



DEPARTMENT OF
ECOLOGY
State of Washington

Response to Comments

**Modification of the *Hanford Facility*
Resource Conservation and Recovery Act
Permit for the Treatment, Storage, and
Disposal of Dangerous Waste, Part III,
Operating Unit Group 10 (WA7890008967)
Waste Treatment and Immobilization Plant
June 4 – July 20, 2012**

Summary of a public comment period and responses to comments

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Publication and Contact Information

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Response to Comments

Modification of the *Hanford Facility Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit Group 10 (WA7890008967)* Waste Treatment and Immobilization Plant

June 4 – July 20, 2012

Department of Ecology
Nuclear Waste Program
3100 Port of Benton Boulevard
Richland, Washington 99354

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Introduction

The Washington State Department of Ecology's Nuclear Waste Program (NWP) manages dangerous waste within the state by writing permits to regulate its treatment, storage, and disposal. When a new permit or a significant modification (see [Washington Administrative Code \[WAC\] 173-303-830](#) for types of permit changes) to an existing permit is proposed, NWP holds a public comment period to allow the public to review the change and provide formal feedback.

The Response to Comments is the last step before issuing the final permit. Its purpose is to:

- Specify which provisions, if any, of a permit will become effective upon issuance of the final permit, providing reasons for those changes.
- Describe and document public involvement actions.
- List and respond to all significant comments received during the public comment period and any related public hearings.

This Response to Comments is for:

Comment period: Waste Treatment Plant Design Changes, June 4 – July 20, 2012

Permit: *Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit Group 10 (WA7890008967), Waste Treatment and Immobilization Plant*

Original issuance date: September 27, 1994

Modification effective: August 30, 2012

To see more information related to the Hanford Site or nuclear waste in Washington, please visit our website: www.ecy.wa.gov/programs/nwp.

Reasons for Issuing the Permit

NWP prepared a draft permit modification that incorporates new and modified design information for the *Hanford Facility RCRA Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant (WTP)*, hereafter called the “WTP Permit.”

This permit modification is important because it allows WTP construction to continue. WTP is essential to cleaning up the 56 million gallons of highly radioactive and chemical waste currently being stored in 177 underground storage tanks at the Hanford Site.

The proposed changes include three permit design packages and two other documents. The design packages will allow new construction in the Low-Activity Waste (LAW) and High-Level Waste (HLW) facilities. The two documents detail new information and design changes to the LAW, HLW, and Pretreatment (PT) facilities.

Three WTP design packages proposed

The proposed changes include the following three permit design packages that will allow new construction in the LAW and HLW facilities.

LAW Vitrification Facility Secondary Offgas/Vessel Vent Process System HEPA Filter Housings, Package LAW-026B, Revision 0

Permit Package LAW-026B addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing subsystems at the +48-foot elevation.

In the proposed LVP system, offgas from the LAW Facility's two melters is combined with gasses that have vented from mixing tanks in the LAW Facility. The combined offgas is then heated in the melter offgas HEPA preheaters to change it from liquid to vapor. This process keeps moisture in the offgas from condensing in the HEPA filter. The heated offgas then passes through HEPA filters to remove particulates.

The activated carbon adsorption units treat the offgas to remove mercury, iodine, and acid gasses. The offgas then passes through several steps for further treatment. Any liquid discharge from this process recirculates through the LAW caustic collection tank. The treated offgas is released to the atmosphere through the LAW stack.

This permit package includes a report signed by an independent, qualified, registered professional engineer (IQRPE) certifying the design of the LVP HEPA filter housings, a mechanical data sheet for the LVP safe change LVP HEPA filter housing, and change documents issued against the HEPA filter housing mechanical data sheets.

Miscellaneous Unit Subsystem for LVP System (Activated Carbon Bed Adsorbers), Package LAW-027, Revision 0

Permit Package LAW-027 affects the LVP system described in the previous section. The design package contains a report signed by an IQRPE that assesses the integrity of two activated carbon bed adsorbers (also known as *mercury mitigation equipment*). The purpose of the carbon bed adsorbers is to remove mercury, iodine, and acid gasses from the offgas.

This permit package also contains revised piping and instrument diagrams, a mechanical data sheet, a corrosion evaluation for the activated carbon bed adsorbers, and the system description for the LAW Primary Offgas and LVP systems.

Tank System Secondary Containment for HLW Autosampling System (ASX) Sampler Cabinets, Package HLW-039, Revision 0

Permit Package HLW-039 includes the design of leak-containing liners for three ASX sampler cabinets at elevation 37 feet, 0 inches in the HLW Facility.

The sampler cabinets will routinely sample the waste stream being processed. This remote sampling method helps ensure worker safety by keeping WTP employees from contacting the

waste. The collected samples will be tested to determine whether waste is being treated to the correct specifications.

The sampler cabinets have upper and lower liners to contain potential leaks. The stainless-steel liners are sloped and divert leaks to collection areas. When liquid is detected in one of the collection areas, a leak detection system will alert WTP employees.

This permit package includes a report signed by an IQRPE certifying the structural integrity of the HLW sampler cabinets.

Two documents proposed

The following two documents detail new information and design changes to the LAW, HLW, and PT facilities.

Design Requirements for Wall Coatings and Containment Sumps in the PT Facility, Correspondence Control Number (CCN) 239270

The proposed revisions in this document will change how liquid wastes are contained in the hot cell and remote decontamination maintenance cave in the PT Facility.

Hot Cell

The hot cell floor will provide secondary containment for tank systems in the hot cell and in the attached black cells. The floor will also provide primary containment for spills that occur during maintenance activities.

Jumpers (pipe connectors) that can be moved remotely are used to connect piping located in areas where workers are normally not allowed, such as the hot cell. The jumpers will be flushed with process water after use. After the process water flush, when the jumper is disconnected, some residual flush water will spill onto the floor.

Jumper change-outs are expected to average two per week. The estimated flush water spilled to the floor is 30 to 150 gallons. About once every three years, changing out a piece of equipment in the hot cell will cause about 200 to 300 gallons of liquid spilled on the floor. Spills will flow down the sloped floor into a primary containment sump for transfer to a Plant Wash and Disposal (PWD) System tank.

The hot cell floor will be lined with fully grouted, stainless-steel plate. To protect the stainless-steel plate from damage, equipment will not be placed directly on the floor.

Instead, equipment will be placed on a platform.

The following changes are proposed for the hot cell:

- Reclassify three secondary containment sumps in the PWD System to primary containment sumps.
- Add a new miscellaneous unit to manage liquid waste on the hot cell floor.

- Remove the requirement for the hot cell walls above the stainless-steel liner plate to have a waterproof coating because spray decontamination activities are not planned in the room.

Remote Decontamination Maintenance Cave

The remote decontamination maintenance cave (hereafter referred to as “the cave”) floor will provide secondary containment for a PT In-Cell Handling (PIH) System tank, which is located in the cave. The cave floor and portions of the walls will also provide primary containment for spray decontamination activities. The cave floor and walls, to about 17 feet in elevation, will be lined with fully grouted, stainless-steel plate. To protect the stainless-steel plate from damage, equipment in the cave will be placed on turntables or platforms.

The following changes are proposed for the cave:

- Add a new miscellaneous unit (called the Spray Decontamination and Sizing System) that will decontaminate, repair, and reduce the size of failed equipment. Decontamination may include any combination of swabs and sprays (plant water, carbon dioxide pellets, steam, and/or nitric acid). Spent decontamination solution will flow down the sloped floor into a primary containment sump, for transfer to a PWD System tank.
- Reclassify two PWD System sumps from secondary containment sumps to primary containment sumps, for transferring decontamination solution to a PWD System tank.
- Change the requirement that the cave walls above the stainless-steel plate have a waterproof coating. The walls will only be coated above the stainless-steel plate to about 27 feet in elevation. The coating will be applied during construction, and will be compatible with the decontamination solutions used in the cave. Administrative controls will minimize the over spray of decontamination solution to the walls above the stainless-steel plate.

Safe Operation of Cranes in the LAW and HLW Facilities, CCN 239273

This document addresses two compliance schedule items in the WTP Permit. NWP is developing the WTP permit using a phased approach that allows the co-permittees to construct each component after it is approved, even though the entire WTP design is not finished. We made this decision to expedite WTP construction. As part of this agreement, we have written a compliance schedule that lists items the co-permittees must address before WTP can begin operating.

Specifically, CCN 239273 describes how the co-permittees will safely operate two LAW and seven HLW cranes. As required in Compliance Schedule Item 38, the description covers the following:

- Clear travel path for the bridge and trolley.
- Upper and lower hook travel limits.
- Two-blocking prevention.
- Hook load limits.

- Wire rope misreeling.
- Controls to prevent the crane's speed from exceeding safe operating limits.

Compliance Schedule Item 39 requires the co-permittees to show that proper crane operation will not damage the regulated tank systems, miscellaneous unit systems, or vitrified waste.

Technical and regulatory details of the permit modification are provided in the Statement of Basis in Appendix A.

Public Involvement Actions

NWP encouraged public comment on the draft WTP Permit modification during a 45-day public comment period held June 4 through July 20, 2012.

A public notice announcing the comment period was mailed to 812 interested members of the public. A public announcement legal classified advertisement was placed in the *Tri-City Herald* on June 3, 2012. A notice announcing the start of the comment period was sent to the [Hanford Information email list](#). The comment period was also posted on NWP's [public comment period webpage](#).

The public information repositories located in Richland, Spokane, and Seattle, Washington, and Portland, Oregon, received the following:

- Public notice.
- Transmittal letter.
- Statement of Basis for the proposed WTP Permit Modification.
- Draft WTP Permit Modification.

The following information in Appendix A shows the public involvement actions taken in support of this comment period:

1. Statement of Basis.
2. Public notice (focus sheet).
3. Classified advertisement in the *Tri-City Herald*.
4. Notice sent to the Hanford Information email list.
5. Posting on NWP's public comment period webpage.
6. Ecology letter documenting the final WTP Permit decision.

Response to Comments

NWP accepted comments from June 4 until July 20, 2012. No comments were received, and no members of the public requested a meeting.

Appendix A

Public involvement documents supporting this comment period:

1. Statement of Basis.
2. Public notice (focus sheet).
3. Classified advertisement in the *Tri-City Herald*.
4. Notice sent to the Hanford Information email list.
5. Posting on NWP's public comment period webpage.
6. NWP letter documenting the final WTP Permit decision.



DEPARTMENT OF
ECOLOGY
State of Washington

Statement of Basis

**For Modification of
The Dangerous Waste Portion, Revision 8C, of the
*Hanford Facility Resource Conservation and Recovery Act Permit
For the Treatment, Storage, and Disposal of Dangerous Waste, Part III,*
Operating Unit 10 (WA7890008967),
Waste Treatment and Immobilization Plant**

June 2012

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Statement of Basis
For Modification of the Dangerous Waste Portion, Revision 8C, of the
Hanford Facility Resource Conservation and Recovery Act Permit
For the Treatment, Storage, and Disposal of Dangerous Waste, Part III,
Operating Unit 10 (WA7890008967),
Waste Treatment and Immobilization Plant

Permittees

United States Department of Energy
(Owner/Operator)
Office of River Protection
PO Box 450
Richland, Washington 99352

Bechtel National, Inc.
(Co-Operator for Waste Treatment Plant)
2435 Stevens Center Place
Richland, Washington 99354

The Washington State Department of Ecology (Ecology) has developed this Statement of Basis in accordance with the requirements of Washington Administrative Code (WAC) 173-303-840(2)(f)(iv). Its purpose is to present information on Ecology's decision to modify the *Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste, Part III, Operating Unit 10, Waste Treatment and Immobilization Plant (WTP)*, hereafter called the "WTP Permit."

This modification includes supporting technical information and engineering drawings for construction on the regulated portions of the WTP Pretreatment Facility (PTF), Low-Activity Waste (LAW) Facility, High-Level Waste (HLW) Facility, Laboratory (LAB) Facility, and Balance of Facilities (BOF). In addition, this modification incorporates format changes to the WTP Permit appendices and changes to supporting information. Ecology has elected to prepare a Statement of Basis, pursuant to WAC 173-303-840(2)(f)(iv) rather than a Fact Sheet. A Statement of Basis was prepared for previous major WTP Permit modifications.

This Statement of Basis is divided into four sections:

- 1.0 Hanford Facility Permit Background
- 2.0 The WTP Permitting Process
- 3.0 Procedures for Reaching a Final Decision on the Draft Permit Modification
- 4.0 Proposed Modifications to the WTP Permit

Tables submitted by the Permittees for incorporation into the WTP Permit are at the end of this document.

1.0 Hanford Facility Permit Background

Ecology initially issued the *Hanford Facility Dangerous Waste Permit for the Treatment, Storage, and Disposal of Dangerous Waste Revision 9, WA7890008967* (Site-wide Permit) in 1994. The Site-wide Permit provides standard and general facility conditions, as well as unit-specific conditions for the operation, closure, and post-closure care of mixed and dangerous waste Treatment Storage and Disposal (TSD) units at Hanford. Approximately 40 TSD units at Hanford are operating or closing under RCRA final status standards.

