



DEPARTMENT OF
ECOLOGY
State of Washington

Department of Ecology

March 2021 - Agency Update

David Bowen, Nuclear Waste Program Manager

Outline

- Holistic negotiations
- TPA milestone negotiations
- Compliance activities
- Permitting activities
- Transitions

Holistic negotiations

- Ecology proposed holistic negotiation of tank waste retrieval, treatment
- Sessions are being facilitated by mediators from the Federal Mediation and Conciliation Service
- EPA is participating in the sessions in addition to USDOE, US Department of Justice, Ecology, and the Washington Attorney General Office
- Per a mediation agreement, the parties will not discuss status or progress during the negotiations
- Meetings continue to occur

Tri-Party Agreement negotiations transuranic mixed waste

- M-91 milestone series addresses transuranic mixed waste in storage at the Central Waste Complex (CWC) or retrievably stored in the Central Plateau burial grounds across the road from CWC
 - Milestone adjustments were required because of the shutdown then slow down at the Waste Isolation Pilot Plant (WIPP)
 - Also the WIPP closing date was extended from 2030 to 2050
 - DOE agreed to ship 99% of the waste off site by 2040
 - Tri-Parties signed a Tentative Agreement with draft milestones
 - March 9: ListServ notice of upcoming public comment period
 - April 26 – June 14 comment; May 13 virtual public meeting

Ecology Compliance Activities

December 2020 to February 2021

Inspections Conducted



- Single Shell Tank System – December 10, 2020
- 216-A-29 Ditch Groundwater Inspection - January 26, 2021
- 216-A-37-1 Crib Groundwater Inspection - January 26, 2021
- 216-A-36B Crib Groundwater Inspection - January 26, 2021
- 216-B-63 Trench Groundwater Inspection - January 26, 2021
- 216-S-10 Pond and Ditch Groundwater Inspection - January 26, 2021
- 216-B-3 Pond Groundwater Inspection - January 26, 2021
- 183-H Solar Evaporator Basins Groundwater Inspection - January 26, 2021
- 300 Area Process Trenches Groundwater Inspection - January 26, 2021
- Non-Radioactive Dangerous Waste Landfill Groundwater Inspection - January 26, 2021
- Low Level Burial Grounds – Green Islands Groundwater Inspection - January 26, 2021
- Double Shell Tank System and 204-AR – January 28, 2021
- Centralized Consolidation/Recycling Center – February 4, 2021

Ecology Compliance Activities

December 2020 to February 2021

Compliance Reports Issued



- Liquid Effluent Retention Facility (LERF) and 200 Area Effluent Treatment Facility – December 23, 2020
- 241-CX Tank System – January 15, 2021
- Hexone Storage and Treatment Facility – January 15, 2021
- B Plant – January 29, 2021
- PUREX – February 1, 2021
- Double Shell Tank System and 204-AR – February 11, 2021
- Centralized Consolidation/Recycling Center – February 11, 2021

Permit Modifications Continue

- Ecology continues to process draft and final permit modifications during the “Stay at Home, Stay Healthy” and “Safe Start” Orders.
- Draft and final permit modifications are available online at the Ecology website.
- Members of the public can request hard copies of documents and DVDs of permit modification if electronic accessibility is not possible.
- The Public Information Repositories and Administrative Record receive draft and final permit modifications electronically to post on their websites.
- Once Ecology can successfully send DVDs and hard copies, we will ensure those are in place at the appropriate locations, according to the WAC and Tri-Party Agreement.
- Ecology continues to work to ensure members of the public receive the information in support of permit modifications.

