

**Department of Energy**

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

JUL 01 1992

92-RPB-154

Mr. Charles E. Findley, Director  
Water Division  
U.S. Environmental Protection Agency  
1200 Sixth Avenue, Mail Stop WD-131  
Seattle, Washington 98101

Dear Mr. Findley:

**HANFORD SITE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT  
MODIFICATION REQUEST - PROJECT L-045H**

Enclosed you will find the U.S. Environmental Protection Agency (EPA) General Information Form 1 and Form 2D. This enclosure serves as a request for modification of Hanford Site National Pollutant Discharge Elimination System (NPDES) Permit WA-000374-3.

The modification is being requested to allow for the operation of an outfall to be constructed in the Columbia River. This new outfall will serve the proposed 300 Area Treated Effluent Disposal Facility (TEDF).

The 300 Area serves as a U.S. Department of Energy, (DOE) research center at the Hanford Site in the State of Washington. Within the 300 Area are laboratories, office buildings, and support facilities including a powerhouse, warehouses, and fabrication and maintenance shops. Industrial process effluent from these operations is currently discharged to the soil column in the 300 Area. The 300 Area TEDF will provide Best Available Treatment, Economically Achievable, (BAT) for this effluent and subsequent discharge to the Columbia River. Operation of the 300 Area TEDF will help meet Hanford Federal Facility Agreement And Consent Order Milestone M-17-09, "Complete 300 Area Treated Effluent Disposal System (L-045H) Completion Date will be December 1994."

Enclosed with the EPA forms are several supporting documents. The "Engineering Summary Report, Hanford 300 Area, Treated Effluent Disposal Facility, Project L-045H" is enclosed in response to Item VI of EPA Form 2D and serves as an assessment of BAT for the 300 Area TEDF. The "Columbia River Characterization Data Report in Support of Hanford Project L-045H" is enclosed to provide the permit writer with data regarding physical, chemical, and radiological characterization of the Columbia River within, and upstream of, the 300 Area. (The radiological characterization data are provided for information only). This document combines the results of several sampling activities by both the U.S. Geological Survey and the DOE Richland Field Office, encompassing spring and fall flow conditions. The "Hanford 300 Area Process Wastewater Characterization Data Report" is enclosed to provide the permit writer with data regarding the levels of constituents in the effluent to be treated by the 300 Area TEDF.



Mr. Charles E. Findley  
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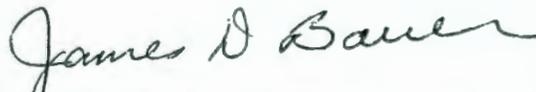
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Section 401 of the Clean Water Act requires that, for permits written by the EPA, the state in which the permittee is located certify that the effluent limits set forth in the permit do not exceed the appropriate receiving water quality standards for that state. Accordingly, a copy of the enclosed material is being provided to the State of Washington Department of Ecology, to facilitate review of the effluent limits that will be established by the permit for the 300 Area TEDF.

Start of construction for the 300 Area TEDF is scheduled for June 1993. Though the NPDES permitting process does not prohibit facility construction, effluent limits imposed by the permit could require modification of the facility design, or even the facility itself, if those effluent limits cannot be achieved by the proposed treatment train. Therefore, it is the desire of this office to complete the NPDES permitting process before the June 1993 date.

Should you have any questions, or require additional information or clarification, please contact Mr. S. D. Stites of my staff on (509) 376-8566.

Sincerely

  
for R. D. Izatt, Program Manager  
Office of Environmental Assurance,  
Permits, and Policy

Enclosures:

1. NPDES Permit Modification Request
2. Engineering Summary Report, TEDF
3. Columbia River Characterization Data Report
4. 300 Area Process Wastewater Characterization Data Report

cc: G. Anderson, Ecology, w/encl.  
P. T. Day, EPA, w/o encl.  
R. E. Lerch, WHC, w/o encl.  
R. W. Oldham, WHC, w/o encl.

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Subject: HANFORD SITE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT  
MODIFICATION REQUEST - PROJECT L-045H

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