Conditions of the Site-wide Permit are presented in six parts:

- Standard Conditions (Part I)
- General Facility Conditions (Part II)
- Unit-Specific Conditions for Final Status Operating Units (Part III)
- Corrective Action for Past Practice Units (Part IV)
- Unit-Specific Conditions for Units Undergoing Closure (Part V)
- Unit-Specific Conditions for Units in Post-Closure (Part VI)

The WTP Permit is in Part III of the Site-wide Permit. The WTP Permit is normally modified as needed, typically one or more times a year to incorporate newly permitted units; reflect Class 1, 2, 3, and Agency-Initiated modifications; and include minor changes in grammar, consistency, and presentation. The Washington State Dangerous Waste Regulations in WAC 173-303-830 describe the types of changes or modifications that may be made to a Dangerous Waste Permit (DWP) issued by Ecology.

The WTP TSD Unit was added to the Unit-Specific Conditions for Final Status Operating Units (Part III) of the Site-wide Permit on September 25, 2002. The WTP Permit portion was effective on October 25, 2002. The WTP TSD Unit is currently being constructed under final status standards.

The entire [*Hanford Facility Resource Conservation and Recovery Act \(RCRA\) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste*](#), of which WTP is part, is open for public comment from May 1 to September 30, 2012. The version of the WTP Permit that is available as part of that comment period is up-to-date as of June 2011. However, because WTP construction must continue, we have another “active” version of the WTP Permit Ecology is modifying, which is what will be included in the comment period that runs June 4 through July 20, 2012.

2.0 The WTP Permitting Process

The permitting of the WTP TSD Unit is using a phased (or stepped) approach. The first phase was completed on September 25, 2002, with issuance of a final DWP allowing construction of the WTP LAW, PTF, HLW, LAB, and BOF facilities to commence. A WTP Interim Compliance Schedule for United States Department of Energy (USDOE) also provides additional detailed information to Ecology addressing the submittal of information necessary for construction support of the rest of the WTP TSD Unit and eventual operation.

The second phase of permitting is implementation of the compliance schedule, which requires design and other information to be submitted for Ecology approval before regulated portions of the WTP TSD Unit are constructed.

The third phase of permitting is implementation of the last portion of the compliance schedule, which requires updating portions of the DWP application and then modifying the WTP Permit prior to facility start-up operations. These portions of the WTP Permit are operational in nature and cannot be completed before the design is nearly complete (Contingency Plan, Closure Plan, and Training Plan).

At completion of the three phases of permitting, the WTP TSD Unit will comply with all the applicable requirements of WAC 173-303 and, after receiving written permission from Ecology, can begin treatment and storage of dangerous and mixed waste.

The design submittals (second permitting phase described above) were structured to allow the Permittees to provide design information in roughly the same order as the WTP facilities are constructed.

The design packages start at the lowest level of the facilities (below-grade levels) and are submitted for regulated areas of each level of the facility before construction begins. This process was adjusted for some design packages. When the facility process systems are installed on more than one level, then the design packages will address the associated components for each level. This prevents confusion caused by one process system description being segmented into multiple design packages.

The WTP Permit organizes design packages into three general groups by the type of regulated equipment:

1. Primary containment (for example, tanks, miscellaneous units [evaporators and melters], and containment buildings).
2. Secondary containment.
3. Other associated regulated equipment (for example, ancillary equipment, equipment associated with miscellaneous units, and instrumentation).

Using tank systems as an example, secondary containment packages include details of the design of secondary containment that must be in place in regulated areas when the floors and walls are built for that level of each facility (floor slope, sump location). The installation of tanks and other large equipment usually follows construction of the floors and walls. Therefore, a tank package on that level will be included in the WTP Permit before installation (for example, structural details for those tanks or miscellaneous units showing nozzle locations, unit volumes, and tank shell thickness).

The last equipment usually installed on a level for a tank system is the ancillary equipment (for example, piping, pumps, process instrumentation, and electrical equipment). Therefore, the ancillary equipment package that provides details for equipment on that level will be included in the WTP Permit before installation (for example, materials of construction and pump types and their operating limits).

With each WTP facility consisting of multiple levels, the total number of design packages is large. Of the estimated 180 total design packages, approximately 40 remain to be incorporated into the WTP Permit.

The primary containment, secondary containment, and the other associated regulated equipment packages for different levels require repetitive information submittals in each package. Using tank systems as an example, most tanks will use the same construction specifications. The WTP Permit allows the Permittees to reference the previously submitted design information. Therefore, some design packages consist mostly of references to information already provided.

Ecology is authorized, pursuant to WAC 173-303-830(4)(e), to grant a Temporary Authorization (TA) for the Permittees to start construction on a design package after Ecology approval before the draft permit modification process is complete. A Permittee is allowed to request a TA to implement a modification prior to public notice and comment, pursuant to WAC 173-303-830(4)(e)(ii)(A).

To issue a TA, Ecology must evaluate the modification against the criteria in WAC 173-303-830(4)(e)(ii)(A) and WAC 173-303-830(4)(e)(iii). The term of a TA is limited to 180 days with the potential for Ecology approval of two terms, with a maximum combined duration of 360 days provided the modification could be classified as a Class 2 or 3 modification for the activity covered in the TA (WAC 173-303-830(4)(e)(iv)).

The purpose of a TA is to allow the timely implementation of a permit modification. Construction that takes place under a TA is at the Permittees' risk because public comment may require the Permittees to modify something that is already built. The submittal schedule developed by the Permittees will allow most design packages to undergo public comment and be incorporated into the WTP Permit prior to construction of those areas.

3.0 Procedures for Reaching a Final Decision on the Draft WTP Permit Modification

The Washington State Hazardous Waste Management Act, Chapter 70.105, Revised Code of Washington, and the rules declared in Chapter 173-303 of the WAC, regulate the management of dangerous waste in Washington State. In accordance with WAC 173-303-800, facilities that treat, store, and/or dispose of dangerous waste must obtain a permit for these activities.

As required by WAC 173-303-840(3)(d), draft permit modifications to the WTP Permit will have a 45-day public comment period. The public comment period for this proposed permit modification begins on June 4, 2012, and ends on July 20, 2012. All comments received during the public comment period will be considered and responded to before final decisions are made on the proposed modifications. Regulatory requirements for public notice and involvement on permit modifications are described in WAC 173-303-840(3) and (4).

Comments must be post-marked, received by e-mail, or hand-delivered no later than close of business (5:00 p.m. PST) July 20, 2012. Direct all written comments to:

Erika Holmes
Washington State Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99354
E-mail address: hanford@ecy.wa.gov

Ecology will consider and respond to all written comments submitted by the deadline. Ecology will then make a final permit decision, which will become effective 30 days after Ecology provides notice of the decision to the Permittees and to all who commented. If Ecology's decision includes substantial changes to the WTP Permit because of public comment, we will initiate a new public comment period.

Ecology will provide a Response to Comments document and a notification of the final permit decision to the Permittees and to all members of the public who commented. Ecology's final permit decision may be appealed within 30 days after issuance of the final permit decision.

Copies of the WTP Permit, including the proposed permit modifications, are available for review at the Hanford Public Information Repositories listed below. For additional information, call the Hanford Cleanup Hotline toll-free at 800-321-2008 or email Hanford@ecy.wa.gov.

Hanford Public Information Repositories

Portland

Portland State University
Branford Price Millar Library
1875 Southwest Park Avenue
Portland, Oregon 97207
Contact: Liz Paulus 503-725-4542

Richland

Ecology Nuclear Waste Resource Center
3100 Port of Benton Boulevard
Richland, Washington 99354
Contact: Valarie Peery 509-372-7950

Seattle

University of Washington Suzzallo Library
PO Box 352900
Seattle, Washington 98195
Contact: David Maack 206-543-4664

U. S. Department of Energy

Administrative Record
2440 Stevens Drive, Room 1101
Richland, Washington 99354
Contact: Heather Childers 509-376-2530

Spokane

Gonzaga University Foley Center
502 East Boone Avenue
Spokane, Washington 99258
Contact: Linda Pierce 509-323-6110

U.S. Department of Energy Reading Room
2770 Crimson Way, Room 101L
Richland, Washington 99354
Contact: Janice Parthree 509-372-7443

This Statement of Basis and Focus Sheet for the proposed permit modification is also available online at www.ecy.wa.gov/programs/nwp/commentperiods.htm. If special accommodations are needed for public comment, please contact Erika Holmes, Department of Ecology, at 509-372-7880, or 360-407-6006 (TDD).

4.0 Proposed Modifications to the WTP Permit

This proposed permit modification contains the following packages. New or revised documents submitted with the package are listed below. See Tables 1 through 3 for the entire list of documents.

Package LAW-026B, Revision 0, *Low-Activity Waste Vitrification Facility Secondary Offgas/Vessel Vent Process System (LVP) HEPA Filter Housings*

This permit design package addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing miscellaneous unit subsystems at the +48 foot elevation.

In the LVP system, melter offgas is combined with vessel vent offgas and heated in the melter offgas HEPA preheaters to raise the temperature of the offgas above the dew point. The heated offgas then passes through HEPA filters to remove particulates. The offgas is treated to remove mercury, iodine, and acid gasses (primarily hydrogen chloride and hydrogen fluoride) by activated carbon adsorption units. The offgas then passes through a recuperative heat exchanger, electric heater, and a thermal catalytic reduction unit reduces oxides of nitrogen to nitrogen and water using ammonia. The offgas is directed through the LAW melter offgas caustic scrubber to remove residual acid gasses (primarily sulfur oxides and carbon dioxide) and to provide final offgas cooling. Effluent from the LAW melter offgas caustic scrubber is recirculated through the LAW caustic collection tank (LVP-TK-00001). The treated offgas is discharged to the atmosphere through the LAW stack. Exhausters keep the offgas treatment units under negative pressure and provide the motive force for offgas to flow out of the LAW stack.

This permit package includes a final integrity assessment report signed by an independent, qualified, registered professional engineer (IQRPE) certifying the design of the LVP HEPA filter housings, a mechanical data sheet for the LVP safe change LVP HEPA filter housing, and change documents issued against the HEPA Filter Housing Mechanical Data Sheets.

The complete list of documents is located in Table 1.

Package LAW-027, Revision 0, *Miscellaneous Unit Subsystem for Low-Activity Waste Facility Offgas/Vessel Vent Process (LVP) System (Activated Carbon Bed Adsorbers)*

This permit design package affects the offgas/vessel vent process system. In the LVP system, melter secondary offgas is combined with vessel vent offgas and heated in the melter offgas HEPA preheaters to raise the temperature of the offgas above the dew point. The heated offgas then passes through HEPA filters to remove particulates. The offgas is treated to remove mercury, iodine, and acid gasses by activated carbon adsorption units. The offgas then passes through a recuperative heat exchanger, electric heater, thermal catalytic oxidation (TCO) unit, and selective catalytic reduction unit (SCR). The TCO oxidizes volatile organic compounds and carbon monoxide to water and carbon dioxide, and the SCR reduces oxides of nitrogen to nitrogen and water using ammonia. The offgas is directed through the LAW melter offgas caustic scrubber to remove residual acid gasses (primarily sulfur oxides and carbon dioxide) and to provide final offgas cooling. Effluent from the LAW melter offgas caustic scrubber is recirculated through the LAW caustic collection tank (LVP-TK-00001). The treated offgas is discharged to the atmosphere through the LAW stack.

Exhausters keep the offgas treatment units under negative pressure and provide the motive force for offgas to flow out of the LAW stack.

The design package contains one assessment report signed by an IQRPE. The scope of the integrity assessment includes two Activated Carbon Bed Adsorbers (LVP-ADBR-00001A and LVP-ADBR-00001B, also known as Offgas Mercury Adsorbers).

This permit package also contains revised piping and instrument diagrams (P&IDs), a mechanical data sheet, corrosion evaluation for the activated carbon bed adsorbers, and the system description for the LAW Primary Offgas Process (LOP) System and LVP system, and other documents to update the WTP Permit.

The complete list of documents is located in Table 2.

Package HLW-039, Revision 0, Tank System Secondary Containment for HLW Autosampling System (ASX) Sampler Cabinets

This permit design package addresses the tank system secondary containment design associated with HLW Autosampling System (ASX) sampler cabinets (ASX-SMPLR-00028, ASX-SAMPLR-00029, and ASX-SMPLR-00042). The autosamplers are located in Room H-0305A, H-0315, and H-0318, respectively, at elevation +37'- 0" of the HLW Facility.

The HLW ASX samplers contain both upper and lower secondary containment liners and leak detection systems. The sloped stainless steel upper containment liner is designed to divert a leak from the incoming sample feed and return lines to a sump, where a leak is detected. The sloped stainless steel lower containment area is designed to divert liquids to a sloped collection trough. The trough contains a removable weir that allows liquids to collect and activate the thermal level detection switch and alarms to indicate that a leak may have occurred.

This permit package includes an assessment report signed by an IQRPE certifying the structural integrity of the HLW ASX sampler cabinets.

The complete list of documents is located in Table 3.

CCN 239270 – Proposed Modifications to the Pre-Treatment In-Cell Handling (PIH) System

The proposed revisions concern the management of liquid wastes in the Pre-Treatment Facility (PTF) Hot Cell Containment Building (Room P-0123) and the PTF Maintenance Containment Building (Rooms PM0124, P-0121A, P-0122A, P-0123A, P-0124, P-0124A, P-0125, P-0125A, P-0128, and P-0128A). The changes include revisions to design requirements, extent of wall coatings and new miscellaneous units, and primary containment sumps to manage liquids.