Opportunities for public involvement



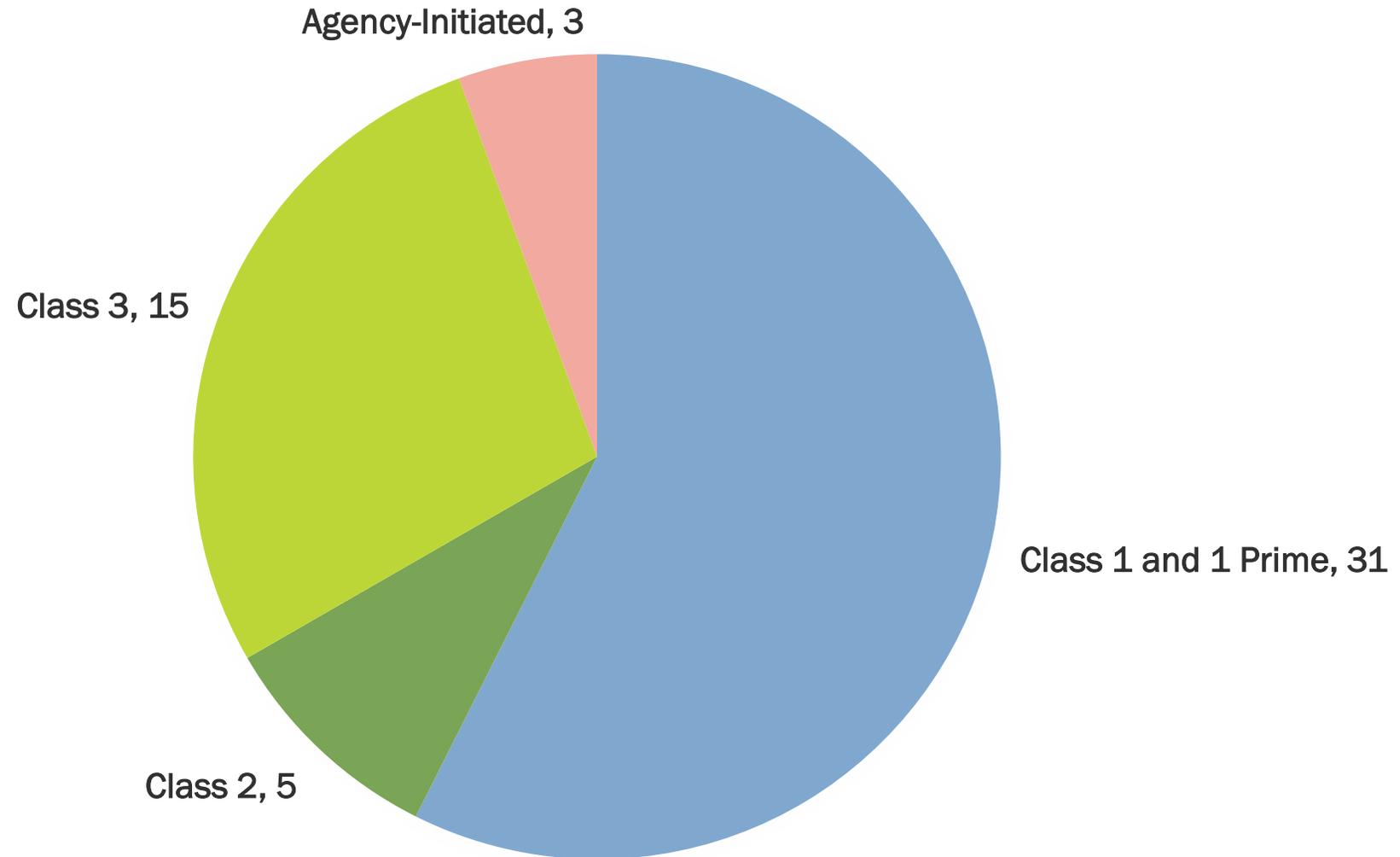
Unit	Public Comment Period
<p><u>Class 3 Permit Modification</u> – (Second portion of the Class 3) Includes proposed permit language for new wall penetrations into the 242-A Facility.</p>	February 8–March 22, 2021
<p><u>Agency-Initiated Permit Modification</u> – Incorporate a proposed, updated Closure Plan into the WTP Permit.</p>	February 1-March 17, 2021
<p><u>Class 3 Permit Modification</u> – (Second portion of a Class 3) Incorporate LERF-ETF Basin 41 into Hanford Site-wide Permit Operating Unit Group 3. LERF Basins are lined surface impoundments used to store and treat aqueous waste. The waste is pumped from LERF to ETF for treatment. The addition of LERF Basin 41 is in support of DFLAW Operations.</p>	February 22-April 18, 2021
<p><u>Class 3 Permit Modification</u> – (Second portion of a Class 3) Incorporate draft permit language in support of a tie-in from the PC-5000 line and the LERF-ETF Catch Basin 242AL-41. It also proposes permit conditions for the leak detection system for the 242-A Evaporator.</p>	February 22-April 18, 2021
<p><u>Class 3 Permit Modification</u> – The Class 3 permit modification incorporates proposed permit language for the LERF-ETF Supplemental Organic Treatment and Lag Storage Tanks, and Modular Grout System.</p>	March-April 2021

