

Low-Activity Waste Pretreatment System, OUG 1 Permit Modification



Public comment period

June 22 to August 7, 2020

Please submit comments

Electronically (preferred) via:

<http://nw.ecology.commentinput.com/?id=ifWeC>

By U.S. Mail, or hand-delivery:

Daina McFadden
3100 Port of Benton Blvd
Richland WA 99354

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:

Daina McFadden
509-372-7950
Hanford@ecy.wa.gov

Special accommodations

To request an ADA accommodation, contact Ecology by phone at 509-372-7950 or email at Daina.McFadden@ecy.wa.gov, or visit ecology.wa.gov/accessibility.

For Relay Service or TTY call 711 or 877-833-6341.

Public comment invited

The Washington State Department of Ecology (Ecology) is proposing a modification to Part III of the *Hanford Facility Resource Conservation and Recovery Act Permit, Revision 8C* (Sitewide Permit).

The proposed changes affect the Dangerous Waste Portion for the Treatment, Storage, and Disposal of Dangerous Waste. A new operating unit group will be added to this portion of the permit.

The Permittees are:

United States Department of Energy
Office of River Protection
P.O. Box 450, MSIN H6-60
Richland, Washington 99352

Washington River Protection Solutions
P.O. Box 850, MSIN: H3-21
Richland Washington, 33952

This proposed draft permit modification would add the Low-Activity Waste Pretreatment System Operating Unit Group 1 (LAWPS OUG 1), to the Sitewide Permit. The proposed modification (8C.2020.3D) provides design and construction details for Phase One of the LAWPS OUG 1.

Ecology invites you to comment on this permit modification June 22 through August 7, 2020.

Modification overview/background

The LAWPS OUG will be operated in phases, with LAWPS Phase One as a Tank Side Cesium Removal (TSCR) unit that will operate for approximately 5 years.

Phase Two will use either a permanent cesium removal capability or additional TSCR unit(s) to support full operations of the Waste Treatment and Immobilization Plant Low-Activity Waste Facility.

The Low-Activity Waste Pretreatment System, Operating Unit Group 1

The LAWPS OUG 1 will be located in the 200 East Area of the Hanford site. The dangerous waste management units (DWMUs) for the LAWPS Phase One include tank treatment and storage, and container storage. The TSCR unit is a mixed waste treatment and storage unit that will treat double-shell tank (DST) supernatant waste.

The TSCR system is housed in a Process Enclosure and is designed to remove undissolved solids by filtration and remove cesium-137 by ion exchange, and discharge the pretreated low-activity waste (LAW) stream to DST 241-AP-106. The pretreated LAW will be stored in DST 241-AP-106 until it is transferred to the Waste Treatment and Immobilization Plant Low-Activity Waste Facility for vitrification.

The container storage areas consist of two outdoor concrete pads for the storage of spent Ion Exchange Columns (IXC) generated from the TSCR process. These include the IXC staging area and the IXC storage pad. All LAWPS OUG DWMUs are located immediately adjacent to the southeast corner of the 241-AP Tank Farm.

The current permit modification provides the design and construction details to support the LAWPS OUG 1, Phase One.

Proposed Changes

This proposed draft permit modification will add LAWPS OUG 1 to Part III of the Sitewide Permit. The modification includes design and construction details to support the LAWPS OUG 1, Phase One. The modification includes:

- Unit Specific draft permit conditions
- Draft Interim Compliance Schedule
- Addendum A, Part A Form
- Addendum B, Waste Analysis Plan
- Addendum C, Process Information
- Addendum E, Security Requirements
- Addendum F, Preparedness and Prevention
- Addendum G, Personnel Training
- Addendum H, Closure Plan
- Addendum I, Inspection Plan
- Addendum J, Contingency Plan
- Appendices that include the necessary supporting design media (specifications, calculations, reports, and engineering drawings)

Permit Conditions

Ecology collaborated with the Permittees to discuss permit conditions in support of the LAWPS Project. The results are proposed unit-specific permit conditions that address the construction, operation, and maintenance of the LAWPS dangerous waste management units and ancillary equipment.

Interim Compliance Schedule

Two specific actions were added to an Interim Compliance Schedule. These items are necessary to support the long term disposal of the Ion Exchange Columns and receipt of the technical details necessary to support operations of the LAWPS OUG.