Sections and tables within Chapter 4 and the Operating Unit Conditions of the WTP Permit will be affected by this update. Design changes will be included in a future submittal and will be provided to the public for review.

Pretreatment Hot Cell Containment Building (P-0123)

The Pretreatment Hot Cell Containment Building floor will provide secondary containment for tank systems located in the room, and for tank systems located in adjacent black cells.

The floor will also provide primary containment for spills that occur during jumper change-out and associated maintenance activities.

Jumpers are remotely removable sections of pipe, used to connect equipment located in areas where personnel are normally not allowed. Jumpers used to transfer liquids between equipment will be flushed with process water before the jumper is disconnected. After the process water flush, when the jumper is disconnected from a component, some residual flush water will spill from the jumper onto the floor. Maintenance activities using jumpers are expected to average two per week. The anticipated spill of flush water to the floor, per maintenance activity, is approximately 30 to 150 gallons. About once every three years, an equipment change-out will result in approximately 200 to 300 gallons of liquids spilled to the floor. The spills will be managed in a miscellaneous unit and the primary containment sumps. Spills will flow down the sloped floor into a primary containment sump for transfer to a Plant Wash and Disposal (PWD) system tank.

The hot cell floor will be lined with fully grouted stainless steel plate. To protect the stainless steel plate from damage, objects will not be staged directly on the floor. Objects will be staged on a platform.

The following changes are proposed for the Pretreatment Hot Cell Containment Building.

- Change the classification of three secondary containment sumps, PWD System Sumps PWD-SUMP-00026, PWD-SUMP-00028, and PWD-SUMP-00029 to primary containment sumps.
- Add a new miscellaneous unit to manage liquid waste on the hot cell floor.
- Because spray decontamination activities are not planned for the room, remove the requirement for the hot cell walls, above the stainless steel liner plate, to have an impervious coating.

Pretreatment Facility Remote Decontamination Maintenance Cave (P-0123A)

The floor of the PTF Facility Remote Decontamination Maintenance Cave will provide secondary containment for PIH System tank PIH-TK-00001, which is located in the cave. The room floor and portions of the walls will also provide primary containment for spray decontamination activities. The room floor and the walls, to approximately 17 feet in elevation, will be lined with fully grouted stainless steel plate. To protect the stainless steel plate from damage, objects will be staged on turntables or platforms.

The following changes are proposed for the PTF Remote Decontamination Maintenance Cave.

- Add a new miscellaneous unit. The Spray Decontamination and Sizing System, Miscellaneous Unit will be comprised of the following equipment: Spray Decontamination Turntable PIH-TTBL-00001, Remote Repair Turntable PIH-TTBL-00002, Size Reduction Table PIH-BENCH-00003, portable platform, and various tools consisting of decontamination spray lances, cutting tools, and a hydraulic shear. Remotely controlled decontamination, repair, and sizing activities may be performed at any of the stations or on any platform.

Decontamination activities may consist of any combination of swabs and sprays (plant water, carbon dioxide pellets, steam, and/or nitric acid). Spent decontamination solution will flow down the sloped floor into a primary containment sump, for transfer to a PWD system tank.

- Change the classification of PWD System Sumps PWD-SUMP-00032 and PWD-SUMP-00033 from secondary containment sumps to primary containment sumps, for transfer to a PWD system tank.
- The requirement for the remainder of the room walls, above the stainless steel plate, to have an impervious coating will be changed to coat only the wall area above the stainless steel plate to the bottom of the runway beam support (approximately 27 feet in elevation), for In-Cell Bridge Crane PIH-CRN-00004. The coating will be applied during construction and will be compatible with the decontamination solutions used in the room. Administrative controls will also be in place to minimize the over spray of decontamination solution to the walls above the stainless steel liner.

CCN 239273 – LAW and HLW Facility Crane Logic Descriptions for the WTP Dangerous Waste Permit – 24590-WTP-PER-ENS-11-001, Revision 0

This document describes the implementation of the reference permit conditions III.10.C.15.a.ii.A and III.10.C.15.a.ii.B for two LAW cranes and seven HLW cranes listed in permit condition III.10.C.15.a.i.B.

Permit condition III.10.C.15.a.ii.A specifies that the Permittees submit equipment instrument logic narrative description related to safe operation of equipment covered by III.10.C.15.a.i.B, including, but not limited to, allowed travel path for bridge and trolley, upper and lower hook travel limits, two-blocking prevention, hook load limits, wire rope misreeling, and overspeed protection (Compliance Schedule Item 38). Permit condition III.10.C.15.a.ii.B specifies that the Permittees submit descriptions of operational procedures demonstrating appropriate controls and practices are in place to ensure equipment covered by III.10.C.15.a.i.B will be operated in a safe and reliable manner that will not result in damage to regulated tank systems, miscellaneous unit systems, or canisters of vitrified waste (Compliance Schedule Item 39).

This document will be added to the WTP Permit in Appendix 7.13.

4.1 Incorporation of Class 1 and Class ¹1 WTP Permit Modifications

This proposed WTP Permit modification incorporates the Class 1 and Class ¹1 WTP Permit modifications listed below. These were previously approved by Ecology in accordance with WAC 173-303-830(4)(a) and are listed here as a courtesy.

- 24590-LAW-PCN-ENV-11-001, Class ¹1 Modification provides updated P&IDs for the LAW Melter Process System in Appendix 9.2.
- 24590-LAW-PCN-ENV-11-004, Class ¹1 Modification provides updated P&IDs for the LAW Concentrate Receipt Process System in Appendix 9.2.
- 24590-HLW-PCN-ENV-11-006, Class 1 Modification provides updated P&IDs for the HLW Radioactive Liquid Waste Disposal System in Appendix 10.2.

- 24590-HLW-PCN-ENV-12-001, Class ¹1 Modification provides updated Engineering Specification 24590-HLW-3PS-MQR0-T0002, for the HLW Canister Decontamination Handling System Canister Rinse Bogie in Appendix 10.7.
- 24590-PTF-PCN-ENV-10-030, Class ¹1 Modification provides updated mechanical data sheets for the Pretreatment Facility Waste Feed Evaporation Process and Treated LAW Evaporation Process condensers and reboilers in Appendix 8.6.
- 24590-PTF-PCN-ENV-10-036, Class ¹1 Modification provides updated mechanical data sheets and the equipment assembly drawings for the PTF Ultrafiltration Feed Preparation Vessels. It also provides four new equipment drawings in Appendix 8.6.
- 24590-PTF-PCN-ENV-11-007, Class ¹1 Modification provides updated P&IDs for the PTF Waste Feed Receipt Process System Vessels FRP-VSL-00002A, FRP-VSL-00002B, FRP-VSL-00002C, FRP-VSL-00002D, the associated Utility System Plant Service Air Rack PSD-RK-00014, and the Vessel Pulse Jet Mixers in Appendix 8.2.
- 24590-PTF-PCN-ENV-11-008, Class ¹1 Modification provides updated P&IDs for the PTF Cesium Nitric Acid Recovery Process Cesium Evaporator Separator Vessel. Updated equipment include the Cesium Evaporator Concentrate Reboiler; Ejectors and Condensers; Rectifier; Pump; and Filter in Appendix 8.2.
- 24590-PTF-PCN-ENV-11-010, Class ¹1 Modification provides updated P&IDs for the PTF pumps FRP-PMP-00001 and FRP-PMP-00002A and Utility System Plant Service Air Racks in Appendix 8.2.
- 24590-PTF-PCN-ENV-11-012, Class ¹1 Modification provides updated PTF Equipment Assembly Drawings for vessel HLP-VSL-00022 in Appendix 8.6.
- 24590-WTP-PCN-ENV-11-006, Class ¹1 Modification provides an updated Engineering Specification 24590-WTP-3PS-MWK0-T0001 for the HLW and LAW Activated Carbon Bed Adsorber in Appendix 7.7.

4.2 Supplemental Design Information

Tables 1 through 3 list the design information included in this proposed permit modification, and the proposed location in the WTP Permit. At issuance of the final WTP Permit decision, Ecology will specify where each drawing or report resides in the WTP Permit.

Paper copies of the page changes to the WTP Permit that result from this modification will be placed in the Administrative Record. To minimize paperwork, duplicate sets of drawings will not be issued to the Permittees at issuance of the final permit decision, unless drawing changes are made as a result of public comment.

The letter issuing the final WTP Permit decision to the Permittees and Hanford contractors will include the current WTP Permit with the modifications on a DVD.

4.3 Identifying Changes in this Proposed WTP Permit Modification

As the WTP TSD Unit is constructed, Ecology will modify the WTP Permit for many reasons, including to clarify text, add new conditions, delete existing conditions, correct errors, or add additional information. To communicate the changes, proposed permit modifications will include page changes showing all significant proposed changes to the WTP Permit. The text to be deleted will be struck-out with a single line, and the new text will be double-underlined. Only the text being changed in the current modification will be indicated by double-underlines and strikeouts.

Newly added documents and drawings are provided for review in this proposed permit modification. New document and drawing numbers and titles are shown in bold text in the affected appendix drawing lists.

At issuance of the WTP Permit modification, “clean” pages incorporating permit modifications will be issued to the Permittees and placed in the Administrative Record. All double-underlines and strikeouts will be removed. Documents and drawings listed in the appendices will not be bolded and will be incorporated by reference only.

In Ecology publication number 07-05-006, *Responsiveness Summary* (September 27, 2007), Ecology explained the reason for replacing permit version documents with source documents to which the WTP is constructed. Source documents are in a state of constant revision as design details are finalized and additional information is added to provide clarity and to correct typographical errors. Changes not yet incorporated into source documents are tracked by the Permittees using Document Change Notices (DCNs). In some cases, DCNs are issued at the time of Ecology’s review. These are not provided for public comment but will appear in the next revision of the WTP Permit for review. Source documents have been replacing permit version documents since September 2007.

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Table 1 – Design Information Submitted by Permittees for Incorporation into the WTP Permit

**Design Package No. LAW-026B, Revision 0
Miscellaneous Unit Subsystem for LAW Facility LVP System
(HEPA Filter Housings)**

Table of Contents

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Conditions	Included	Remarks
IQRPE Independent Assessment Report	IA-3006866-000 / 24590-CM-HC4-HXYG-00240-01-00007	0	III.10.H.5.c.i	Y	Incorporate IQRPE report into Appendix 9.11
Permit Drawings					
General Arrangement Plan	24590-LAW-P1-P01T-00005	4	III.10.H.5.c.ii	N	Included in Appendix 9.4
General Arrangement Section	24590-LAW-P1-P01T-00009	8	III.10.H.5.c.ii	N	Included in Appendix 9.4
Process Flow Diagram (PFD)	24590-LAW-M5-V17T-P0010 24590-LAW-M5N-V17T-00012 24590-LAW-M5N-V17T-00029	2	III.10.H.5.c.ii	N	Included in Appendix 9.1 DCNs issued since the last version of the WTP Permit document was provided in LAW-027

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Conditions	Included	Remarks
Piping & Instrumentation Diagram (P&IDs)	24590-LAW-M6-LVP-00001001 24590-LAW-M6-LVP-00001002 24590-LAW-M6-LVP-00001003 24590-LAW-M6-LVP-00001004 24590-LAW-M6-LVP-00001005 24590-LAW-M6-LVP-00001006 24590-LAW-M6-LVP-00002001 24590-LAW-M6-LVP-00002002 24590-LAW-M6-LVP-00002003 24590-LAW-M6-LVP-00002004 24590-LAW-M6-LVP-00002005 24590-LAW-M6-LVP-00002006 24590-LAW-M6-LVP-00003001 24590-LAW-M6-LVP-00004001 24590-LAW-M6-LVP-00004002 24590-LAW-M6-LVP-00004003 24590-LAW-M6-LVP-00005001 24590-LAW-M6-LVP-00005002	0	III.10.H.5.c.ii	N	Included LAW-027 WTP Permit package for final approval
Mechanical Drawings					
HEPA Filter Housing	See Remarks	-	III.10.H.5.c.ii III.10.H.5.c.vi	N	See above P&ID 24590-LAW-M6-LVP-00001003, Revision 0, <i>LAW Secondary Offgas/Vessel Vent Process System HEPA Filters</i> for physical attributes
Engineering Specifications					
Engineering Specification for Nuclear Grade HEPA Filters (ASME AG-1 Section FK Filters)	24590-WTP-3PS-MKH0-T0002	3	III.10.H.5.c.ii III.10.H.5.c.iii III.10.H.5.c.vi	N	Included in Appendix 7.7

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Conditions	Included	Remarks
Mechanical Data Sheets					
Safe Change HEPA Filter (Housing)	24590-LAW-MKD-LVP-00013	2	III.10.H.5.c.ii III.10.H.5.c.vi	Y	Incorporate mechanical data sheet for the Safe Change HEPA Filter Housing into Appendix 9.6 Technical Change Notice issued against datasheet 12/7/10 that changes design and operating pressures provided in milk run CCN 233560 Supplier Deviation Disposition Request issued against datasheet 2/3/10 determined that it is not practical to apply external nozzle load during seismic shaker table tests
Technical Change Notice issued for LVP Filter Housing Data Sheet	24590-QL-MRA-MKH0-00001-T0003	N/A		Y	
Supplier Deviation Disposition Request issued LVP Filter Housing Data Sheet	24590-WTP-SDDR-HV-10-00001	N/A		Y	
Corrosion Evaluations					
HEPA Filters (Housing)	N/A - See Remarks	-		N	Material selection information provided in Mechanical Data Sheet 24590-LAW-MKD-LVP-00013
LAW Vitrification Offgas System Bypass Analysis	24590-LAW-PER-PR-03-001	2	III.10.H.5.c.ix	N	Included in Appendix 9.18
Installation for Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-CON-02-001	6	III.10.H.5.c.x	N	Included in Appendix 7.12

