Rev. 0		24590-PTF-M6-PWD-00009, Rev. 3
	24590-PTF-M6-PWD-P0011, Rev. 0		24590-PTF-M6-PWD-00011, Rev. 2
	24590-PTF-M6-PWD-P0014, Rev. 0		24590-PTF-M6-PWD-00014, Rev. 3
	24590-PTF-M6-PWD-P0029, Rev. 0		24590-PTF-M6-PWD-00029, Rev. 3
	24590-PTF-M6-PWD-P0034, Rev. 0		24590-PTF-M6-PWD-00034, Rev. 3
	24590-PTF-M6-PWD-P0046, Rev. 0		24590-PTF-M6-PWD-00046, Rev. 2
This modification requests Ecology approval and incorporation into the permit, the changes provided in applicable document change forms (e.g., DCNs) and changes associated with the resolution to comments on change documents since the issuance of the last revision of the permitted drawings. Revisions are the result of ongoing design changes.			
Significant changes to the drawings are identified below:			
<u>24590-PTF-M6-PWD-00003</u>			
<ul style="list-style-type: none"> • Included maximum operating volumes and flow rates for vessels, breakpots, and pumps • Added emptying ejector from CNP-VSL-00001 • Removed spare dipped lines • Removed insulation in C3 area on Process Condensate lines from CNP-HX-00001/2/3/4 • Added insulation in C3 areas to 19M NaOH lines • Added piping isometric/jumper support frame interface nozzle numbers • Identified black cell areas • Revised, identified, and added quality level and seismic designations • Updated off-sheet connector coordinates and slopes • Modified, deleted, and added notes and references 			
<u>24590-PTF-M6-PWD-00009</u>			
<ul style="list-style-type: none"> • Included dimensions of emptying ejectors and sumps • Deleted liner symbols (now shown on civil/structural drawings) • Added reducer sizes at the transition between the ejector nozzles and connecting pipes • Added isolation ball valves to the radar level detector lines at the C3/C5 interface point • Added specialty item tag numbers to each TV camera access port • Removed sump wash rings, affecting end positions of TV camera guide pipelines • Identified black cell areas • Added and modified quality levels and seismic categories • Updated off-sheet connector coordinates and slopes • Modified, deleted, and added notes and references 			

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24590-PTF-PCN-ENV-09-013

24590-PTF-M6-PWD-00011

- Deleted floor drains and camera port from the Filter Cave Room
- Deleted room liners (now shown on civil/structural drawings)
- Employed double encased piping for drain lines exiting the Filter Cave Crane Maintenance Areas and Decon Chamber that route through C2 areas
- Added flushing connections to encasement piping
- Added plug to C5 drain in the Decon Chamber
- Added quality levels and seismic categories
- Updated off-sheet connectors
- Identified black cell areas
- Modified, deleted, and added notes and references

24590-PTF-M6-PWD-00014

- Included dimensions and capacities of ejectors and sumps
- Deleted liner symbols (now shown on civil/structural drawings)
- Added quality levels and seismic categories
- Added piping isometric/jumper support frame interface nozzle numbers
- Identified black cell areas
- Modified, deleted, and added notes and references

24590-PTF-M6-PWD-00029

- Included dimensions of plant wash rack
- Added vacuum breaker, line sections, reducer, and vortex meter
- Added isolation valve from DIW supply line
- Relocated the black cell piping interface connection
- Deleted spares and nozzle numbers
- Revised line sizes, quality level, seismic category and slopes
- Modified, deleted, and added notes and references

24590-PTF-M6-PWD-00034

- Included dimensions of plant wash rack
- Added vacuum breaker, vortex meter, and reducer
- Relocated the black cell piping interface connection
- Added nozzle numbers
- Revised line sizes, quality level, seismic category and slopes
- Modified, deleted, and added notes and references

24590-PTF-M6-PWD-00046

- Included dimensions of plant wash rack
- Added anti-foam reagent line and components to supply anti-foam to UFP-VSL-00001B
- Added vacuum breaker, vortex meter, and reducer
- Revised nozzle numbers and valve sequence number
- Revised line sizes, temperatures, quality level, seismic category and slopes
- Modified, deleted, and added notes and references

The following is a list of outstanding change documents that have not been incorporated into this modification:

