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Department of Energy

Richland Operations Office  
P.O. Box 550  
Richland, Washington 99352

DEC 20 1994

95-PCA-101

Mr. Dave L. Lundstrom  
Nuclear Waste Program  
State of Washington  
Department of Ecology  
1315 W. 4th Avenue  
Kennewick, Washington 99336

Dear Mr. Lundstrom:

PROJECT C-018H ACCEPTANCE TEST DISCHARGE TO THE STATE-APPROVED LAND DISPOSAL SITE

This letter is to inform the State of Washington Department of Ecology (Ecology) of the U.S. Department of Energy, Richland Operations Office (RL) plan to discharge demineralized water to the State-Approved Land Disposal Site (SALDS) associated with the 200 Area Effluent Treatment Facility (ETF). Enclosed is a State Waste Discharge Permit (SWDP) Application for One Time/ Limited Duration Discharges to Ground prepared in order to permit the facility acceptance test discharge from the 200 Area ETF to the SALDS.

The acceptance test discharge is anticipated to begin the week of December 19, 1994, and will last approximately five days. The discharge will be the result of tests, which will be run to verify the operability of the pumps that will discharge wastewater to the SALDS. The discharge for the test will consist entirely of demineralized water (raw Columbia River water that has been run through a filter and ion exchange column). An estimated 379,000 liters (100,000 gallons) will be used in the acceptance test.

Previous construction hydrotest and line flush discharges at the ETF were used for irrigation purposes and did not require permitting. It was assumed that this acceptance test discharge would also be used for irrigation, and therefore a permit would not be required. However, the piping connection from the discharge pumps to the SALDS precludes the discharge from being used for irrigation, and it will be discharged to the SALDS. Consequently, a permit application has been prepared and is being submitted. For this reason, and the tight schedule for testing to support the Hanford Federal Facility Agreement and Consent Order Milestone M-17-14 to start operation of the facility by June 1995, sixty day notification is not possible.



Mr. Dave L. Lundstrom  
95-PCA-101

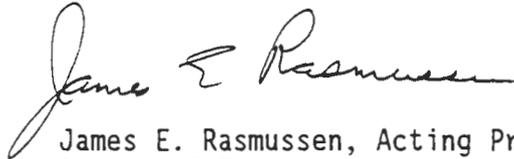
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A State Environmental Policy Act (SEPA) checklist is not being submitted with this application because a checklist covering the environmental impacts of operating the ETF and SALDS was previously submitted to Ecology on February 4, 1993. Ecology made a determination that the Hanford Compliance Environmental Assessment prepared under the National Environmental Policy Act fulfilled the requirements of the SEPA checklist in October 1993, and notified RL of this determination on January 6, 1994.

Should you have any questions regarding this application, please contact me or Mr. R. N. Krekel of my staff on (509) 376-4264.

Sincerely,



James E. Rasmussen, Acting Program Manager  
Office of Environmental Assurance,  
Permits, and Policy

EAP:RNK

Enclosure

cc w/encl:

EDMC, WHC  
B. Atencio, WHC  
W. Dixon, WHC  
D. Flyckt, WHC  
J. Luke, WHC  
T. Veneziano, WHC  
R. Jim, YIN

D. Reale, Ecology  
M. Selby, Ecology  
R. Stanley, Ecology  
D. Sherwood, EPA  
J. Wilkenson, CTUIR  
D. Powaukee, NPT

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STATE WASTE DISCHARGE PERMIT APPLICATION FOR ONE TIME/LIMITED DURATION DISCHARGES TO GROUND - HANFORD SPECIFIC

FOR STATE USE ONLY

Form with fields: Date Application Received, Date Fee Paid, Application/Permit No., Date Application Accepted, Facility No., Temporary Permit Effective Date, Temporary Permit Expiration Date.

This application is for a waste discharge permit as required in accordance with provisions of Chapter 90.48 RCW and Chapter 173-216 WAC. Additional information may be required. Information previously submitted and applicable to this application should be referenced in the appropriate section.

- 1. Company Name: U.S. Department of Energy, Richland Operations Office
2. Unified Business Identification Number (UBI #): DOE-RL Tax Exempt # 91-0565159
3. Mailing Address: P.O. Box 550, Richland, Washington 99352
4. Facility Location: 200 Area Effluent Treatment Facility and SALDS, Richland, Washington 99352
5. Person to contact who is familiar with the information contained in this application: R. N. Krekel, U.S. DOE, Permits & Compliance Assessment, (509)376-4264
6. Proposed Discharge Type: Raw Water (ETF acceptance test discharge)

Anticipated beginning date of discharge: December 19, 1994
Anticipated end date of discharge: Approx. five days after start of discharge.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.

Signature\* (Handwritten signature of James E. Rasmussen)

Date (Handwritten date: 12/20/94)

Acting Program Manager, Office of Environmental Assurance, Permits and Policy

Title

James E. Rasmussen

Printed Name

\*Applications must be signed as follows: Corporation, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by proprietor.

## IDENTIFY WASTE STREAMS

1. Identify the waste stream for each of the production processes or activity.

Characteristics	Waste Stream Name	Batch or Continuous Process	Estimated Quantity	Discharge Location
Demineralized Water	C-018H Verification Tanks Acceptance Test Discharge	Continuous	379,000 Liters (100,000 Gallons)	SALDS (North of 200 West Area)

2. Proposed mitigation measures to minimize impacts of discharge.

The demineralized water from the 200 Area Effluent Treatment Facility (ETF) verification tanks acceptance test will be discharged to the soil column at the State-Approved Land Disposal Site (SALDS). The SALDS is a covered crib, located north of the 200 West Area and will be the disposal site for the ETF once in operation. The discharge rate will fluctuate between 3.79 - 1137 liters/minute (1-300 gallons/minute).

3. Attach or reference any available information regarding wastewater characteristics.

The discharge will consist entirely of raw Columbia River water that was supplied from the export water line that services the 200 East Area. The raw water has been run through a filter and ion exchange column and is demineralized water. The discharge is essentially the same as a discharge that was previously permitted by Ecology from the Liquid Effluent Disposal Facility (LERF) to the 216-B-3 Expansion Pond System. Chemical analyses have been performed on raw river water and the results are available via the Liquid Effluent Monitoring Information System (LEMIS) database or a hard copy can be provided upon request.

Regarding applications for state waste discharge permits, the permittee is deemed to have received a temporary permit if Ecology fails "to act" upon the application within 60 days after it has been filed (RCW 90.48.200). These 60 days do not begin, however, until the SEPA process has been completed.