For Incorporation into the Administrative Record

Engineering Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Structural Support Calculations for Off Spec, Non-Standard or Field Fabricated Miscellaneous Treatment Subsystems	Not Applicable - See Remarks	-	III.10.H.5.c.iii	N	There are no Off Spec, Non-Standard or Field Fabricated Miscellaneous Treatment Subsystems in the LAW Facility
System Description for LOP and LVP: LAW Melter Offgas	24590-LAW-3YD-LOP-00001	3	III.10.H.5.c.viii	N	Included in LAW-027 WTP Permit package
Material and Energy Balance	24590-WTP-RPT-PT-02-005	6	III.10.H.5.c.xi	N	ORP letter 11-ESQ-224 dated 10/25/11, Submittal of Mass and Energy Balance Information (CCN 241137)
	24590-WTP-RPT-PET-10-022	0			
	24590-WTP-MRR-PET-10-010	0			
Control of Toxic Vapors and Emissions from WTP Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-PR-03-002	3	III.10.H.5.c.xi	N	ORP letter 07-ESQ-149 dated 8/31/07 (CCN 161097)
Prevention of Hydrogen Accumulation in WTP Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-PR-03-001	1	III.10.H.5.c.xii	N	ORP letter 03-ED-130 dated 8/22/2003 submitted with LAW-029 WTP Permit package (CCN 067539)

Table 2 – Design Information Submitted by Permittees for Inclusion into the WTP Permit

**Design Package No. LAW-027, Revision 0
Miscellaneous Unit Subsystem for LAW Facility LVP System
(Activated Carbon Bed Adsorbers)
Table of Contents**

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Conditions	Included	Remarks
IQRPE Independent Assessment Report	24590-CM-HC4-HXYG-00240-01-00004	00A	III.10.H.5.c.i	Y	Incorporate IQRPE report into Appendix 9.11
Permit Drawings					
General Arrangement Plan at El. 48 ft	24590-LAW-P1-P01T-00005	5	III.10.H.5.c.ii	N	In Appendix 9.4
General Arrangement Sections	24590-LAW-P1-P01T-00007	8			
	24590-LAW-P1-P01T-00011	7		N	
PFDs	24590-LAW-M5-V17T-P0011	1	III.10.H.5.c.ii	N	Update change documents in Appendix 9.1 issued since the last version of the WTP Permit PFDs was incorporated.
	24590-LAW-M5N-V17T-00012	N/A		Y	
	24590-LAW-M5N-V17T-00019	N/A		Y	
	24590-LAW-M5N-V17T-00023	N/A		Y	
	24590-LAW-M5N-V17T-00029	N/A		Y	
P&IDs	24590-LAW-M6-LVP-00001001	0	III.10.H.5.c.ii	Y	Update P&IDs in Appendix 9.2
	24590-LAW-M6-LVP-00001002	0		Y	
	24590-LAW-M6-LVP-00001003	0		Y	
	24590-LAW-M6-LVP-00001004	0		Y	
	24590-LAW-M6-LVP-00001005	0		Y	
	24590-LAW-M6-LVP-00001006	0		Y	
	24590-LAW-M6-LVP-00002001	0		Y	
	24590-LAW-M6-LVP-00002002	0		Y	
	24590-LAW-M6-LVP-00002003	0		Y	
	24590-LAW-M6-LVP-00002004	0		Y	
	24590-LAW-M6-LVP-00002005	0		Y	
	24590-LAW-M6-LVP-00002006	0		Y	
	24590-LAW-M6-LVP-00003001	0		Y	
	24590-LAW-M6-LVP-00004001	0		Y	
	24590-LAW-M6-LVP-00004002	0		Y	
	24590-LAW-M6-LVP-00004003	0		Y	
	24590-LAW-M6-LVP-00005001	0		Y	
	24590-LAW-M6-LVP-00005002	0		Y	

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Conditions	Included	Remarks
Mechanical Drawing for Activated Carbon Bed Adsorber	N/A - See Remarks	-	III.10.H.5.c.ii III.10.H.5.c.vi	Y (see remarks)	Sketch #1 on mechanical data sheet for Activated Carbon Bed Adsorber (24590-WTP-3PS-MVD-LVP-00003, Revision 6
Engineering Specifications					
Positive Material Identification	24590-WTP-3PS-G000-T0002	8	III.10.H.5.c.ii III.10.H.5.c.iii III.10.H.5.c.vi	N	In Appendix 7.7 in 24590-WTP-PCN-ENV-10-003. Approved 3/3/11
Pressure Vessel Fatigue Analysis	24590-WTP-3PS-MV00-T0003	3		N	In Appendix 7.7 in 24590-WTP-PCN-ENV-10-003. Approved 3/3/11
Pressure Vessel Design and Fabrication	24590-WTP-3PS-MV00-T0001	4	III.10.H.5.c.ii III.10.H.5.c.iii III.10.H.5.c.vi	N	In Appendix 7.7 in 24590-WTP-PCN-ENV-10-003. Approved 3/3/11
Seismic Qualification Criteria for Pressure Vessels	24590-WTP-3PS-MV00-T0002	3		N	In Appendix 7.7 in 24590-WTP-PCN-ENV-10-003. Approved 3/3/11
Engineering Specification for Activated Carbon Bed Adsorbers	24590-WTP-3PS-MWK0-T0001	5	III.10.H.5.c.ii III.10.H.5.c.iii III.10.H.5.c.vi	N	In Appendix 7.7 in PCN 24590-WTP-PCN-ENV-11-006. Approved 4/10/12
Mechanical Data Sheet for Offgas Mercury Adsorber (Carbon Bed)	24590-LAW-MVD-LVP-00003	6	III.10.H.5.c.ii III.10.H.5.c.iii III.10.H.5.c.vi	Y	Incorporate mechanical data sheet for Offgas Mercury Adsorber (Carbon Bed) into Appendix 9.6
Secondary Containment Design	24590-WTP-PER-CSA-02-001	10	III.10.H.5.c.ii III.10.H.5.c.iii	N	In Appendix 7.5 in 24590-WTP-PCN-ENV-11-008. Approved 11/3/11
Underground Pipe Protection	Not applicable	-	III.10.H.5.c.iv	N	Not applicable. There are no underground pipes in the LAW facility El. 3 ft and above
Corrosion Evaluation for the Activated Carbon Bed Adsorber	24590-LAW-N1D-LVP-00004	2		Y	Incorporate Corrosion Evaluation for the Activated Carbon Bed Adsorber into Appendix 9.9
LAW Vitrification Offgas System Bypass Analysis	24590-LAW-PER-PR-03-001	2	III.10.H.5.c.ix	N	In Appendix 9.18
Installation of Tank Systems and Miscellaneous Unit Systems	24590-WTP-PER-CON-02-001	6	III.10.H.5.c.x	N	In Appendix 7.12

For Incorporation into the Administrative Record

Engineering Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Structural Support Calculations for Off Spec, Non-Standard or Field Fabricated Miscellaneous Treatment Subsystems	Not Applicable - See Remarks	-	III.10.H.5.c.iii	N	Not applicable. There are no Off Spec, Non-Standard or Field Fabricated Miscellaneous Treatment Subsystems in the LAW Facility
System Description for LOP and LVP: LAW Melter Offgas	24590-LAW-3YD-LOP-00001	3	III.10.H.5.c.vii	Y	Incorporate into the Administrative Record
System Description Change Notice	24590-LAW-3YN-LOP-00011	N/A	III.10.H.5.c.vii	Y	Incorporate SDCN into the Administrative Record
Material and Energy Balance	24590-WTP-RPT-PT-02-005	6	III.10.H.5.c.viii	N	In Administrative Record Office of River Protection (ORP) letter 11-ESQ-224 dated 10/25/11, Submittal of Mass and Energy Balance Information (CCN 241137)
	24590-WTP-RPT-PET-10-022	0			
	24590-WTP-MRR-PET-10-010	0			
Toxic Vapors and Emissions from WTP Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-PR-03-002	3	III.10.H.5.c.xi	N	In Administrative Record (CCN 161097) Class 1' modification to Administrative Record
Prevention of Hydrogen Accumulation in WTP Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-PR-03-001	1	III.10.H.5.c.xii	N	In Administrative Record (CCN 078481) as part of approval of LAW-029

Table 3 – Design Information Submitted by Permittees for Inclusion into the WTP Permit

**Permit Design Package No. HLW-039, Revision 0
Tank System Secondary Containment for HLW ASX Samplers
Table of Contents**

For Incorporation into the WTP Permit

Engineering Document Title	Document Number	Revision	Permit Condition	Included	Remarks
IQRPE Independent Assessment Report	IA-3006928-000/24590-CM-HC4-HXYG-00240-02-00003	0	III.10.E.9.b.i	Y	Include in Operating Unit 10 Appendix 10.11
General Arrangement Plan	24590-HLW-P1-P01T-00004	7	III.10.E.9.b.ii	N	Included in Operating Unit 10 Appendix 10.4
Secondary Containment Design	24590-WTP-PER-CSA-02-001	10	III.10.E.9.b.ii III.10.E.9.b.iii	N	Included in Operating Unit 10 Appendix 7.5
Underground Pipe Protection	N/A	-	III.10.E.9.b.iv	N/A	Not Applicable for the ASX system
Material Selections for Building Secondary Containment/Leak Detection	24590-WTP-PER-M-02-001	3	III.10.E.9.b.v	N	Included in Operating Unit 10 Appendix 7.9
Installation of Tank Systems and Miscellaneous Unit Systems	24590-WTP-PER-CON-02-001	6	III.10.E.9.b.vi	N	Included in Operating Unit 10 Appendix 7.12
Leak Detection in Secondary Containment Systems	24590-WTP-PER-J-02-002	4	III.10.E.9.b.ii III.10.E.9.b.v	N	Included in Operating Unit 10 Appendix 7.5
Description of Access for Conducting Integrity Assessments	24590-WTP-PER-M-02-005	1	III.10.E.9.b.ix	N	Included in Operating Unit 10 Appendix 7.15
Integrity Assessment Program and Schedule for DWP Regulated Equipment in the PTF and HLW Vitrification Facility	24590-WTP-PER-M-08-002	0	III.10.E.9.b	N	Included in Operating Unit 10 Appendix 7.15

For Incorporation into the Administrative Record

Engineering Document Title	Document Number	Revision	Permit Condition	Included	Remarks
Prevention of Hydrogen Accumulation in Tank Systems and Miscellaneous Treatment Unit Systems	24590-WTP-PER-PR-03-001	1	III.10.E.9.b.viii	N	Previously provided with LAW-029, Revision 0 (CCN 067539) dated 8/26/2003, to document compliance with DWP Condition. Note: Revisions to the WTP HPAV strategy are in progress and will require future re-submittal of this document.

Waste Treatment Plant Design Changes

The [Washington State Department of Ecology](#) is proposing a modification to the *Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit*. The modification is to the *Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste* for the Waste Treatment and Immobilization Plant (WTP Permit). The proposed changes are located in Part III, Operating Unit 10.

The co-permittees are:

[U.S. Department of Energy Office of River Protection](#)

P.O. Box 550

Richland, Washington 99352

[Bechtel National, Inc.](#)

2435 Stevens Center Place

Richland, Washington 99354

This proposal is one of many changes to the original WTP Permit. It allows the co-permittees to continue construction while designing other parts of WTP.

The proposed changes include three permit design packages and two other documents. The design packages will allow new construction in the Low-Activity Waste and High-Level Waste facilities. The two documents detail new information and design changes to the Low-Activity Waste, High-Level Waste, and Pretreatment facilities.

We invite you to review and comment on this permit modification. The comment period begins June 4, 2012, and ends July 20, 2012.

WTP overview

WTP has three facilities that will separate and process Hanford's tank waste for long-term disposal:

- [Pretreatment](#) (PT).
- [Low-Activity Waste](#) (LAW) treatment.
- [High-Level Waste](#) (HLW) treatment.

At the heart of both the treatment facilities is [vitrification](#), or immobilizing waste in solid glass. In the PT facility, tank waste is separated into LAW and HLW. The waste is then sent to the appropriate vitrification facility, mixed with glass formers, and piped to large heating containers called melters.

WHY IT MATTERS

The proposed permit changes affect the [Waste Treatment and Immobilization Plant](#) (WTP). WTP will immobilize in glass dangerous radioactive and chemical waste from the 177 aging, underground storage tanks at [Hanford](#). This tank waste has polluted groundwater that flows toward and seeps into the Columbia River, so safely storing it is an important goal to help protect people and the environment.