Opportunities for public involvement



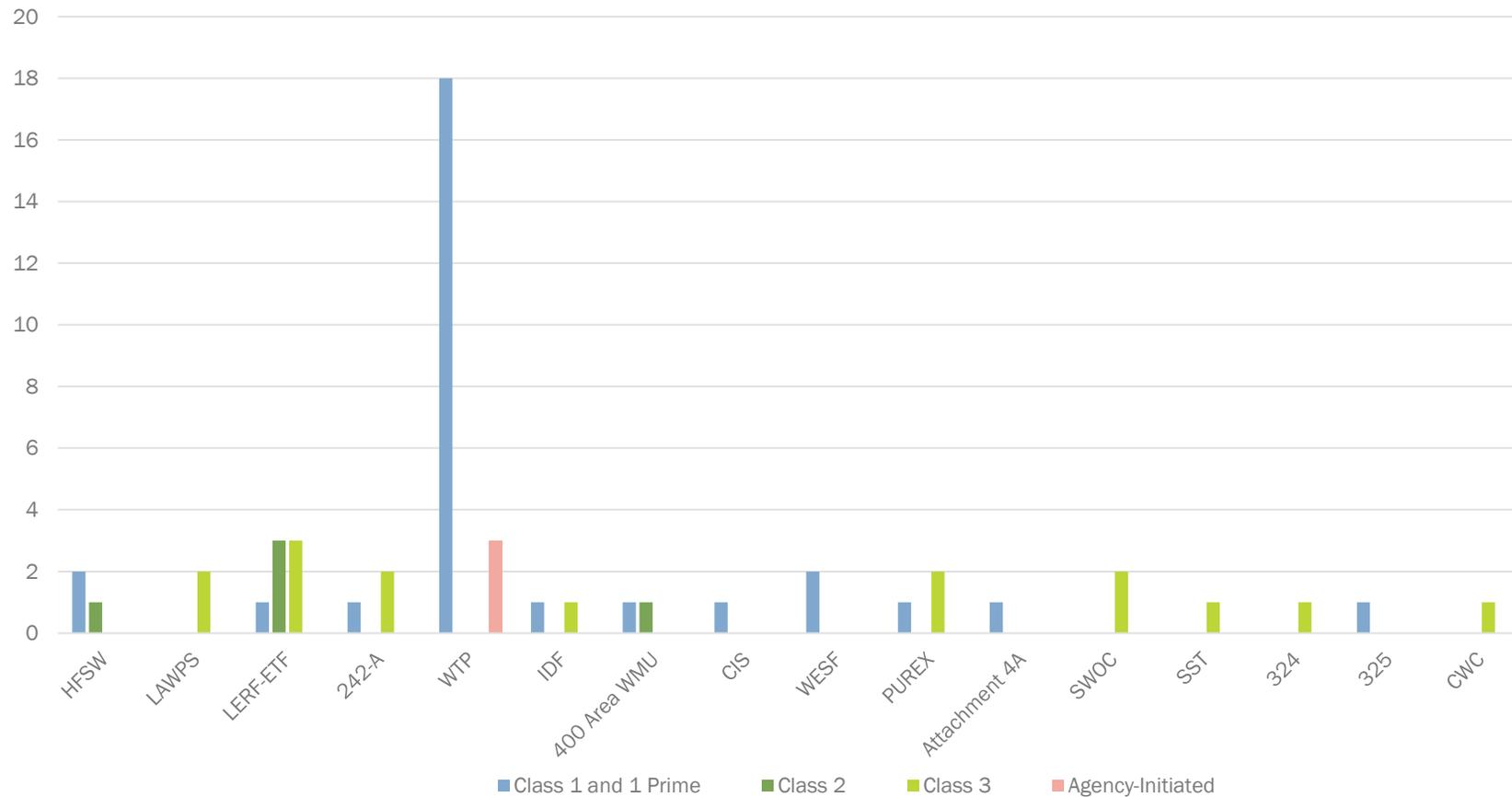
Unit	Dates
<u>Class 3 Permit Modification</u> – (Second portion of the Class 3) Includes proposed permit language in support of operations and allow for disposal of mixed low-level waste in both disposal cells of the Integrated Disposal Facility, add receipt of mixed low-level wastes from Hanford Site operations, and allow for the construction of a treatment pad and a storage pad.	March-April 2021
<u>Class 2 Permit Modification</u> – Incorporates proposed revisions to the Groundwater Monitoring Plan for the LERF-ETF permit.	Spring 2021
<u>Class 3 Permit Modification</u> – PUREX Class 3 permit modification (second portion) to address closure of tanks TK-P4 and TK-40 and bring this Closing Unit Group into the permit.	April-May 2021
<u>State Waste Discharge Permit</u> – ST0004502 – Treated Effluent Disposal Facility permit renewal	Summer 2021
<u>Criteria and Toxics Approval Order Modification</u> – DE07NWP-003 - Modification for the construction of LERF Basin 41 and operation of all LERF Basins to receive DFLAW effluent.	Spring 2021
<u>Criteria and Toxics Approval Order</u> – New approval order for the site-wide water infrastructure upgrades project.	Late Spring/Early Summer 2021

Hanford Site-wide Permit Rev. 8c Permit Modifications



Hanford Site-wide Permit Rev. 8c Permit Modifications by Unit Group

Hanford Site-wide Permit, Revision 8c Modifications



Acronyms Legend

HFSW: Hanford Facility Site Wide

LAWPS: Low Activity Waste Pre-Treatment

LERF-ETF: Liquid Effluent Retention Facility-Effluent Treatment Facility

242-A: 242-A Evaporator

WTP: Waste Treatment Plan

IDF: Integrated Disposal Facility

400 Area WMU: 400 Area (Fast Flux Test Facility) Waste Management Units

CIS: Cesium Interim Storage

WESF: Waste Encapsulation Storage Facility

PUREX: 221-A Building aka PUREX Plant

Attachment 4A: attachment to the permit

“Building Emergency Directors/Building Wardens

SWOC: Solid Waste Management Complex

includes T Plant, Central Waste Complex, Waste Receiving and Processing facility

SST: Single Shell Tank System

324: 324 Building

325: 325 Building

CWC: Central Waste Complex



Questions?

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