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50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397

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RECIP.NAME RECIPIENT AFFILIATION
NORRIS,J.A. Siting Analysis Branch

SUBJECT: Forwards input for DES re potential use of water stored in FDR lake.

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United States Department of the Interior
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BOISE, IDAHO 83724

IN REPLY REFER TO: PN 150
651.

FEB 19 1982

Mr. J.A. Norris
Senior Siting Engineer
U.S. Nuclear Regulatory Commission
Siting Analysis Branch
Mail Stop AR-5200
Washington, D.C. 20555

Dear Mr. Norris:

We have enclosed a presentation of information which we feel should be included in the Skagit/Hanford Nuclear Project Draft Environmental Impact Statement to cover the potential use of water stored in Franklin D. Roosevelt Lake at the proposed nuclear powerplant. The inclusion of this material in the EIS should provide a thorough description for the FDR Lake water supply alternative and potential impacts. It will also serve to document the Bureau of Reclamation's cooperating agency role and thus avoid the need for further NEPA compliance activity should the FDR Lake water supply alternative be chosen.

Our intention is to provide the information which we feel is necessary to cover the water contracting potential. It may not be in the precise format needed to fit your document or it may need to be placed in additional locations in the Draft EIS. Please feel free to contact us (Douglas James FTS 554-1208) if you have questions about the appropriateness of any such changes or need further information.

We will be glad to give quick review of those sections covering our involvement as soon as they have been prepared.

Sincerely yours,

L. W. Lloyd

Regional Director

Enclosure

Coor B
D1/1 Add: J. A. Norris

Bureau of Reclamation
Input for
Skagit/Hanford Nuclear Project DEIS

General:

Cooperating Agency Status --- The Bureau of Reclamation role should be cited on DEIS cover page, in the Summary, and elsewhere in the body of DEIS as needed to reflect clearly the Bureau's cooperating agency status in the NEPA process.

Summary:

Listing of Permits and Approvals Needed --- Section should include - U.S. Department of the Interior, Bureau of Reclamation - Water Service Contract would be required if the water supply alternative selected is the use of water stored in Franklin D. Roosevelt (FDR) Lake.

Water Source Alternatives --- The alternative's discussion should include purchase of water service from the Bureau of Reclamation's water right in FDR Lake for delivery via the Columbia River to the Hanford intake site selected by Puget Power.

Impact --- The proposed withdrawal of water from FDR Lake would result in a minor reduction in the supply of water available for other potential uses at the reservoir and downstream.

Draft EIS (Body of Document):

Description of Alternatives --- The description of the water supply source alternative using FDR Lake storage should include information on the amount of water to be contracted for (peak?, average?), schedule of delivery, means of conveyance, etc. The following paragraph is a rough draft of such a description based on information we now have available on Puget Power and Lights potential water contracting requirements. It should be updated if additional information becomes available in your writing process.

> An alternative source for obtaining the water supply would be to contract for storage water from the Bureau of Reclamation's Franklin D. Roosevelt Lake in Northeastern Washington. The required 97 cfs flow would be delivered continuously via the Columbia River to the proposed intake site near the old Hanford townsite.

Description of Existing Environment --- A major source of water in the project area is the Columbia River. The state of Washington authorizes all rights, permits, and withdrawals from the Columbia River above the confluence of the Snake River. All new water rights are subject to the instream flow requirements of the State of Washington.

The U.S. Bureau of Reclamation holds rights, permits, and withdrawals issued by the State of Washington totaling 25,000 cfs for irrigation (Columbia Basin Project) and 310,000 cfs for power generation. The amount of water to be used for irrigation includes 11,550 cfs which is allocated for future development of 429,000 acres of the Columbia Basin Project land. The water use for power

generation operates the three powerplants of Grand Coulee Dam and two existing pump turbine generating units. Four additional pump turbine generating units are currently being installed. Rights for an additional 52 cfs for thermal power generation are pending.

Since the construction of the Third Powerplant at Grand Coulee Dam and the increased requests for water from Franklin D. Roosevelt Lake, the Bureau has required all municipal and industrial users of reservoir water to enter into a Water Service Contract with the agency. This contract allows the agency compensation for use of the reservoir water.

The number of applications, permits, and withdrawals from FDR Lake on file with the Washington State Department of Ecology as of June 1980 totaled 118. Only two of the users were registered as having or seeking rights to divert more than 10 cfs.

The remainder of the registered water rights for the Lake are for small volume uses (less than 10 cfs). These registered rights total 113.636 cfs and pending applications account for an additional 10.04 cfs. This water is used for irrigation, livestock watering, frost and fire control, domestic, minicipal and industrial applications.

Large and small users of FDR Lake water collectively have 335,215.63 cfs appropriated, and there are applications pending on an additional 62.04 cfs. Other possible claims to water rights could be made by the Colville and Spokane Indian Tribes. In addition, the Mt. Tolman Molydenum mining operation on the Colville Reservation and Washington Water Power Company's Creston Steam Electric Generating Station are projected major users of FDR Lake waters.

Potential Impacts of Using FDR Lake as the Water Supply Sources --- Water Released from FDR Lake to satisfy the needs of the Skagit/Hanford Nuclear Project would have relatively minor affect on power production at Grand Coulee Dam or at other mid-Columbia hydroelectric facilities since the required amount (97 cfs) is considerably less than the average flow. In any event, the instream flow at and below the Hanford reach would not be less under this alternative than would otherwise prevail since releases up to the 97 cfs consumptive requirement could be made from FDR Lake to match Puget Power's diversions.

Even under worst case circumstances during low water years and high power demand, the relatively small amount of water released and resultant draw on FDR Lake should not significantly impact fish, wildlife or recreation. The total amount of water appropriated from FDR Lake, excluding the irrigation water for the Columbia Basin Project, is less than one half of 1% of the average flow of the Columbia River at Grand Coulee Dam.