PUBLIC COMMENT PERIOD

June 4 – July 20, 2012

To Submit Comments

Send comments by e-mail (preferred), U.S. mail, or hand deliver them to:

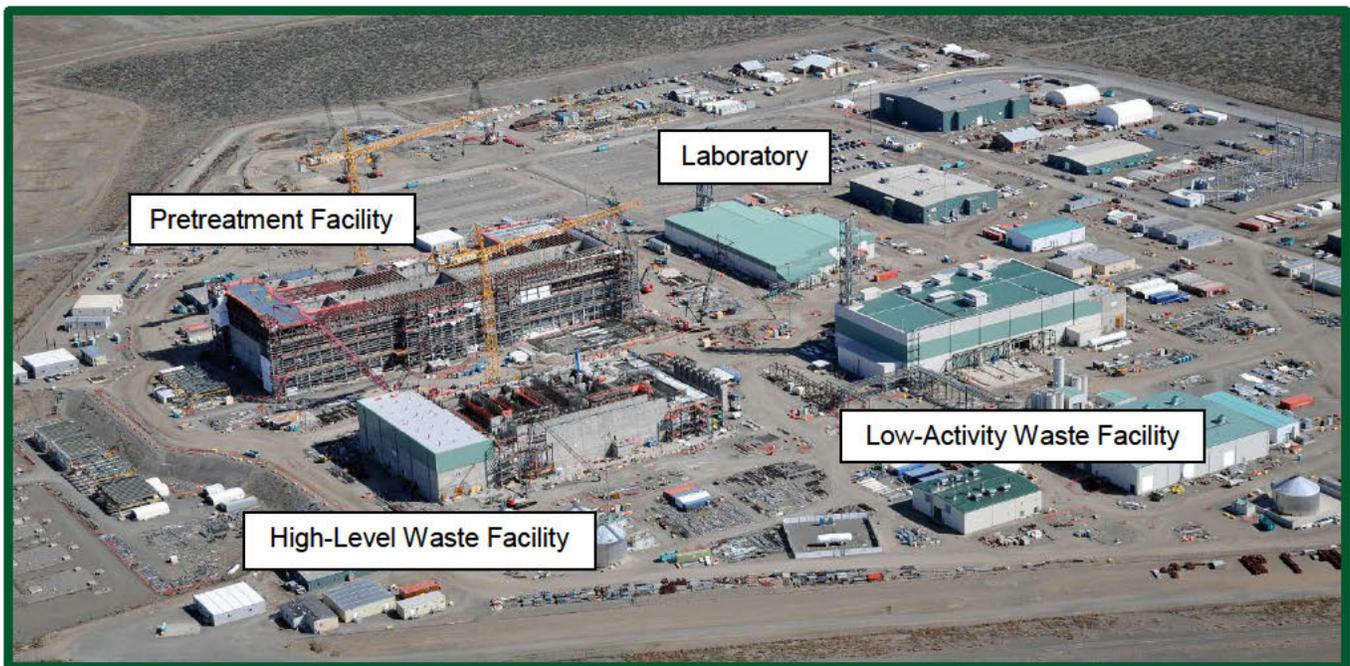
Erika Holmes
3100 Port of Benton Blvd.
Richland, WA 99354
Hanford@ecy.wa.gov

Public Hearing

A public hearing is not scheduled, but if there is enough interest, we will consider holding one. To request a hearing or for more information, contact:

Erika Holmes
509-372-7880
Hanford@ecy.wa.gov

Or call the Hanford Cleanup Line at 800-321-2008.



The Waste Treatment Plant, commonly called the vit plant, in April 2012 (photo courtesy of Bechtel).

During vitrification, the melters will heat tank waste and glass formers to 2,100°F (1,150°C). Then, the molten liquid will be poured and sealed in stainless-steel disposal containers, where it will cool into solid glass logs.

In glass form, the waste is still radioactive. However, it will be extremely durable and waterproof, which will protect people and the environment for thousands of years as the radioactivity decays.

Three WTP design packages proposed

The proposed changes include the following three permit design packages that will allow new construction in the LAW and HLW facilities.

LAW Vitrification Facility Secondary Offgas/Vessel Vent Process System HEPA Filter Housings, Package LAW-026B, Revision 0

Permit Package LAW-026B addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing subsystems at the +48-foot elevation.

In the proposed LVP system, offgas from the LAW Facility's two melters is combined with gasses that have vented from mixing tanks in the LAW Facility. The combined offgas is then heated in the melter offgas HEPA preheaters to change it from liquid to vapor. This process keeps moisture in the offgas from condensing in the HEPA filter. The heated offgas then passes through HEPA filters to remove particulates.

The activated carbon adsorption units treat the offgas to remove mercury, iodine, and acid gasses. The offgas then passes through several steps for further treatment. Any liquid discharge from this process

recirculates through the LAW caustic collection tank. The treated offgas is released to the atmosphere through the LAW stack.

This permit package includes a report signed by an independent, qualified, registered professional engineer (IQRPE) certifying the design of the LVP HEPA filter housings, a mechanical data sheet for the LVP safe change LVP HEPA filter housing, and change documents issued against the HEPA filter housing mechanical data sheets.

Miscellaneous Unit Subsystem for LVP System (Activated Carbon Bed Adsorbers), Package LAW-027, Revision 0

Permit Package LAW-027 affects the LVP system described in the previous section. The design package contains a report signed by an IQRPE that assesses the integrity of two activated carbon bed adsorbers (also known as *mercury mitigation equipment*). The purpose of the carbon bed adsorbers is to remove mercury, iodine, and acid gasses from the offgas.

This permit package also contains revised piping and instrument diagrams, a mechanical data sheet, a corrosion evaluation for the activated carbon bed adsorbers, and the system description for the LAW Primary Offgas and LVP systems.

Tank System Secondary Containment for HLW Autosampling System (ASX) Sampler Cabinets, Package HLW-039, Revision 0

Permit Package HLW-039 includes the design of leak-containing liners for three ASX sampler cabinets at elevation 37 feet, 0 inches in the HLW Facility.

The sampler cabinets will routinely sample the waste stream being processed. This remote sampling method helps ensure worker safety by keeping WTP employees from contacting the waste. The collected samples will be tested to determine whether waste is being treated to the correct specifications.

The sampler cabinets have upper and lower liners to contain potential leaks. The stainless-steel liners are sloped and divert leaks to collection areas. When liquid is detected in one of the collection areas, a leak detection system will alert WTP employees.

This permit package includes a report signed by an IQRPE certifying the structural integrity of the HLW sampler cabinets.

Two documents proposed

The following two documents detail new information and design changes to the LAW, HLW, and PT facilities.

Design Requirements for Wall Coatings and Containment Sumps in the PT Facility, Correspondence Control Number (CCN) 239270

The proposed revisions in this document will change how liquid wastes are contained in the hot cell and remote decontamination maintenance cave in the PT Facility.

Hot Cell

The hot cell floor will provide secondary containment for tank systems in the hot cell and in the attached black cells. The floor will also provide primary containment for spills that occur during maintenance activities.

Jumpers (pipe connectors) that can be moved remotely are used to connect piping located in areas where workers are normally not allowed, such as the hot cell. The jumpers will be flushed with process water after use. After the process water flush, when the jumper is disconnected, some residual flush water will spill onto the floor.

Jumper change-outs are expected to average two per week. The estimated flush water spilled to the floor is 30 to 150 gallons. About once every three years, changing out a piece of equipment in the hot cell will cause about 200 to 300 gallons of liquid spilled on the floor. Spills will flow down the sloped floor into a primary containment sump for transfer to a Plant Wash and Disposal (PWD) System tank.

The hot cell floor will be lined with fully grouted, stainless-steel plate. To protect the stainless-steel plate from damage, equipment will not be placed directly on the floor. Instead, equipment will be placed on a platform.

The following changes are proposed for the hot cell:

- Reclassify three secondary containment sumps in the PWD System to primary containment sumps.
- Add a new miscellaneous unit to manage liquid waste on the hot cell floor.
- Remove the requirement for the hot cell walls above the stainless-steel liner plate to have a waterproof coating because spray decontamination activities are not planned in the room.

Remote Decontamination Maintenance Cave

The remote decontamination maintenance cave (hereafter referred to as “the cave”) floor will provide secondary containment for a PT In-Cell Handling (PIH) System tank, which is located in the cave. The cave floor and portions of the walls will also provide primary containment for spray decontamination activities. The cave floor and walls, to about 17 feet in elevation, will be lined with fully grouted, stainless-steel plate. To protect the stainless-steel plate from damage, equipment in the cave will be placed on turntables or platforms.

The following changes are proposed for the cave:

- Add a new miscellaneous unit (called the Spray Decontamination and Sizing System) that will decontaminate, repair, and reduce the size of failed equipment. Decontamination may include any combination of swabs and sprays (plant water, carbon dioxide pellets, steam, and/or nitric acid). Spent decontamination solution will flow down the sloped floor into a primary containment sump, for transfer to a PWD System tank.
- Reclassify two PWD System sumps from secondary containment sumps to primary containment sumps, for transferring decontamination solution to a PWD System tank.

- Change the requirement that the cave walls above the stainless-steel plate have a waterproof coating. The walls will only be coated above the stainless-steel plate to about 27 feet in elevation. The coating will be applied during construction, and will be compatible with the decontamination solutions used in the cave. Administrative controls will minimize the over spray of decontamination solution to the walls above the stainless-steel plate.

Safe Operation of Cranes in the LAW and HLW Facilities, CCN 239273

This document addresses two compliance schedule items in the WTP Permit. Ecology is developing the WTP permit using a phased approach that allows the co-permittees to construct each component after it is approved, even though the entire WTP design is not finished. We made this decision to expedite WTP construction. As part of this agreement, we have written a compliance schedule that lists items the co-permittees must address before WTP can begin operating.

Specifically, CCN 239273 describes how the co-permittees will safely operate two LAW and seven HLW cranes. As required in Compliance Schedule Item 38, the description covers the following:

- Clear travel path for the bridge and trolley.
- Upper and lower hook travel limits.
- Two-blocking prevention.
- Hook load limits.
- Wire rope misreeling.
- Controls to prevent the crane's speed from exceeding safe operating limits.

Compliance Schedule Item 39 requires the co-permittees to show that proper crane operation will not damage the regulated tank systems, miscellaneous unit systems, or vitrified waste.

View the full proposal

This is a summary of the proposed WTP permit changes. The full proposal is available beginning June 4, 2012, on [Ecology's Nuclear Waste Program website \(www.ecy.wa.gov/programs/nwp/commentperiods.htm\)](http://www.ecy.wa.gov/programs/nwp/commentperiods.htm) or at Hanford's public information repositories (see locations on page 6).

For commenting instructions, please see the sidebar on page 1.

NOTE: The entire [*Hanford Facility Resource Conservation and Recovery Act \(RCRA\) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste*](#), of which WTP is part, is open for public comment from May 1 to September 30, 2012. The version of the WTP permit that is available as part of that comment period is up-to-date as of June 2011. However, because WTP construction must continue, we have another "active" version of the WTP permit that we are modifying, which is what will be included in the comment period that runs June 4 through July 20, 2012.

Public Information Repositories

Ecology Nuclear Waste Resource Center
3100 Port of Benton Blvd.
Richland, WA 99354
Contact: Valarie Peery 509-372-7950

Dept. of Energy Administrative Record
2440 Stevens Drive, Room 1101
Richland, WA 99354
Contact: Heather Childers 509-376-2530

Department of Energy Reading Room
2770 Crimson Way, Room 101L
Richland, WA 99354
Contact: Janice Parthree 509-372-7443

Portland State University
Branford Price Millar Library
1875 SW Park Avenue
Portland, OR 97207
Contact: Liz Paulus 503-725-4542

University of WA Suzzallo Library
P.O. Box 352900
Seattle, WA 98195
Contact: David Maack 206-543-4664

Gonzaga University Foley Center
502 E Boone Avenue
Spokane, WA 99258
Contact: Linda Pierce 509-323-6110

TERMS TO KNOW

Black cell: Area that will handle or process radioactive and chemical waste. During operation, the black cells will be sealed and inaccessible to humans due to high amounts of radiation. Because the equipment in these areas will have no moving parts, they will require no maintenance. The equipment in the black cells is designed to last WTP's lifetime.

Dangerous Waste Permit: A State-issued permit allowing facilities to store, treat, and/or dispose of dangerous waste.

High-level waste: Results from reprocessing spent nuclear fuel. This includes liquid produced during reprocessing and solids derived from this liquid waste that contain fission products in sufficient concentrations and other highly radioactive material that, by law, requires permanent isolation.

Hot cell: Area next to a black cell. WTP's hot cells will be shielded to contain radiation. Any maintenance to equipment in them will be done remotely.

Low-activity waste: Remains after as much radioactivity as is technically and economically practical has been separated from high-level waste. When vitrified, it may be disposed of as low-level radioactive waste in a near-surface facility at Hanford.

Offgas: A gaseous radioactive and hazardous byproduct of tank waste treatment.

Resource Conservation & Recovery Act (RCRA): Law authorizing the U.S. Environmental Protection Agency to manage hazardous waste, including the generation, transportation, treatment, storage, and disposal of hazardous and other solid waste and waste in underground tanks.

Underground storage tank: A tank that is entirely below the surface of and covered by the ground. At Hanford, two types of underground storage tanks have capacities ranging from 50,000 to one million gallons. The single-shell tanks have one steel liner encased in concrete, and do not comply with State environmental laws. The double-shell tanks have two steel liners in concrete and contain potential leaks, in compliance with environmental laws.

