



U.S. Department of Energy

Office of River Protection

0062557

P.O. Box 450
Richland, Washington 99352

04-ED-066

AUG 25 2004

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
3100 Port of Benton Blvd.
Richland, Washington 99352

RECEIVED
AUG 30 2004

EDMC

Dear Mr. Wilson:

SUBMITTAL OF PERMIT DESIGN PACKAGES NOS. PTF-011, PTF-028, AND PTF-045, REVISION 0, FOR THE WASTE TREATMENT AND IMMOBILIZATION PLANT (WTP)

- References:
1. WA7890008967, "Dangerous Waste Portion of the Hanford Facility Resource Conservation and Recovery Act Permit for the Treatment, Storage, and Disposal of Dangerous Waste, Chapter 10 and Attachment 51, 'Waste Treatment and Immobilization Plant.'"
 2. ORP letter from R. J. Schepens to M. A. Wilson, Ecology, "Submittal of Permit Design Packages Nos. PTF-039 and PTF-064 for the Waste Treatment and Immobilization Plant," dated April 9, 2004.

This letter submits the following WTP permit design packages for the State of Washington Department of Ecology (Ecology) approval, in accordance with the reference:

- PTF-011, Revision 0, "Tank Systems for PT Facility CNP System;"
- PTF-028, Revision 0, "Tank System Ancillary Equipment for PT Facility CNP System;" and
- PTF-045, Revision 0, "Miscellaneous Unit System Equipment for PT Facility CNP System."

The attached WTP Pretreatment Facility (PTF) packages provide the information necessary for Ecology to confirm that the structures, equipment, and processes described in the permit packages will comply with the Reference. This information will allow Ecology to permit the installation of three Cesium Nitric Acid Recovery (CNP) system vessels, the associated ancillary equipment for the vessels, and the ancillary equipment for the miscellaneous unit system equipment associated with the six CNP Miscellaneous units. These units are the Cesium Evaporator Separator Vessel (CNP-EVAP-00001), the Cesium Evaporator Concentrate Reboiler (CNP-HX-00001), the Cesium Evaporator Primary Condenser (CNP-HX-00002), the Cesium Evaporator Inter-Condenser (CNP-HX-00003), the Cesium Evaporator After-Condenser (CNP-HX-00004), and the Cesium Evaporator Nitric Acid Rectifier (CNP-DISTC-00001). The approval request for the six miscellaneous units is planned for a future submittal.

Mr. Michael A. Wilson
04-ED-066

-2-

AUG 25 2004

Summary descriptions of the permit packages are included in Attachment 1. Attachment 2 provides the permit design packages and Attachment 3 provides the Bechtel National, Inc. and U.S. Department of Energy, Office of River Protection certification statements.

Dangerous Waste Permit (DWP) package submittals are certified coincident with issuance of the integrity assessment report contained in the package. Permit affecting design changes not included in, or occurring after issuance of, the final integrity assessment report will be processed in accordance with DWP requirements for permit modification prior to construction or installation of affected equipment and components. Installation of equipment and components will be done in accordance with permit packages approved and incorporated into the DWP by Ecology.

Please note that permit general arrangement plan for Elevation 0 ft., 24590-PTF-P1-P01T-P0001, Revision 3, was transmitted to Ecology in permit package PTF-064 under the U.S. Department of Energy, Office of River Protection (ORP) letter 04-ED-040. The drawing has undergone public review and is being considered for approval by Ecology for inclusion in Reference 1. Since the permit general arrangement plan's transmittal, its source drawing, 24590-PTF-P1-P01T-00001, was updated to Revision 4. The revision to the source drawing includes the removal of the Cesium Evaporator Concentrate Lute Pot, CNP-VSL-00002, from the CNP system. This is consistent with the CNP system addressed in PTF-011; however, the permit general arrangement plan referenced in the attached permit design packages still identifies CNP-VSL-00002 in black cell P-0112. An update to 24590-PTF-P1-P01T-P00001 will be provided to address updates and reflect the current source drawings. The revised general arrangement plan will be provided in an updated containment package, anticipated for submittal by October 2004.

Due to the potential sensitivity of the attached engineering information, Ecology is requested to place the data for public review in the standard information repositories, but not provide electronic dissemination of the information.

If you have any questions, please contact me, or your staff may contact Lori A. Huffman, Environmental Division, (509) 376-0104.

Sincerely,


Roy J. Schepens
Manager

ED:LAH

Attachments: (3)

cc: See page 3

Mr. Michael A. Wilson
04-ED-066

-3-

AUG 25 2004

cc w/attachs:

B. G. Erlandson, BNI
J. P. Henschel, BNI
J. Markillie, BNI (w/o attachs)
J. Cox, CTUIR
S. Harris, CTUIR
R. K. Biyani, Ecology
S. L. Dahl, Ecology
G. P. Davis, Ecology (w/o attachs)
S. J. Skurla, Ecology (22)
P. Sobotta, NPT
K. Niles, Oregon Energy (w/o attachs)
J. B. Hebdon, RL (w/o attachs)
A. C. McKarns, RL
R. Jim, YN
Administrative Record
Environmental Portal, LMSI