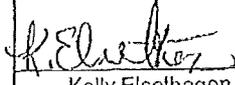
Quarter Ending March 31, 2010

24590-PTF-PCN-ENV-09-013

- | | |
|--|---|
| <p><u>24590-PTF-M6-PWD-00003</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6LN-PWD-00030 • 24590-PTF-M6N-10-00002 • 24590-PTF-M6N-M80T-00061 • 24590-PTF-M6N-M80T-00067 • 24590-PTF-M6N-PWD-00321 • 24590-PTF-M6PR-PWD-00009 | <p><u>24590-PTF-M6-PWD-00029</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6LN-PWD-00002 • 24590-PTF-M6N-10-00004 • 24590-PTF-M6N-10-00010 • 24590-PTF-M6N-M80T-00055 • 24590-PTF-M6N-M80T-00059 • 24590-PTF-M6N-M80T-00068 |
| <p><u>24590-PTF-M6-PWD-00009</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6LN-PWD-00029 • 24590-PTF-M6N-10-00002 • 24590-PTF-M6N-M80T-00077 • 24590-PTF-M6PR-PWD-00016 | <p><u>24590-PTF-M6-PWD-00034</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6N-10-00004 • 24590-PTF-M6N-10-00010 • 24590-PTF-M6N-M80T-00055 • 24590-PTF-M6N-M80T-00059 • 24590-PTF-M6N-M80T-00068 |
| <p><u>24590-PTF-M6-PWD-00011</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6LN-PWD-00020 • 24590-PTF-M6PR-PWD-00012 | <p><u>24590-PTF-M6-PWD-00046</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6LN-PWD-00002 • 24590-PTF-M6N-M80T-00059 • 24590-PTF-M6N-M80T-00068 |
| <p><u>24590-PTF-M6-PWD-00014</u></p> <ul style="list-style-type: none"> • 24590-PTF-M6N-10-00002 • 24590-PTF-M6N-M80T-00077 | |

WAC 173-303-830 Modification Class:	Class 1	Class 1 ¹	Class 2	Class 3
Please mark the Modification Class:		X		

Enter relevant WAC 173-303-830, Appendix I Modification citation number:
 Enter wording of WAC 173-303-830, Appendix I Modification citation:
 In accordance with WAC 173-303-830(4)(d)(i), this modification notification is requested to be reviewed and approved as a Class 1¹ modification. WAC 173-303-830(4)(d)(ii)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."

Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:	Reviewed by Ecology: <div style="text-align: center;">  Kelly Elsethagen </div> <div style="text-align: right;"> 3-18-2010 Date </div>
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Quarter Ending March 31, 2010

24590-PTF-PCN-ENV-09-016

Hanford Facility RCRA Permit Modification Notification Form			
Unit:		Permit Part:	
Waste Treatment and Immobilization Plant		Part III, Operating Unit 10	
Description of Modification:			
The purpose of this Class 1 prime modification is to replace Material Selection Data Sheets with updated Corrosion Evaluations for the following PTF systems in Appendix 8.9 of the Dangerous Waste Permit.			
<ul style="list-style-type: none"> • CNP - Cesium Nitric Acid Recovery Process System • FEP - Waste Feed Evaporation Process System • FRP - Waste Feed Receipt Process System • HLP - HLW Lag Storage and Feed Blending Process System • PWD - Plant Wash and Disposal System • UFP - Ultrafiltration Process System 			
Appendix 8.9			
Replace:		With:	
	24590-PTF-N1D-CNP-P0001, Rev. 0		24590-PTF-N1D-CNP-00001, Rev. 1
	24590-PTF-N1D-FEP-P0002, Rev. 1		24590-PTF-N1D-FEP-00002, Rev. 6
	24590-PTF-N1D-FEP-P0009, Rev. 0		24590-PTF-N1D-FEP-00009, Rev. 3
	24590-PTF-N1D-FEP-P0010, Rev. 0		24590-PTF-N1D-FEP-00010, Rev. 3
	24590-PTF-N1D-FEP-P0013, Rev. 0		24590-PTF-N1D-FEP-00013, Rev. 2
	24590-PTF-N1D-FRP-P0001, Rev. 2		24590-PTF-N1D-FRP-00001, Rev. 7
	24590-PTF-N1D-HLP-P0007, Rev. 1		24590-PTF-N1D-HLP-00007, Rev. 6
	24590-PTF-N1D-HLP-P0010, Rev. 1		24590-PTF-N1D-HLP-00010, Rev. 6
	24590-PTF-N1D-PWD-P0002, Rev. 1		24590-PTF-N1D-PWD-00002, Rev. 5
	24590-PTF-N1D-PWD-P0007, Rev. 0		24590-PTF-N1D-PWD-00007, Rev. 4
			24590-PTF-N1D-PWD-00009, Rev. 2
	24590-PTF-N1D-UFP-P0003, Rev. 0		24590-PTF-N1D-UFP-00003, Rev. 5
	See discussion below		24590-PTF-N1D-UFP-00009, Rev. 0
<p>This modification requests Ecology approval and incorporation into the permit the specific changes that are identified by revision bars that have been issued since the last revision of the permitted version. Revisions are the result of ongoing design review. The following identifies the changes:</p> <p><u>24590-PTF-N1D-CNP-00001 (CNP-DISTC-00001, C5 Evaporator Nitric Acid Rectifier)</u></p> <ul style="list-style-type: none"> • Updated design temperature and pressure • Incorporated new Process Corrosion Data Sheet • Added new section p - Inadvertent Addition of Nitric Acid • Updated References and Bibliography <p><u>24590-PTF-N1D-FEP-00002 (FEP-VSL-00017A/B, Waste Feed Evaporator Feed Vessels)</u></p> <ul style="list-style-type: none"> • Updated wear allowance based on 24590-WTP-RPT-M-04-0008, <i>Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities</i> • Updated References and Bibliography 			

