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STATE OF WASHINGTON  
DEPARTMENT OF ECOLOGY

1315 W. 4th Avenue • Kennewick, Washington 99336-6018 • (509) 735-7581

July 30, 1998

Mr. James E. Rasmussen  
U.S. Department of Energy  
P.O. Box 550, MSIN: A5-15  
Richland, WA 99352



Dear Mr. Rasmussen:

Re: New Wastewater Stream Added to State Waste Discharge Permit Number ST 4500

The Washington State Department of Ecology (Ecology) has reviewed the 100-D wastewater characterization study that was submitted by the U.S. Department of Energy (USDOE) on July 21, 1998. This 100-D wastewater study was intended to fulfill the requirements in Special Condition S3 of State Waste Discharge Permit ST 4500 (permit) and demonstrate that wastewater generated during the 100-D Area aquifer treatability testing is appropriate to be added to the permit as an approved stream, treated at the 200 Area Effluent Treatment Facility (ETF), and then discharged to the State Approved Land Disposal Site (SALDS).

Ecology is satisfied, based on the information provided, that the 100-D wastewater stream can be successfully treated by ETF to meet all permit limits and that ETF treatment would constitute Best Available Technology/All Known, Available, and Reasonable Treatment (BAT/AKART). Ecology therefore approves the treatment and discharge of the 100-D wastewater stream by ETF under all the terms and conditions of the permit.

The addition of the 100-D wastewater stream does not require any modification to the wording in the permit. This letter serves as Ecology authorization to cover this new discharge under the permit. All limitations, conditions, and requirements identified in the permit must be met by the new effluent. USDOE may commence treatment and discharge of the 100-D wastewater stream by ETF upon receipt of this letter.

If you have any further questions, please contact me at (509) 736-3047.

Sincerely,

David S. Dougherty, P.E.  
200 Area ETF Discharge Permit Manager  
Nuclear Waste Program

cc: Suzanne Clark, USDOE  
Roger Gordon, USDOE  
Alex Teimouri, USDOE  
Doug Sherwood, EPA  
William Adair, FDH

J.R. Wilkinson, CTUIR  
Donna Powaukee, NPT  
Russell Jim, YIN  
Mary Lou Blazek, OOE  
Administrative Record: Liquid Effluents Consent Order