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Department of Energy

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

NOV 22 1994



95-PCA-057

Mr. David C. Nylander
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. 4th Avenue
Kennewick, Washington 99336

Dear Mr. Nylander:

PROJECT C-018H OPERATIONAL 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 plan to discharge raw 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 Application for One Time/Limited Duration Discharges to Ground prepared in order to permit planned Operational Test Procedure (OTP) discharges to the SALDS.

The OTP discharges are anticipated to occur between January 1995 and March 1995, and will last approximately two days. The OTP for the SALDS will involve testing the operability of all components in the system, pumps, valves, controls and piping between the ETF and the SALDS. An estimated 6.8 million liters (1.8 million gallons) of raw river water will be used in the operational tests. The discharge will provide adequate water to saturate the ground at the disposal site and will provide the opportunity to gather preliminary infiltration data for the SALDS.

During the testing of the ETF, it will be necessary to operate the cooling water system. An estimated 1.9 million liters (500,000 gallons) of raw river water will be discharged to the SALDS. The batch discharges are anticipated to start between January 1995 and March 1995, and continue until the ETF begins operation.

The discharges will consist entirely of raw Columbia River water (unfiltered and unchlorinated) that will be supplied from the export water line that services the 200 East Area. The discharge is essentially the same as a discharge that was previously permitted by Ecology from the Liquid Effluent Retention Facility (LERF) to the 216-B-3 Expansion Pond System (Letter, S. H. Wisness, RL, to D. C. Nylander, Ecology, "Discharge of Liquid Effluent Retention Facility Hydrotesting Water to 216-B-3 Expansion Pond System," EAP:JET, date July 19, 1994).

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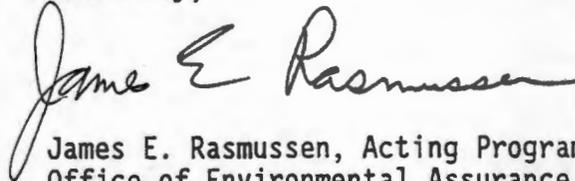
Mr. D. C. Nylander
95-PCA-057

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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 Environmental 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, 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

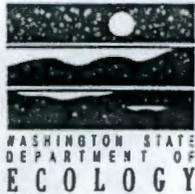
Enclosure:
SWDP Application

cc w/enc1:

Administrative Records, WHC

B. P. Atencio, WHC
W. T. Dixon, WHC
D. L. Flyckt, WHC
T. B. Veneziano, WHC
D. Lundstrum, Ecology
M. A. Selby, Ecology
R. Stanley, Ecology
D. R. Sherwood, EPA
J. R. Wilkenson, CTUIR
D. Powaukee, NPT
R. Jim, YIN

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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 (Operational test)

Anticipated beginning date of discharge: January 1995
Anticipated end date of discharge: June 1995

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: James E. Rasmussen

Date: 11/22/94

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
Raw Water	C-018H OTP Discharge to State-Approved Land Disposal Site (SALDS)	Batch	6.8 Million Liters (1.8 Million Gallons)	SALDS (North of 200 West Area)
Raw Water	Cooling Water System	Batch	1.9 Million Liters (500,000 Gallons)	SALDS (North of 200 West Area)

2. Proposed mitigation measures to minimize impacts of discharge.

The raw water used for operational testing and the cooling water system will be disposed to the soil column at State-Approved Land Disposal Site (SALDS). An average flow rate of 568 L/min (150 gal/min) of raw water will be piped to the SALDS, which is located north of the 200 West Area. The discharge will provide adequate water to saturate the ground at the disposal site and will provide the opportunity to gather infiltration data for the SALDS.

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

This discharge will consist entirely of raw Columbia River water (unfiltered and unchlorinated) that will be supplied from the export water line that services the 200 East Area. The discharge is essentially the same as a discharge that was previously permitted by Ecology from the Liquid Effluent Retention 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.