Vitrification: Immobilizing waste by mixing it with glass formers and melting the mixture into a glass form that cools into a solid.

Waste Treatment and Immobilization Plant: Facility to thermally treat and vitrify tank waste at Hanford.

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3100 Port of Benton Blvd.
Richland, WA 99354



One of the Department of Ecology's top priorities is protecting the Columbia River.

**Public Comment Period on
Hanford's Waste Treatment Plant**

June 4 – July 20, 2012

Submit questions or comments to:

Hanford@ecy.wa.gov

(See page 1 for more options.)

Special accommodations: If you require special accommodations or need this document in a version for the visually impaired call the Nuclear Waste Program at 509-372-7950.

Persons with hearing loss, call 711 for Washington Relay Service. Persons with a speech disability, call 877-833-6341.

all bids and to waive technicalities or irregularities, and after careful consideration of all bids and factors involved make the award to best serve the interests of the City of Pasco.

DATED: May 24, 2012
Michael A. Pawlak, P.E.
City Engineer
#12-3931, 5/27, 6/17/2012

**CITY OF RICHLAND
NOTICE OF
APPLICATION
AND PUBLIC HEARING
(M2012-102)**

Notice is hereby given that Gramor Development Washington, LLC, on May 22, 2012 filed a request to allow for an increase in building height from 35-feet to 55-feet for a proposed hotel in a Waterfront (WF) zoning district pursuant to the provisions of Richland Municipal Code (RMC) Section 23.22.040. The site is located at 355 Bradley Boulevard, generally east of George Washington Way, west of Bradley Boulevard and north of Comstock Street. Pursuant to Richland Municipal Code (RMC) Section 19.30.030 the City of Richland determined the application complete for processing on May 25, 2012.

The Richland Planning Commission, on Wednesday, June 27, 2012, will conduct a public hearing and review of the application at 7:00 p.m. in Council Chamber at Richland City Hall, 505 Swift Boulevard. All interested parties are invited to attend and present testimony at the public hearing.

Any person desiring to express his views or to be notified of any decisions pertaining to the application should notify Rick Simon, Development Services Manager, 840 Northgate Drive, P.O. Box 190, Richland, WA 99352. Comments may also be faxed to (509) 942-7784 or e-mailed to rsimon@cl.richland.wa.us. Written comments should be received no later than 5:00 p.m. on June 19, 2012 to be included in the material that is distributed to the Planning Commission prior to their meeting.

Copies of the staff report and recommendation will be available in the Development Services Division Office, 840 Northgate Drive and the Richland Public Library beginning Friday June 22, 2012. Copies of the proposed site plan and other information related to the application are available for review at the Richland Development Services Division Office.

The proposed application will be reviewed in accordance with the regulations in RMC Title 19 Development Regulation Administration and Title 23 Zoning. Appeal procedures of decisions related to the above referenced application are set forth in RMC Chapter 19.70. Contact the Richland Development Services Division at the above referenced address with questions related to the available appeal process. Rick Simon, Development Services Manager
#12-3957, 6/3/2012

**CITY OF RICHLAND
WASHINGTON
CALL FOR BIDS**

Notice is hereby given that sealed bids will be received for the City of Richland's Bellerive Drive Reconstruction & Water Main Replacement

Sunnyside Valley Irrigation District (SVID) will accept sealed bids for the purchase of real property located in Yakima County, Washington, and particularly described as:

Parcel Number 231020-21015 (approximately 6.51 acres)
Parcel Number 231020-12009 (approximately 14.71 acres)

Both near the intersection of Cantrell and Franks Roads, Sunnyside WA 98944.

The minimum bid is \$57,750.00 for Parcel 231020-21015 and \$92,400.00 for Parcel 231020-12009. A bid form and additional information may be obtained from the District Office at 120 S. Eleventh Street, P.O. Box 239, Sunnyside, Washington 98944, 509-837-8980 or downloaded at www.svid.org. A separate Bid on SVID Form SRE is required for each Parcel of interest to the Bidder. Bids, on SVID Form SRE, must be received not later than June 29, 2012 at 9:00 AM after which they will be opened and publicly read aloud. The District reserves the right to reject any and all bids submitted.

DATED: May 7, 2012
SUNNYSIDE VALLEY IRRIGATION DISTRICT

By: LORI BRADY, Assistant Manager of Administration
#12-3868, 5/20, 5/27, 6/3/2012

INVITATION FOR BID

Sealed proposals will be received for the East General Aviation Apron Reconstruction Phase 1 project, addressed to the Port of Pasco Board of Commissioners, Tri-Cities Airport Office, 3601 N. 20th St., Pasco, WA 99301, until 11:00 am local time on June 5, 2012, and then will be publicly opened and read. Bids received after the time fixed for the opening will not be considered.

A pre-bid meeting will be held at the Tri-Cities Airport Maintenance Shop located 641 Grumman St., Pasco, WA 99301 at 11:00 am local time on May 29, 2012 for those interested contractors, subcontractors, and suppliers.

The project consists of, but is not limited to, the reconstruction of Phase 1 of the East General Aviation Apron (approximately 30,000 square yards) at the Tri-Cities Airport, Pasco, WA, which includes removal of Portland Cement concrete pavement, subgrade excavation, replacement of a water main, installation of storm water structures and pipe, installation of subbase and base course material, bituminous surfacing, concrete pavement, and painted markings, and infield area restoration. Plans and specifications, including bid forms and contract documents, may be examined at the following locations:

- Tri-Cities Airport Office, 3601 N. 20th St., Pasco, WA 99301.
- Tri City Construction Council, 20 E. Kennewick Avenue, Kennewick, Washington.
- McGraw Hill Construction Dodge, 200 SW Michigan Avenue, Seattle, Washington.
- Spokane Regional Plan Center, 102 E. Boone, Spokane, Washington
- Inland Northwest AGC Plan Center, E. 4935 Trent Avenue, Spokane, Washington
- Builders Exchange.

maintenance shop located at 641 Grumman St., Pasco, WA 99301 at 1:00 p.m. (local time) on June 5th, 2012 for interested contractors, subcontractors, and suppliers.

The project consists of, but is not limited to, the demolition of the existing sand storage structure, construction of a new 4,800-SF sand storage structure to include construction of footings, stem walls, slabs, a pre-engineered metal building, electrical system, fence relocation, and site improvements.

Copies may be obtained at the office of J-U-B ENGINEERS, Inc., located at 2910 W. Clearwater Ave., Kennewick, WA 99336, upon payment of \$50.00 for each set, which is non-refundable.

Plans and Specifications will also be available on the J-U-B FTP site. Directions to the FTP site are included below. Bids will only be accepted from those planholders who have purchased a set of Plans and Specifications from J-U-B ENGINEERS, Inc. All addenda will also be placed on the FTP site.

To access J-U-B's ftp site: Navigate to the following URL - ftp.jub.com
Username: tca2012
Password: alport2012

Each bid must be accompanied by a certified check, cashier's check or bid bond in an amount not less than 5% of the total bid.

This project includes Federal funds and is subject to the wage provisions of the Washington State Public Works Laws, Federal Davis-Bacon, and related acts.

The proposed contract is under and subject to Executive Order 11248 of September 24, 1986, and to the Equal Employment Opportunity (EEO) and Federal Labor Provisions. The EEO requirements, labor provisions, and wage rates are included in the specifications and bid documents. Each bidder must supply all of the information required by the bid documents and specifications.

Each bidder shall furnish the OWNER with satisfactory evidence of his competency to perform the work contemplated with the bid.

The Port of Pasco reserves the right to reject any and all proposals, waive any irregularities, postpone the award of the Contract for a period not to exceed ninety (90) days, and accept the proposal that is in the best interest of the OWNERS. The award of the Bid is contingent upon the approval of Federal funding.

Dated this 24th day of May, 2012.

Hori Foraker,
Director of Airports
#12-3932, 5/27, 5/30, 6/3/2012

**KENNEWICK
PLANNING COMMISSION
NOTICE OF
PRE-DECISION MEETING
June 18, 2012, 7:00 p.m.**

The City of Kennewick Planning Commission will hold a Pre-Decision Meeting on Monday, June 18, 2012, at City Hall Council Chambers, 210 West 6th Avenue, at 7:00 p.m. or as soon as possible thereafter, to receive public comment on proposed text amendment to the Kennewick Municipal Code (KMC). The KMC requires the Planning Commission conduct a Pre-Decision meeting and the City Council conduct the required

For additional information or copies of the proposed revisions, please contact the Pasco City Planner at (509) 545-3441.

David J. McDonald
Planning Commission
Secretary
Pasco, Washington
#12-3947, 6/3, 6/17/2012.

**NOTICE OF
PUBLIC HEARING**

PLEASE TAKE NOTICE that the Pasco Planning Commission will hold a public hearing to consider the Rivershore Linkages and Amenities Plan (Master File No. PLAN 2012-003).

THEREFORE LET ALL CONCERNED TAKE NOTICE that a Public Hearing will be held by the Pasco Planning Commission, in the City Council Chambers, Pasco City Hall, 525 N. 3rd Ave., at the hour of 7:00 p.m., Thursday, June 21st, 2012, so that all concerned may appear and present any objections or support for the proposed code amendments.

For additional information or copies of the proposed revisions, please contact the Pasco City Planner at (509) 545-3441.

David J. McDonald
Planning Commission
Secretary
Pasco, Washington
#12-3946, 6/3, 6/17/2012

Public Meeting Notice: Pursuant to RCW 35.02.015 and receipt of a Notice to Commissioners for a proposed incorporation within Franklin County, the Franklin County Board of Commissioners will hold a public meeting on Wednesday, June 13, 2012, at 7:00 pm at the TRAC Center, 6600 Burden Boulevard, Pasco, Washington, to take testimony for and against a proposed incorporation within Franklin County in the following general area:

The area of west Pasco generally north of Sylvester Street, south of 1482, east of Road 100, and west of Road 40, commonly referred to as the "doughnut hole".
#12-3960, 6/3/2012

The Washington State Department of Ecology Announces a 45-Day Public Comment Period for Modifications to the Waste Treatment and Immobilization Plant Permit June 4 through July 20, 2012

The Washington State Department of Ecology is proposing a permit modification to the Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit. It is to the Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste for the Waste Treatment and Immobilization Plant (WTP). The proposed changes are located in Part III, Operating Unit 10. The co-permittees are the U.S. Department of Energy Office of River Protection and Bechtel National, Inc.

A 45-day public comment period is scheduled to begin June 4 and end July 20, 2012.

Why It Matters
WTP will be capable of treating 56 million gallons of dangerous radioactive and chemical waste from the 177 aging, underground storage tanks at Hanford. Treating the waste will reduce the risk to people and the environment.

Three design packages, two documents proposed
The proposed changes include the following three permit design packages that will allow new

with some from secondary containment sumps to primary containment sumps, for transfer to a PWD System tank.

• Change the requirement for the maintenance cave walls above the stainless-steel plate to have a water-proof coating.

• **Safe Operation of Cranes in the LAW and HLW Facilities.** CCN 239273. This document addresses Compliance Schedule Items 38 and 39, detailed in the WTP permit. Compliance Schedule Item 38 requires the co-permittees to describe how they will safely operate two LAW and seven HLW cranes. Compliance Schedule Item 39 requires the co-permittees to show that proper crane operation will not damage the regulated tank systems, miscellaneous unit systems, or vitrified waste.

NOTE: The entire Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste, of which WTP is part, is open for public comment from May 1 to September 30, 2012. The version of the WTP permit that is available as part of that comment period is up-to-date as of June 2011. However, because WTP construction must continue, we have another "active" version of the WTP permit that we are modifying, which is what will be included in the comment period that runs June 4 through July 20, 2012.

The above description is a brief summary of the proposed modification. To review the proposed modification in detail, beginning June 4, 2012, visit the Washington State Department of Ecology website (www.ecy.wa.gov/programs/wwp/commentperiods.htm) or visit one of the Public Information Repositories: Ecology Nuclear Waste Resource Center, 3100 Port of Benton Blvd, Richland, WA 99354. Contact: Valerie Peery 509-372-7950

Department of Energy Administrative Record 2440 Stevens Drive, Room 1101 Richland, WA 99354 Contact: Heather Childers 509-376-2530
Department of Energy Reading Room 2770 Crimson Way, Room 101E Richland, WA 99354 Contact: Janice Parthree 508-372-7443
Portland State University Branford Price Millar Library 1875 SW Park Avenue, Portland, OR 97207 Contact: Liz Paulus 503-725-4542
University of WA Suzzallo Library PO Box 352900 Seattle, WA 98195 Contact: David Maack 206-543-4864
Gonzaga University Foley Center 502 E Boone Avenue Spokane, WA 99258 Contact: Linda Pierce 509-323-6110

Your views and concerns are important to us. For more information on the upcoming public comment period, please contact Erika Holmes at Hanford@ecy.wa.gov or (509) 372-7880, or call the toll-free Hanford Clean up Line at 800-321-2008.