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24590-PTF-PCN-ENV-09-016

24590-PTF-N1D-FEP-00009 (FEP-COND-00002A/B, Waste Feed Evaporator Intercondensers)

- Updated design temperature
- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Changed cell location to outcell
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised Process Corrosion Data Sheet
- Added Corrosion Evaluation

24590-PTF-N1D-FEP-00010 (FEP-COND-00003A/B, Waste Feed Evaporator Aftercondensers)

- Updated design temperature
- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Changed cell location to outcell
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised Process Corrosion Data Sheet
- Added Corrosion Evaluation

24590-PTF-N1D-FEP-00013 (FEP-COND-00001A/B, Waste Feed Evaporator Primary Condenser)

- Updated design temperature
- Added new section p - Inadvertent Addition of Nitric Acid
- Incorporated new Process Corrosion Data Sheet
- Updated References and Bibliography
- Changed cell location to outcell
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised Process Corrosion Data Sheet
- Added Corrosion Evaluation

24590-PTF-N1D-FRP-00001 (FRP-VSL-00002A-D, Waste Feed Receipt Vessels)

- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Changed cell location to outcell
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised Process Corrosion Data Sheet
- Added Corrosion Evaluation

24590-PTF-N1D-HLP-00007 (HLP-VSL-00027A&B HLW Lag Storage Vessels)

- Updated PJM and erosion information based on 24590-WTP-MOC-50-00004, *Wear Allowance for WTP Waste Slurry Systems*
- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Added new section p - Inadvertent Addition of Nitric Acid

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24590-PTF-N1D-HLP-00010 (HLP-VSL-00028, HLW Feed Blending Vessel)

- Updated PJM and erosion information based on 24590-WTP-M0C-50-00004, *Wear Allowance for WTP Waste Slurry Systems*
- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Added new section p - Inadvertent Addition of Nitric Acid

24590-PTF-N1D-PWD-00002 (PWD-VSL-00043, HLW Effluent Transfer Vessel)

- Updated PJM and erosion information based on 24590-WTP-M0C-50-00004, *Wear Allowance for WTP Waste Slurry Systems*
- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Changed cell location to outcell
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised Process Corrosion Data Sheet
- Added Corrosion Evaluation
- Updated design temperature and PJM Discharge Velocity and Drive Cycle

24590-PTF-N1D-PWD-00007 (PWD-BRKPT-00007/09/17/19, Breakpots)

- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References

24590-PTF-N1D-PWD-00009 (PWD-BRKPT-00008/10, Breakpots)

- Breakpots PWD-BRKPT-00008/10 were previously incorporated into the DWP under 24590-PTF-N1D-PWD-P0007
- Breakpots -00008/10 were subsequently removed from 24590-PTF-N1D-PWD-P0007 and placed under 24590-PTF-N1D-PWD-00009

24590-PTF-N1D-UFP-00003 (UFP-VSL-00002A/B, Ultrafiltration Feed Vessels)

- Updated wear allowance based on 24590-WTP-RPT-M-04-0008, *Evaluation of Stainless Steel Wear Rates in WTP Waste Streams at Low Velocities*
- Updated References and Bibliography
- Revised section d - Stress Corrosion Cracking
- Added new section p - Inadvertent Addition of Nitric Acid
- Revised section i - Erosion
- Revised Process Corrosion Data Sheet

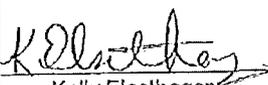
24590-PTF-N1D-UFP-00009 (UFP-HX-00001A/B, UFP Slurry Cooler)

- The UFP system was originally incorporated into the permit under Package PTF-040 and PTF-025
- As agreed with Ecology, the new corrosion evaluation is submitted for incorporation into the permit

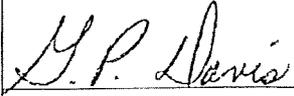
There are no outstanding change documents associated with this modification.