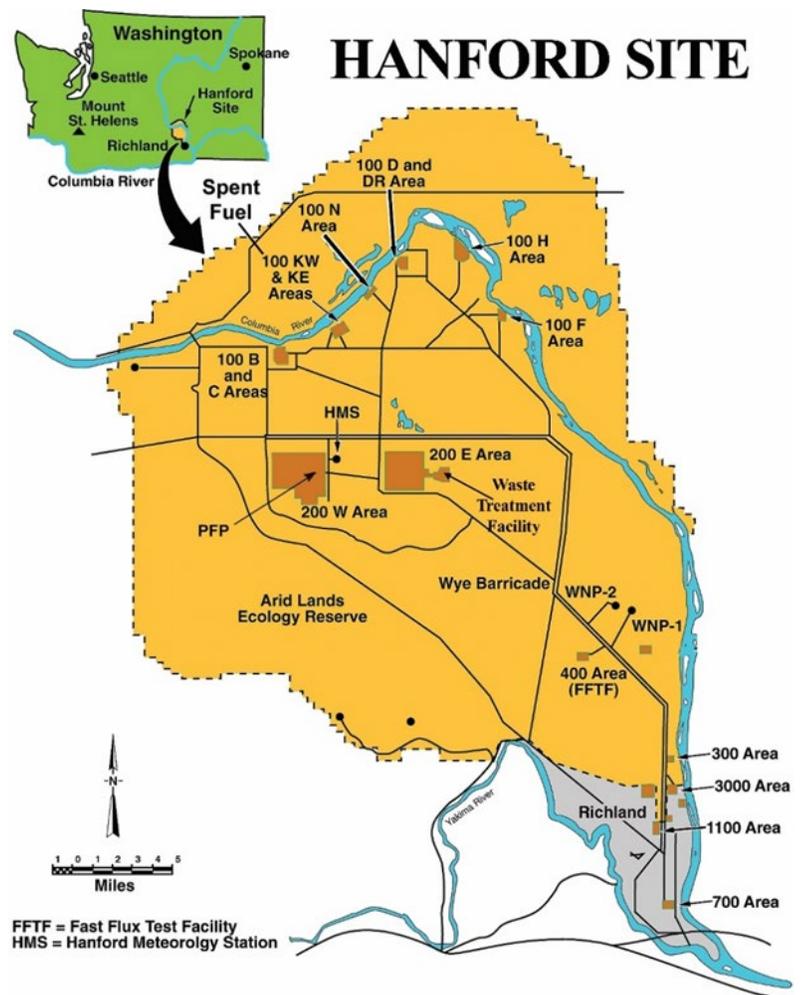
Reviewing the proposed changes

Ecology invites to you to review and comment on this proposed LAWPS OUG 1 draft permit modification (8C.2020.3D). See Page 1 for comment period dates and information on how to submit comments.

Copies of the application for the proposed permit and supporting documentation will be available during the public comment period online at Ecology’s website at Ecology.wa.gov/Waste-Toxics/Nuclear-waste/Public-comment-periods. The documents will also be available at the Hanford Public Information Repositories listed on the last page.

Ecology will consider and respond to all significant comments received during the public comment period.

We will document our responses and issue a response to comments document when we make our final permitting decision.





DEPARTMENT OF
ECOLOGY
State of Washington

Nuclear Waste Program
3100 Port of Benton Blvd
Richland, WA 99354

Hanford's Information Repositories and Document Review Locations

Ecology Nuclear Waste Program
Resource Center
3100 Port of Benton Blvd.
Richland, WA 99354
509-372-7950

U.S. Department of Energy
Administrative Record
2440 Stevens Drive, Room 1101
Richland, WA 99354
509-376-2530

Washington State University Tri-Cities
Department of Energy Reading Room
2770 Crimson Way, Room 101L
Richland, WA 99354
509-375-7443

University of Washington
Suzzallo Library
P.O. Box 352900
Seattle, WA 98195
206-543-5597

Gonzaga University
Foley Center
502 E Boone Avenue
Spokane, WA 99258
509-313-6110

Portland State University
Millar Library
1875 SW Park Avenue
Portland, OR 97207
503-725-4542