



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

3100 Port of Benton Blvd • Richland, WA 99352 • (509) 372-7950

July 6, 2005

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

Mr. Edward S. Aromi, Jr.
President and General Manager
CH2M Hill Hanford Group, Inc.
P.O. Box 1500, MSIN: H6-08
Richland, Washington 99352

Dear Mr. Schepens and Mr. Aromi:

Re: Request for a Temporary Authorization to Continue Construction at the Integrated Disposal Facility

Reference: Letter 05-TPD-048, from Roy Schepens to Michael A. Wilson "Modification of the Hanford Site Wide Permit to Provide Temporary Authorization for Construction of the Admix Liner and Secondary Leak Detection System at the Integrated Disposal Facility," dated June 20, 2005

I am issuing this Temporary Authorization (TA) to allow construction of the admix liner (lowest component of the bottom liner) in Cell 1 (Mixed Waste Cell) of the Integrated Disposal Facility (IDF). The IDF is a landfill in which you proposed to dispose of low level radioactive waste and mixed low level waste in the form of immobilized low activity waste from the Demonstration Bulk Vitrification System and the Waste Treatment Plant. Construction of the Secondary Leak Detection System will also be allowed, as it forms the foundation for the admix liner.

Ecology staff reviewed your request for a TA and agree that it meets the requirements in Washington Administrative Code (WAC) 173-303-830(4)(e)(iii)(B)(I).

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You and your contractors must comply with the following conditions:

- Comply with the construction quality assurance requirements found in WAC 173-303-335 as they apply to landfill construction and the requirements found in Appendix 4B of the Draft Permit for Operating Unit 11, IDF, Hanford Site Wide Permit (Draft IDF Permit).
- Ensure that your admix liner meets the requirements for a minimum of 3 feet of compacted soil material and hydraulic conductivity of no more than 1×10^{-7} centimeters per second in WAC 173-303-665(2)(h)(i)(B).
- Ensure that the admix liner meets the requirements of Specification 02666, Admix Liner, in RPP-18489, Rev. 0, IDF Detailed Design: Technical Specifications, contained in Volume 4 of your permit application, DOE/RL-2003-12. All other Specifications found in RPP-18489, Rev. 0, that pertain to the admix liner installation must be followed.
- Comply with all construction requirements found in the Draft Permit Condition III.11.D.
- Comply with all other conditions of the Draft Permit as they apply to installation of the admix liner.
- Construct the Secondary Leak Detection System consistent with the description in Chapter 4 of the Draft Permit and Drawing H-2-830848, Rev B, in Appendix 4A, Section 3 of the Draft Permit.
- Do not install any part of the liner system above the admix liner.
- Continue to implement the Mitigation Action Plan that you provided Ecology to replace shrub steppe habitat lost when you excavated the IDF and to protect species that are included in the Migratory Bird Treaty Act.

If you have any questions concerning this TA approval, please contact Suzanne Dahl at (509) 372-7892.

Sincerely,



Jay J. Manning
Director
Department of Ecology

JJM:SD:jc

cc: see on next page

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cc: Phil Lamont, USDOE
James Rasmussen, USDOE
Zack Smith, USDOE
Greg Parsons, CHG
Ted Wooley, CHG
Ro Vinson, PAC
Stuart Harris, CTUIR
Gabriel Bohnee, NPT
Russell Jim, YN
Todd Martin, HAB
Ken Niles, ODOE
Administrative Record: IDF Permit
Environmental Portal