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24590-PTF-PCN-ENV-09-016

WAC 173-303-830 Modification Class:	Class 1	Class 1 ¹	Class 2	Class 3
Please mark the Modification Class:		X		
Enter relevant WAC 173-303-830, Appendix I Modification citation number: Enter wording of WAC 173-303-830, Appendix I Modification citation: In accordance with WAC 173-303-830(4)(d)(I), this modification notification is requested to be reviewed and approved as a Class 1 ¹ modification. WAC 173-303-830(4)(d)(II)(A) states, "Class 1 modifications apply to minor changes that keep the permit current with routine changes to the facility or its operation. These changes do not substantially alter the permit conditions or reduce the capacity of the facility to protect human health or the environment. In the case of Class 1 modifications, the director may require prior approval."				
Modification Approved/Concur: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) Reason for denial:	Reviewed by Ecology:  Kelly Elsethagen Date: <u>3-18-2010</u>			

Hanford Facility RCRA Permit Modification Notification Form														
Unit: 331-C Storage Unit	Permit Part Part III, Operating Unit 15													
<p><u>Description of Modification:</u> Part III, OU-15: Replace file dated September 30, 2009, with file dated March 31, 2010</p> <p style="text-align: center;">PART III, OPERATING UNIT GROUP 15 CONDITIONS 331-C Storage Unit</p>														
<p><u>Unit Description</u></p> <p>The 331-C Storage Unit is a dangerous waste container storage unit located within the south portion of the 300 Area. The unit is used for the collection, consolidation, packaging, storage, and preparation for transport and disposal of dangerous waste. The waste stored at the 331-C Storage Unit consists of listed waste from specific and nonspecific sources, discarded commercial chemical products, characteristic waste, and criteria waste.</p> <p>The 331-C Storage Unit is divided into a number of separate locations equipped with independent secondary containment to ensure the segregation of incompatible wastes and proper management and removal of any spills or leaks that might occur. A small, laboratory-style fume hood on the south wall in the storage area is used for waste verification, compatibility testing, and small-volume waste work.</p>														
<p><u>List of Addenda Specific to Operating Unit Group 15</u></p> <p>Addendum A Part A Form, dated September 30, 2008</p> <p>Addendum B Waste Analysis Plan, dated September 30, 2009</p> <p>Addendum C Process Information, dated June 30, 2009</p> <p>Addendum D Groundwater Monitoring (Reserved)</p> <p>Addendum E Procedures to Prevent Hazards, dated June 30, 2009</p> <p>Addendum F Preparedness and Prevention, dated June 30, 2009</p> <p>Addendum G Personnel Training, dated March 31, 2009</p> <p>Addendum H Closure Plan, dated June 30, 2009</p> <p>Addendum I Inspection Requirements, dated June 30, 2009</p> <p>Addendum J Contingency Plan, dated <u>March 31, 2010</u> June 30, 2009</p>														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 55%;">WAC 173-303-830 Modification Class</th> <th style="width: 10%;">Class 1</th> <th style="width: 10%;">Class 1</th> <th style="width: 10%;">Class 2</th> <th style="width: 15%;">Class 3</th> </tr> </thead> <tbody> <tr> <td>Please mark the Modification Class:</td> <td style="text-align: center;">X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>					WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3	Please mark the Modification Class:	X			
WAC 173-303-830 Modification Class	Class 1	Class 1	Class 2	Class 3										
Please mark the Modification Class:	X													
<p>Enter relevant WAC 173-303-830, Appendix I Modification citation number: A.1</p> <p>Enter wording of WAC 173-303-830, Appendix I Modification citation: A.1 General Permit Provisions, Administrative and informational changes</p>														
<p>Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below)</p> <p><u>Reason for denial:</u></p>		<p>Reviewed by Ecology:</p> <p style="text-align: center;"><i>G. P. Davis</i> 3-11-10</p> <p style="text-align: center;">G. P. Davis Date</p>												

Hanford Facility RCRA Permit Modification Notification Form				
Unit: 331-C Storage Unit	Permit Part Part III, Operating Unit 15			
<p><u>Description of Modification:</u> Addendum J, Contingency Plan Replace Addendum J, Contingency Plan dated June 30, 2009, with Addendum J, Contingency Plan, dated March 31, 2010.</p>				
WAC 173-303-830 Modification Class Please mark the Modification Class:	Class 1 X	Class 1	Class 2	Class 3
<p>Enter relevant WAC 173-303-830, Appendix I Modification citation number: B.6.d Enter wording of WAC 173-303-830, Appendix I Modification citation: B.6.d. Contingency plan, Changes in name, address, or phone number of coordinators or other persons or agencies identified in the plan</p>				
Modification Approved/Concur <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Denied (state reason below) <u>Reason for denial:</u>	Reviewed by Ecology: <div style="text-align: right; font-family: cursive;">  </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> G. P Davis 3-11-10 </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> Date </div>			