



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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

June 11, 2008

Ms. Shirley J. Olinger, Manager
Office of River Protection
United States Department of Energy
P.O. Box 450, MSIN: H6-60
Richland, Washington 99352

RECEIVED
JUN 16 2008
EDMC

Mr. William S. Elkins, Project Director
Bechtel National, Inc.
2435 Stevens Center Place, MSIN: H4-02
Richland, Washington 99354

Re: Submittal of Hanford Facility RCRA Permit Modification Notification Form -
24590-HLW-PCN-ENV-06-020; Class 1 Modification to the Hanford Facility Resource
Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion, for the
Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10
(Waste Treatment and Immobilization Plant), WA7890008967

Dear Ms. Olinger and Mr. Elkins:

The Department of Ecology approves the referenced Class 1 Modification submitted April 30, 2008.
The approved Hanford Facility RCRA Permit Modification Notification Form is enclosed.

Modification 24590-HLW-PCN-ENV-06-020 provides the updated High Level Waste Facility
General Arrangement Plan and section drawings:

- 24590-HLW-P1-P01T-00001, Revision 7
- 24590-HLW-P1-P01T-00002, Revision 6
- 24590-HLW-P1-P01T-00004, Revision 6
- 24590-HLW-P1-P01T-00005, Revision 5
- 24590-HLW-P1-P01T-00008, Revision 11
- 24590-HLW-P1-P01T-00009, Revision 11
- 24590-HLW-P1-P01T-00010, Revision 11
- 24590-HLW-P1-P01T-00011, Revision 11

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This replaces the current permit plan and section drawings in Appendix 10.4. In addition to the changes listed on the Hanford Facility RCRA Permit Modification Notification Form, please note the following:

- RLD-BKRPT-00005 was deleted from 24590-HLW-P1-P01T-00004.
- The form incorrectly states that ASX-SMPLR-00026 was deleted from 24590-HLW-P1-P01T-00004. This autosampling cabinet is not present on the current permit document; therefore, there is no cabinet to delete.
- The fourth bullet under 24590-HLW-P1-P01T-00001 should state "Removed pump PCW-PMP-00002C." The referenced Document Change Notice, 24590-HLW-P1N-P01T-00178 is outstanding and the change has not been made on the submitted drawing.

If there are any questions, contact me at 509-372-7882 or David Becker at 509-372-7990.

Sincerely,



Brenda Becker-Khaleel
WTP Permit Writer
Nuclear Waste Program

trw/jc
Enclosure

cc electronic w/enc:

Dave Bartus, EPA
John Eschenberg, USDOE
Lori Huffman, USDOE
Tony McKarns, USDOE
Gae Neath, USDOE
Don Sommer, USDOE
William Taylor, USDOE
Julie Colby, BNI

Brad Erlandson, BNI
Peggy Fisher, BNI
Stan Hill, BNI
Dennis Klein, BNI
Sandi Murdock, BNI
Suzette Thompson, FHI
Phil Peistrup, WGI

cc w/enc:

Administrative Record: Tank Waste Treatment Requirements ✓
Environmental Portal
Hanford Operating Record General File
USDOE-ORP Correspondence Control

Quarter Ending 6/30/2008

24590-HLW-PCN-ENV-06-020

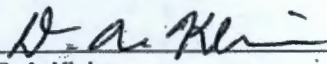
Hanford Facility RCRA Permit Modification Notification Form
Part III, Operating Unit 10
Waste Treatment and Immobilization Plant

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Page 2 of 3: Hanford Facility RCRA Permit, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant
 Update HLW Vitrification Building General Arrangement Plan at El. -21-0" (24590-HLW-P1-P01T-00001)
 Update HLW Vitrification Building General Arrangement Plan at El. 0-0" (24590-HLW-P1-P01T-00002)
 Update HLW Vitrification Building General Arrangement Plan at El. 37-0" (24590-HLW-P1-P01T-00004)
 Update HLW Vitrification Building General Arrangement Plan at El. 58-0" (24590-HLW-P1-P01T-00005)
 Update HLW Vitrification Building General Arrangement Sections A-A, B-B & C-C (24590-HLW-P1-P01T-00008)
 Update HLW Vitrification Building General Arrangement Sections D-D, E-E & F-F (24590-HLW-P1-P01T-00009)
 Update HLW Vitrification Building General Arrangement Sections G-G & H-H (24590-HLW-P1-P01T-00010)
 Update HLW Vitrification Building General Arrangement Sections J-J & K-K (24590-HLW-P1-P01T-00011)
 in Appendix 10.4 of the Dangerous Waste Permit.

Submitted by Co-Operator:


Reviewed by ORP Program Office:



 D. A. Klein

4/2/08

 Date



 for S. J. Olinger

4/1/08

 Date

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24590-HLW-PCN-ENV-06-020

Hanford Facility RCRA Permit Modification Notification Form

Unit:

Waste Treatment and Immobilization Plant

Permit Part & Chapter:

Part III, Operating Unit 10
Description of Modification:

The purpose of this Class 1 modification is to update HLW Vitrification Building General Arrangement Plans for the -21', -0', 37', and 58' elevations, and section views in Appendix 10.4 of the Dangerous Waste Permit. The following General Arrangement Drawings are submitted to replace the permitted General Arrangement Drawings currently in Appendix 10.4.

