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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

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October 5, 2017

17-NWP-138

Mr. Joe R. Franco  
Assistant Manager for the River and Plateau  
Richland Operations Office  
United States Department of Energy  
PO Box 550, MSIN: H5-20  
Richland, Washington 99352

Re: Ecology Review of Data Quality Objectives (DQOs) for Structural Integrity of Plutonium Uranium Extraction (PUREX) Tunnels 1 and 2, Interim Milestone M-085-80A

References: See page 2

Dear Mr. Franco:

The Department of Ecology (Ecology) received the PUREX Tunnel 1 and 2 Data Quality Objectives Information Summary (reference 1 and 2) from the United States Department of Energy – Richland Operations Office (USDOE-RL) on September 13, 2017. This document was submitted to Ecology as a secondary document in accordance with the Hanford Federal Facility Agreement and Consent Order (HFFACO) milestone M-85-80A.

In accordance with Section 9.2.3 of the HFFACO, Ecology is choosing to take no action in response to the provided draft A of the DQOs for structural integrity for Tunnels 1 and 2.

**Background:**

The Amended Administrative Order Docket # 15419 (Order) established three corrective actions in response to the May 9, 2017, subsidence/partial collapse observed on the south side of PUREX Tunnel 1. Corrective Action 1 of the Order required USDOE-RL to submit to Ecology a structural integrity evaluation for both PUREX Storage Tunnels 1 and 2. USDOE-RL complied with Corrective Action 1 by submitting PUREX Tunnels 1 and 2 Engineering Evaluations (reference 3 and 4).

The draft DQO Information Summary submitted to Ecology was going to be the basis for developing a structural integrity assessment/engineering evaluation for PUREX Tunnels 1 and 2. However, based on USDOE-RL's submittal of Corrective Action 1 of the Order, Ecology will use the PUREX Tunnel 1 and 2 Engineering Evaluations for the Hanford Site-wide Dangerous Waste Permit Revision 9 renewal. The evaluations will also be used as part of a permit modification to be submitted to Ecology as part of the Corrective Action 3 of the Order.



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Ecology appreciates USDOE-RL working with us on these DQOs in draft form, including providing responses to our Review Comment Record for the PUREX Tunnel 1 and 2 DQO Information Summary.

If there are any questions regarding this letter, please contact Brigitte Weese, PUREX Unit Lead, at [brigitte.weese@ecy.wa.gov](mailto:brigitte.weese@ecy.wa.gov) or (509) 372-7936, or myself at [stephanie.schleif@ecy.wa.gov](mailto:stephanie.schleif@ecy.wa.gov) or (509) 372-7929.

Sincerely,

Stephanie Schleif  
Facility Transition Project Manager  
Nuclear Waste Program

References

1246211  
1246212  
1245186  
1245187

1. Letter 17-AMRP-0247, dated September 12, 2017, "Data Quality Objectives Report for Assessing the Structural Integrity for Plutonium Uranium Extraction (PUREX) Plant Storage Tunnels 1 and 2, Draft A"
2. CHPRC-03325 Draft A, dated June 2017, "PUREX Tunnel 1 and 2 Data Quality Objectives Information Summary"
3. CHPRC-03364 Revision 0, dated June 2017, "PUREX Tunnel 1 Engineering Evaluation"
4. CHPRC-03365 Revision 0, dated June 2017, "PUREX Tunnel 2 Engineering Evaluation"

cc electronic:

- Dave Bartus, EPA
- Jack Boller, EPA
- Laura Buelow, EPA
- Craig Cameron, EPA
- Jane Borghese, CHPRC
- Jeff Lerch, CHPRC
- Stephanie Brasher, MSA
- Jerry Cammann, MSA
- Scott Davis, MSA
- Jon Perry, MSA
- Rob Piippo, MSA
- Annette Carlson, Ecology
- Stephanie Schleif, Ecology
- Ron Skinnarland, Ecology
- Brigitte Weese, Ecology
- Environmental Portal
- Hanford Facility Operating Record
- CHPRC Correspondence Control
- MSA Correspondence Control
- USDOE-RL Correspondence Control

cc:

- Matt Johnson, CTUIR
- Jack Bell, NPT
- Rose Longoria, YN
- Susan Leckband, HAB
- Administrative Record (PUREX)
- NWP Central File