#12-3952, 6/3/2012

#12-3952, 6/3/2012

#12-3952, 6/3/2012

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#12-3952, 6/3/2012

Professional 570

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Classified Legals

ATTENTION CONTRACTORS INVITATION FOR BIDS Process Water Treatment System Optimization and Capital Improvements Project No. C7-SR-1A-12-01

The City of Pasco, Washington is inviting and requesting bid proposals for the **Process Water Treatment System Optimization and Capital Improvements** project. This project involves the installation of approximately 4300 lf of 6-inch, 8-inch, 10-inch and 16-inch diameter HDPE SDR 11 pressure sewer pipe; construction of a wastewater line screenings facility; construction of two 20-ft x 95-ft x 10-ft concrete sedimentation basins; and construction of a solids handling pump station.

Bid documents, including plans and specifications, may be obtained beginning **Thursday, June 7, 2012 at 2:00 p.m.** from the City Engineer's Office, City Hall, 525 North Third Avenue, Pasco, Washington, or by writing to Post Office Box 293, Pasco, Washington, 99301. Bidders must be prequalified to receive a bid package. A non-refundable payment of \$25.00 will be required for each set of electronic documents (CD) obtained.

Bids shall be addressed to the Mayor and the City Council and will be received at the office of the City Clerk, City Hall, 525 North 3rd Avenue, Pasco, Washington, up to the hour of 10:00 a.m., Tuesday, July 10, 2012, and then shall be opened in the City Council Chambers located on the first floor of the City Hall Building.

At the time and date stated, the bids will be publicly opened and read aloud. **Bids are to be submitted only on forms provided in the specifications.**

All bids must be accompanied by a "Good Faith Token" in the form of a Certified Check, Cashier's Check or Bid Bond in the amount of not less than 5 percent (5%) of the total bid amount.

A mandatory pre-bid conference will be held on June 21, 2012 at 10:00 a.m. at the City of Pasco Process Water Reuse Facility located north of the city. Representatives of the City will be available to discuss the project, address questions and conduct a site visit with potential bidders.

Technical questions regarding the scope of this project should be put in writing and directed to Michael A. Pawlak, P.E., City Engineer, City of Pasco, Public Works, 525 N. 3rd Avenue, P. O. Box 293, Pasco, WA, 99301, Fax (509) 543-5728, or email to engineering@pasco-wa.gov (Subject Line - PWRF).

No Bid will be accepted from any Contractor who is not on the City maintained list of responsible contractors eligible to perform services as governed by PMC 14.10.

The City Council reserves the right to reject any and

Project by the City of Richland Purchasing Division at 2700 Duportall, bldg. 100, until 2:00PM on Monday, June 11, 2012 at which time bids will be opened and read publicly. This project includes, but is not limited to, construction of the following: Asphalt Overlay (both 2' & 3' depth) of approximately 4,300 feet of roadway (36 typical width), grinding 4 inches and rebuilding the roadway with grindings, CSBC, CSTC, and HMA. Also, 1300 Lf of new sidewalk, approximately 4,300 Lf of Binch PVC Water Main (Including fittings, hydrants and water services) and Storm Drainage system repairs.

Complete digital project bidding documents are available at www.questcdn.com. You may download the digital plan documents for \$10 by inputting **Quest project # 2081048** on the website's Project Search page. Please contact **Quest CDN.com** at (952)233-1632 or info@questcdn.com for assistance in free membership registration; downloading, and working with this digital project information. #12-3929, 5/27, 6/3/2012

Bouten Construction, 295 Bradley St, Ste 202, Richland, Washington 99352, is seeking coverage under the Washington State Department of Ecology's Construction Stormwater NPDES and State Waste Discharge General Permit. The proposed project, Kadlec Free Standing Emergency Room is located at 3290 W. 19th Avenue in Kennewick, WA, in Benton County.

This project involves 3.8 acres of soil disturbance for commercial and underground utility infrastructure construction activities.

Stormwater will be discharged to ground with 100% infiltration.

Any persons desiring to present their views to the Washington State Department of Ecology regarding this application, or interested in Ecology's action on this application, may notify Ecology in writing no later than 30 days of the last date of publication of this notice. Ecology reviews public comments and considers whether discharges from this project would cause a measurable change in receiving water quality, and if so, whether the project is necessary and in the overriding public interest according to Tier II anti-degradation requirements under WAC 173-201A-320.

Comments can be submitted to:

Department of Ecology
Attn: Water Quality Program, Construction Stormwater
P.O. Box 47696,
Olympia, WA 98504-7696
#12-3951, 6/3/2012

CALL FOR BIDS OF
SURPLUS IRRIGATION
DISTRICT REAL
PROPERTY.

of Washington, Inc. 2607 Wetmore Ave. Everett WA 98201

Copies may be obtained at the office of J.U.B. ENGINEERS, Inc., located at 2810 W. Clearwater Ave., Kennewick, WA 99336, upon payment of \$50.00 for each set, which is non refundable.

Plans and Specifications will also be available on the J-U-B FTP site. Directions to the FTP site are included below. Bids will only be accepted from those planholders who have purchased a set of Plans and Specifications from J-U-B ENGINEERS, Inc. All addenda will also be placed on the FTP site.

To access J-U-B's ftp site: Navigate to the following URL - ftp.jub.com

Username: toa2012
Password: airport2012

Each bid must be accompanied by a certified check, cash, cashier's check, or bid bond in an amount not less than 5% of the total bid.

This project includes Federal funds and is subject to the wage provisions of the Washington State Public Works Laws; Federal Davis-Bacon, and related acts.

The proposed contract is under and subject to Executive Order 12466 of September 24, 1996, and to the Equal Employment Opportunity (EEO) and Federal Labor Provisions. The EEO requirements, labor provisions, and wage rates are included in the specifications and bid documents. Each bidder must supply all of the information required by the bid documents and specifications.

Each bidder shall furnish the OWNER with satisfactory evidence of his competency to perform the work contemplated with the bid.

The Port of Pasco reserves the right to reject any and all proposals, waive any informalities, postpone the award of the Contract for a period not to exceed ninety (90) days, and accept the proposal that is in the best interest of the OWNERS. The award of the Bid is contingent upon the approval of Federal funding.

Dated this 17th day of May, 2012.

PORT OF PASCO,
Tri-Cities Airport
Ron Forkner,
Director of Airports
#12-3899, 5/20, 5/27,
6/3/2012

INVITATION FOR BID

Sealed proposals will be received for the Sand Storage Structure Construction project, addressed to the Port of Pasco Board of Commissioners, Tri-Cities Airport Office, 3601 N. 20th St., Pasco, WA 99301, until 12:00 pm local time on June 12th, 2012, and then will be publicly opened and read. Bids received after the time fixed for the opening will not be considered. A pre-bid meeting will be held at the Tri-Cities Airport

Public Hearing on proposed changes to the city's development regulations. The proposed text amendment would move the required public hearing on the aforementioned items from the City Council to the Planning Commission as follows: Chapters 4.12 and 18.51 - amend various sections to reflect the change delegating the required public hearings for rezones, comprehensive plan amendments and zoning code text amendments from City Council to Planning Commission. File No. ZOA 12-01.

Terri Wright, Community Planning Department
PUBLISHED: 6-3-2012
#12-3948, 6/3/2012

KENNEWICK PLANNING COMMISSION

NOTICE OF PRE-DECISION MEETING

June 18, 2012, 7:00 p.m.

The City of Kennewick Planning Commission will hold a Pre-Decision Meeting on Monday, June 18, 2012, at City Hall Council Chambers, 210 West 6th Avenue, at 7:00 p.m. or as soon as possible thereafter, to receive public comment on proposed text amendment to the Kennewick Municipal Code (KMC). The KMC requires the Planning Commission conduct a Pre-Decision meeting and the City Council conduct the required Public Hearing on proposed changes to the city's development regulations. The proposed text amendment would move the required public hearing on the aforementioned items from the City Council to the Planning Commission as follows: Chapters 4.12 and 18.51 - amend various sections to reflect the change delegating the required public hearings for rezones, comprehensive plan amendments and zoning code text amendments from City Council to Planning Commission. File No. ZOA 12-03.

Terri Wright, Community Planning Department
PUBLISHED: 6-3-2012
#12-3949, 6/3/2012

NOTICE OF PUBLIC HEARING

PLEASE TAKE NOTICE that the Pasco Planning Commission will hold a public hearing to consider revisions to the Zoning Code (Title 25) related to Secondhand Stores in C-1 (Retail Business District) and C-2 (Central Business District) Zones, amending Pasco Municipal Code Chapters 25.12 and 25.70 (Master File No. CA 2012-003).

THEREFORE LET ALL CONCERNED TAKE NOTICE that a Public Hearing will be held by the Pasco Planning Commission, in the City Council Chambers, Pasco City Hall, 525 N 3rd Ave. at the hour of 7:00 p.m., Thursday, June 21st, 2012, so that all concerned may appear and present any objections or support for the proposed code amendments.

construction in the Low-Activity Waste (LAW) and High-Level Waste (HLW) facilities. The other two documents detail new information and design changes to the LAW, HLW, and Pretreatment (PT) facilities.

• **LAW Vitrification Facility Secondary Offgas/Vessel Vent Process System HEPA Filter Housing, Package LAW-026B, Revision 0.** This package addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing subsystems at the 440-foot elevation. It includes a report signed by an independent, qualified, registered professional engineer (IQPE) certifying the design of the LVP HEPA filter housings, a mechanical data sheet for the LVP safe change LVP HEPA filter housing and change documents issued against the HEPA filter housing mechanical data sheets.

• **Miscellaneous Unit Subsystem for LVP System (Activated Carbon Bed Adsorbers), Package LAW-027, Revision 0.** This permit design package also affects the LVP system. It contains a report signed by an IQPE that assesses the integrity of two activated carbon bed adsorbers (also known as mercury mitigation equipment).

• **Tank System Secondary Containment for HLW Autosampling System (ASX) Sampler Cabinets, Package HLW-039, Revision 0.** This permit design package includes the design of leak-containing liners for three ASX sampler cabinets at elevation 37 feet 0 inches in the HLW Facility. This permit package includes a report signed by an IQPE certifying the structural integrity of the HLW sampler cabinets.

• **Design Requirements for Wall Coatings and Containment Sumps in the PT Facility, Correspondence Control Number (CCN) 239270.** The proposed revisions will change how liquid wastes are contained in the hot cell and decontamination maintenance cave in the PT Facility.

The following changes are proposed for the hot cell:

• Reclassify three secondary containment sumps in the Plant Wash and Disposal (PWD) System to primary containment sumps.

• Add a new miscellaneous unit to manage liquid waste on the Hot Cell floor.

• Remove the requirement for the Hot Cell walls above the stainless-steel liner plate to have a waterproof coating because spray decontamination activities are not planned in the room.

The following changes are proposed for the remote decontamination maintenance cave:

• Add a new miscellaneous unit (called the Spray Decontamination and Sizing System) that will decontaminate, repair, and reduce the size of failed equipment.

• Reclassify two PWD Sys-

From: [Holmes, Erika \(ECY\)](#)
To: HANFORD-INFO@LISTSERV.WA.GOV
Cc: [Holmes, Erika \(ECY\)](#); [Jones, Mandy \(ECY\)](#); [Carlson, Annette \(ECY\)](#)
Subject: Ecology announces Waste Treatment Plant Permit comment period 6/4-7/20/12
Date: Friday, May 04, 2012 5:57:23 PM

The Washington State Department of Ecology Announces a 45-Day Public Comment Period for Modifications to the Waste Treatment and Immobilization Plant Permit

June 4 through July 20, 2012

The [Washington State Department of Ecology](#) is proposing a permit modification to the *Hanford Facility Resource Conservation and Recovery Act (RCRA) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste* for the Waste Treatment and Immobilization Plant (WTP). The proposed changes are located in Part III, Operating Unit 10. The co-permittees are the [U.S. Department of Energy Office of River Protection](#), P.O. Box 550, Richland, Washington, 99352, and [Bechtel National, Inc.](#) (BNI), 2435 Stevens Center Place, Richland, Washington, 99354.

A 45-day public comment period is scheduled to begin June 4 and end July 20, 2012.

Why It Matters

WTP will be capable of treating 56 million gallons of dangerous radioactive and chemical waste from the 177 aging, underground storage tanks at [Hanford](#). Treating the waste will reduce the risk to human health and the environment.

Three design packages, two documents proposed

The proposed changes include the following three permit design packages that will allow new construction in the Low-Activity Waste (LAW) and High-Level Waste (HLW) facilities. The other two documents detail new information and design changes to the LAW, HLW, and Pretreatment (PT) facilities.

- **LAW Vitrification Facility Secondary Offgas/Vessel Vent Process System HEPA Filter Housings, Package LAW-026B, Revision 0.** This package addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing subsystems at the +48-foot elevation. It includes a report signed by an independent, qualified, registered professional engineer (IQRPE) certifying the design of the LVP HEPA filter housings, a mechanical data sheet for the LVP safe change LVP HEPA filter housing, and change documents issued against the HEPA filter housing mechanical data sheets.
- **Miscellaneous Unit Subsystem for LVP System (Activated Carbon Bed Adsorbers), Package LAW-027, Revision 0.** This permit design package also affects the LVP system. It contains a report signed by an IQRPE that assesses the integrity of two activated carbon bed adsorbers (also known as *mercury mitigation equipment*).
- **Tank System Secondary Containment for HLW Autosampling System (ASX) sampler**

cabinets, Package HLW-039, Revision 0. This permit design package includes the design of leak-containing liners for three ASX sampler cabinets at elevation 37 feet, 0 inches in the HLW Facility. This permit package includes a report signed by an IQRPE certifying the structural integrity of the HLW sampler cabinets.