Appendix 10.4

Replace:	With:
24590-HLW-P1-P01T-P0001, Rev. 6	24590-HLW-P1-P01T-00001, Rev. 7
24590-HLW-P1-P01T-P0002, Rev. 3	24590-HLW-P1-P01T-00002, Rev. 6
24590-HLW-P1-P01T-P0004, Rev. 0	24590-HLW-P1-P01T-00004, Rev. 6
24590-HLW-P1-P01T-P0005, Rev. 0	24590-HLW-P1-P01T-00005, Rev. 5
24590-HLW-P1-P01T-P0008, Rev. 7	24590-HLW-P1-P01T-00008, Rev. 11
24590-HLW-P1-P01T-P0009, Rev. 6	24590-HLW-P1-P01T-00009, Rev. 11
24590-HLW-P1-P01T-P0010, Rev. 6	24590-HLW-P1-P01T-00010, Rev. 11
24590-HLW-P1-P01T-P0011, Rev. 7	24590-HLW-P1-P01T-00011, Rev. 11

This modification requests Ecology approval and incorporation into the permit the specific changes to these General Arrangement drawings that are identified by notes, clouds, and revision triangles shown on the General Arrangement drawings that have been issued since the last revision of the permit version. Revisions are the result of ongoing design and changes to notes, tags, and holds. The following identifies the significant types of design changes on the attached drawings:

HLW Vitrification Building General Arrangement Plan at El -21'-0" (24590-HLW-P1-P01T-00001):

- Reconfigured doorways in H-B004, HCB006, and H-B020
- Increased wall thickness in H-B051
- Added steel columns for supporting El. 0'
- Removed pump PCW-PMP-00002B (see DCN 24590-HLW-P1N-P01T-00178)

HLW Vitrification Building General Arrangement Plan at El 0'-0" (24590-HLW-P1-P01T-00002):

- Reconfigured ladder in H-0130, doorways in H-0135, and doors/stairs to the outside of building
- Switched tags on sumps HSH-SUMP-00009 (Room H-0304A) and HSH-SUMP-00008 (Room H-0310A) for consistency with other issued design documents
- Updated depiction of HEPA filters in H-0104, Activated Carbon Adsorbers in H-A123, and IHLW canisters in H-0132
- Added Argon supply skid HMP-SKID-00003 (grid T4)
- Added tag HCH15 on pipe chase
- Removed equipment associated with the deleted HCP-VSL-00001/00002

HLW Vitrification Building General Arrangement Plan at El 37'-0" (24590-HLW-P1-P01T-00004):

- Reconfigured platforms, racks, and ladders (e.g., in H-0127, HP0302, HP0304, H-0330)
- Updated rooms H-0303 and H-0309
- Deleted autosampling cabinets ASX-SMPLR-00026 and ASX-SMPLR-00041

HLW Vitrification Building General Arrangement Plan at El 58'-0" (24590-HLW-P1-P01T-00005):

- Modified HVAC equipment configuration (C2 air handling units, C3 fans and C3 HEPA filters)
- Added and/or reconfigured rooms H-0401, H-0406, H-0407, H-0408, H-0424 through H-0426, H-0428, H-0433, and H-0434
- Modified configuration of offgas and PJV fans in H-0424 and H-0429
- Reconfigured/added doorways (e.g., in H-0415, H-0433) and platforms (e.g., HP0394, HP0310, HP0313, HP0401, HP0414)

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The General Arrangement section drawings 24590-HLW-P1-P01T-00008 (Sections A-A, B-B & C-C), 24590-HLW-P1-P01T-00009 (Sections D-D, E-E, & F-F), 24590-HLW-P1-P01T-00010 (Sections G-G & H-H) and 24590-HLW-P1-P01T-00011 (Sections J-J & K-K) have been revised to reflect the changes described above, as applicable.

The following is a list of outstanding change documents against drawings 24590-HLW-P1-P01T-00001 and 24590-HLW-P1-P01T-00002 that have not been incorporated into this modification:

- 24590-HLW-P1N-P01T-00177
- 24590-HLW-P1N-P01T-00178

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

Enter Relevant WAC 173-303-830, Appendix I Modification citation number: **A.1. and A.3.**
 Enter wording of WAC 173-303-830, Appendix I Modification citation:

A. General Permit Provisions

1. Administrative and informational changes
3. Equipment replacement or upgrading with functionally equivalent components (e.g., pipes, valves, pumps, conveyors, controls)

Modification Approved: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (state reason for denial) <u>Reason for denial:</u>	Reviewed by Ecology:	
	<i>Samuel Dabo</i> for B. Becker-Khaleel	6-11-08 Date

¹ Class 1 modifications requiring prior Agency approval.

² 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 a Class '1, if applicable.