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STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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May 31, 2007

Mr. Don L. Flyckt
Liquid Waste Processing Facilities
Fluor Hanford, Inc.
P.O. Box 1000, MSIN: S6-71
Richland, Washington 99352

RECEIVED
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EDMC

Re: Approval by the Department of Ecology for the *105-NE Building Fission Products Trap Wastewater Characterization Evaluation* under State Waste Discharge Permit ST4500

Reference: FH-0700900, Letter from D.L. Flyckt, FH, to K. Conaway, Ecology, dated May 7, 2007

Dear Mr. Flyckt:

The Department of Ecology has reviewed the *105-NE Building Fission Products Trap Wastewater Characterization Evaluation* for treatment in the Effluent Treatment Facility (ETF) and the discharge to the state-approved land disposal site. The expectation is that Washington Closure Hanford will ship about 3,000 gallons of the 105-NE Building fission products trap wastewater. This wastewater contains substantial dissolved salts, including boron, at levels higher than previously received at ETF for treatment. Sample analysis also indicates the mixture is radioactive. The concentration of boron is the constituent of concern for this proposed new influent.

ETF's attached evaluation summary states that the wastewater is primarily contaminated water from N Reactor operations, plus rainwater intrusion. Boron, which has been treated at ETF, but at a lower influent concentration, is present in the wastewater. ETF has demonstrated and Ecology agrees that the ETF can effectively treat boron to below background levels, as summarized in Table 1 of the submitted Characterization Evaluation. The information provided meets the requirement of Permit Condition S9, Influent Criteria. We determined that the proposed new influent, 105-NE Building fission products trap wastewater (contaminated water and rainwater intrusion) with the higher level of boron (described in the characterization and engineering evaluation along with the influent description) can be accepted into the ETF for treatment and discharge. In addition, Ecology agrees that all known, available, and reasonable methods of treatment (AKART) were evaluated and the ETF is considered as the best available technology/AKART for treatment of the field testing waste.

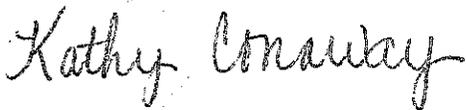
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Ecology grants approval and the Liquid Processing and Capsule Storage facility can begin treating the subject wastewater.

ST4500 Permit Condition S9, (3) requires that new influent streams be reported to Ecology each calendar quarter at the same time as the Discharge Monitoring Report for that calendar quarter is submitted.

If you have any questions, please contact me at 509-372-7890.

Sincerely,



Kathy Conaway
LPCS Permit Manager
Nuclear Waste Program

pll

cc: Nick Ceto, EPA
Briant Charboneau, USDOE
Mark French, USDOE
Mary Jarvis, USDOE
Ed MacAlister, USDOE
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Administrative Record: ST4500 *H-0-22*
Environmental Portal