- **Design requirements for wall coatings and containment sumps in the PT Facility, CCN 239270.** The proposed revisions will change how liquid wastes are contained in the Hot Cell and Decontamination Maintenance Cave in the PT Facility.

The following changes are proposed for the Hot Cell:

- o Reclassify three secondary containment sumps in the Plant Wash and Disposal (PWD) System to primary containment sumps.
- o Add a new miscellaneous unit to manage liquid waste on the Hot Cell floor.
- o Remove the requirement for the Hot Cell walls above the stainless-steel liner plate to have a waterproof coating because spray decontamination activities are not planned in the room.

The following changes are proposed for the Remote Decontamination Maintenance Cave:

- o Add a new miscellaneous unit (called the *Spray Decontamination and Sizing System*) that will decontaminate, repair, and reduce the size of failed equipment.
- o Reclassify two PWD System sumps from secondary containment sumps to primary containment sumps, for transfer to a PWD System tank.
- o Change the requirement for the maintenance cave walls above the stainless-steel plate to have a waterproof coating.

- **Safe operation of cranes in the LAW and HLW facilities, CCN 239273.** This document addresses Compliance Schedule Items 38 and 39, detailed in the permit. Compliance Schedule Item 38 requires the permittees to describe how they will safely operate two LAW and seven HLW cranes. Compliance Schedule Item 39 requires the permittees to show that proper crane operation will not damage the regulated tank systems, miscellaneous unit systems, or vitrified waste.

NOTE: The entire [Hanford Facility Resource Conservation and Recovery Act \(RCRA\) Permit, Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste](#), of which WTP is part, is open for public comment from May 1 to September 30, 2012. The version of the WTP permit that is available as part of that comment period is up-to-date as of June 2011. However, because WTP construction must continue, we have another “active” version of the WTP permit that we are modifying, which is what will be included in the comment period that runs June 6 through July 20, 2012.

The above description is a brief summary of the proposed modification. To review the proposed modification in detail beginning June 4, 2012, visit the [Washington State Department of Ecology website](#), or visit one of the Public Information Repositories:

Ecology Nuclear Waste Resource Center
3100 Port of Benton Blvd.
Richland, WA 99354
Contact: Valarie Peery 509-372-7950

Dept. of Energy Administrative Record
2440 Stevens Drive, Room 1101
Richland, WA 99354
Contact: Heather Childers 509-376-2530

Department of Energy Reading Room
2770 Crimson Way, Room 101L
Richland, WA 99354
Contact: Janice Parthree 509-372-7443

Portland State University
Branford Price Millar Library
1875 SW Park Avenue
Portland, OR 97207
Contact: Liz Paulus 503-725-4542

University of WA Suzzallo Library
PO Box 352900
Seattle, WA 98195
Contact: David Maack 206-543-4664

Gonzaga University Foley Center
502 E Boone Avenue
Spokane, WA 99258
Contact: Linda Pierce 509-323-6110

Your views and concerns are important to us. For more information on the upcoming public comment period, please contact [Erika Holmes](#) at (509) 372-7880, or call the toll-free Hanford Cleanup Line at 1-800-321-2008.



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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

August 30, 2012

12-NWP-144

Mr. Scott Samuelson, Manager
United States Department of Energy
Office of River Protection
PO Box 450, MSIN: H6-60
Richland, Washington 99352

Mr. Frank Armijo, President
Mission Support Alliance, LLC
2490 Garlick Boulevard, MSIN: H1-30
Richland, Washington 99354

Mr. Matthew McCormick, Manager
United States Department of Energy
Richland Operations Office
PO Box 550, MSIN: A5-10
Richland, Washington 99352

Mr. Michael Schlender, Associate Director
Pacific Northwest National Laboratory
PO Box 999, MSIN: K1-46
Richland, Washington 99352

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

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

Ms. Carol Johnson, President
Washington Closure Hanford, LLC
2620 Fermi Avenue, MSIN: H4-24
Richland, Washington 99354

Mr. Michael Johnson, President
Washington River Protection Solutions, LLC
PO Box 850 MSIN: H6-63
Richland, Washington 99352

Re: Final Permit Modification on the June 4 through July 20, 2012, Comment Period for the
*Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste
Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste*, Part III,
Operating Unit 10, Waste Treatment and Immobilization Plant, WA7890008967

Dear Madam and Gentlemen:

This letter issues the Department of Ecology's (Ecology) final permit decision to incorporate the permit modifications into Part III, Operating Unit 10 Waste Treatment and Immobilization Plant (WTP Permit) of the *Hanford Facility Resource Conservation and Recovery Act Permit, Dangerous Waste Portion, Revision 8C, for the Treatment, Storage, and Disposal of Dangerous Waste*, WA7890008967. In accordance with Washington Administrative Code (WAC) 173-303-840(8)(b)(ii), this WTP Permit is effective August 30, 2012.



We did not receive comments during the public comment period. WAC 173-303-840(9) requires Ecology to issue a *Response to Comments* document. This document describes the public involvement actions taken in support of the public comment period. The final permit modification package consists of the *Response to Comments* (Ecology Publication 12-05-014), Statement of Basis, and the final WTP Permit, which are enclosed on a DVD. The *Response to Comments* is also available on the Ecology website at <http://fortress.wa.gov/ecy/publications/SummaryPages/1205014.html>.

The DVD and paper copy of the final WTP Permit is the official and enforceable version. A paper copy of the modified documents and drawings for the WTP Permit is provided to the USDOE Administrative Record, 2440 Stevens Drive, Richland, Washington. DVD copies are provided to Bechtel National, Inc. (BNI) and USDOE (Permittees).

This modification to the WTP Permit consists of the following design packages:

**Package LAW-026B, Revision 0, Low-Activity Waste (LAW) Vitrification Facility
Secondary Offgas/Vessel Vent Process System High-Efficiency Particulate Air (HEPA)
Filter Housings**

Permit Package LAW-026B addresses the design of LAW secondary offgas/vessel vent process system (LVP) high-efficiency particulate air (HEPA) filter housing subsystems at the +48-foot elevation.

This permit package includes a report signed by an independent, qualified, registered professional engineer (IQRPE) certifying:

- The design of the LVP HEPA filter housings.
- A mechanical data sheet for the LVP safe change LVP HEPA filter housing.
- Change documents issued against the HEPA filter housing mechanical data sheets.

**Package LAW-027, Revision 0, Miscellaneous Unit Subsystem for LVP System
(Activated Carbon Bed Adsorbers)**

Permit Package LAW-027 affects the LVP system described in the previous section. The design package contains a report signed by an IQRPE that assesses the integrity of two activated carbon bed adsorbers (also known as *mercury mitigation equipment*) at the +48-foot elevation. The purpose of the carbon bed adsorbers is to remove mercury, iodine, and acid gasses from the offgas.

This permit package also contains:

- Revised piping and instrument diagrams.
- A mechanical data sheet.
- A corrosion evaluation for the activated carbon bed adsorbers.
- The system description for the LAW Primary Offgas and LVP systems.

Package HLW-039, Revision 0, Tank System Secondary Containment for High-Level Waste (HLW) Autosampling System (ASX) Sampler Cabinets

Permit Package HLW-039 includes the design of leak-containing liners for three ASX sampler cabinets at elevation +37 feet, 0 inches in the HLW Facility.

This permit package includes a report signed by an IQRPE certifying the structural integrity of the HLW sampler cabinets.

Design Requirements for Wall Coatings and Containment Sumps in the Pretreatment Facility (PTF), Correspondence Control Number (CCN) 239270

The proposed revisions will change how liquid wastes are contained in the Hot Cell and Remote Decontamination Maintenance Cave in the PTF. It will also include design requirements for the wall coatings and containment sumps in the Pretreatment In-Cell Handling System.

The changes will be included in Chapter 4.0 and the Permit Conditions of the WTP Permit. Design changes will be provided for public review at a later date.

Safe Operation of Cranes in the LAW and HLW facilities, CCN 239273

This document addresses two compliance schedule items in the WTP Permit. Specifically, CCN 239273 describes how the co-permittees will safely operate two LAW and seven HLW cranes. As required in Compliance Schedule Item 38, the description covers the following:

- Clear travel path for the bridge and trolley.
- Upper and lower hook travel limits.
- Two-blocking prevention.
- Hook load limits.
- Wire rope misreeling.
- Controls to prevent the crane's speed from exceeding safe operating limits.

Compliance Schedule Item 39 requires USDOE and BNI to show that proper crane operation will not damage the regulated tank systems, miscellaneous unit systems, or vitrified waste.

Class 1 Modifications

In addition, because the draft WTP Permit was available for public comment on June 4 through July 20, 2012, per WAC 173-303-830(4)(a)(i) and (ii), Ecology administratively incorporated several Class 1 and Class ¹ permit modifications into this final WTP Permit.

As a courtesy, those modifications are listed below. Quarterly notifications of all Class 1 and Class ¹ permit modifications are provided to the facility mailing list in accordance with Permit Condition I.C.3.

- 24590-WTP-PCN-ENV-09-003, Class 1 Modification updates WTP Piping and Instrumentation Diagram (P&ID) Symbols and Legends in Appendix 7.2.
- 24590-WTP-PCN-ENV-12-001, Class ¹ Modification updates design criteria document 24590-WTP-DC-PS-01-001 in Appendix 7.5.
- 24590-PTF-PCN-ENV-11-009, Class ¹ Modification updates WTP P&ID Symbols and Legends in Appendix 8.2.
- 24590-PTF-PCN-ENV-11-011, Class ¹ Modification updates the PTF General Arrangement Plan for 0 ft-0 in. elevation in Appendix 8.4.
- 24590-WTP-PCN-ENV-11-009, Class ¹ Modification revises 10 permit Conditions (III.10.D.b.i, III.10.E.9.b.ii, III.10.F.7.c.i, III.10.G.b.ii, III.10.G.c.ii, III.10.H.5.b.ii, III.10.H.5.c.ii, III.10.J.5.b.ii, III.10.J.5.c.ii) to remove references to General Arrangement cross sections.
- 24590-LAW-PCN-ENV-11-005, Class ¹ Modification updates and replaces P&IDs for the LAW Melter Feed Process System in Appendix 9.2.
- 24590-HLW-PCN-ENV-11-010, Class ¹ Modification updates P&IDs for the HLW Melter Offgas Treatment Process System in Appendix 10.2.
- 24590-HLW-PCN-ENV-11-008, Class ¹ Modification updates P&IDs for the HLW Melter Cave Support Handling System, Pulse-Jet Ventilation System and Radioactive Liquid Waste Disposal System in Appendix 10.2.
- 24590-HLW-PCN-ENV-11-004, Class ¹ Modification updates the Corrosion Evaluation Data Sheets for the HLW Melter Offgas Treatment Process System in Appendix 10.9.
- 24590-LAB-PCN-ENV-06-002, Class ¹ Modification updates and replaces the IQRPE Structural Integrity Assessment Report for Analytical Laboratory (LAB) Radioactive Liquid Waste Disposal System, LAB Area Sink Drain Collection Vessel, and Hot Cell Drain Collection Vessel in Appendix 11.11.
- 24590-LAB-PCN-ENV-06-004, Class ¹ Modification updates and replaces the IQRPE Structural Integrity Assessment Report for the LAB Facility Below Grade Level Secondary Containment in Appendix 11.11.

Mr. Scott Samuelson, et al.
August 30, 2012
Page 5

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If there are any questions, contact Mandy Jones, WTP Permit Writer, at mandy.jones@ecy.wa.gov, or 509-372-7916.

Sincerely,


for

Jane A. Hedges
Program Manager
Nuclear Waste Program

mj/jc
Enclosures

cc electronic w/o enc:

Helen Brownell, EPA
Dennis Faulk, EPA
Paul Harrington, USDOE
Lori Huffman, USDOE
Tony McKarns, USDOE
Gae Neath, USDOE
Delmar Noyes, USDOE
Don Sommer, USDOE
Donna Busche, BNI
Barry Curn, BNI
Barbara Dubiel, BNI
Brad Erlandson, BNI
Sandi Murdock, BNI
Walter Remsen, BNI
Dan Robertson, BNI
Jan Schneider, BNI
Gail Laws, WDOH
Mandy Jones, Ecology

cc w/enc, DVD:

Dave Bartus, EPA
Barry Curn, BNI
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
John Fowler, ACHP
Robin Priddy, BCAA
Allyson Brooks, DAHP
Susan Leckband, HAB
Jon Perry, MSA
Ken Niles, ODOE
Tim Erkel, USACE
Larry Klimek, WDFW
John Martell, WDOH
Bob Arrington, WSDA
Shane Early, WSDNR
Administrative Record:
Waste Treatment Plant (TSD #H-0-8)
BNI Correspondence Control
Environmental Portal
EPA Region 10 Correspondence Control
EPA Region 10 Hanford Office
Hanford Operating Record General File
USDOE-ORP Correspondence Control
USDOE-RL Correspondence Control

cc w/enc, hard copy:

Administrative Record: Waste Treatment Plant (TSD #H-0-8)