



Washington Public Power Supply System  
A JOINT OPERATING AGENCY

P. O. Box 968 3000 GEO. WASHINGTON WAY RICHLAND, WASHINGTON 99352 PHONE (509) 375-5000

December 19, 1978  
G03-78-1182

Docket Nos. 50-508  
and 50-509

Director of Nuclear Reactor Regulation  
ATTENTION: O. D. Parr, Chief  
Light Water Reactors Branch No. 3  
U. S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Subject: WPPSS NUCLEAR PROJECT NOS. 3 AND 5  
GROUNDWATER DRAINAGE SYSTEM  
DESIGN PARAMETERS - THIRD SUPPLEMENT

- References:
- 1) Letter, D. L. Renberger to O. D. Parr, NRC Review of WNP-3 Groundwater Drainage Design Parameters, dated March 7, 1978
  - 2) Letter, D. L. Renberger to O. D. Parr, Groundwater Drainage System Design Parameters - First Supplement, dated June 1, 1978
  - 3) Letter, D. L. Renberger to O. D. Parr, Groundwater Drainage System Design Parameters - Second Supplement, dated September 1, 1978

Dear Mr. Parr:

The above referenced letters transmitted the reports of WPPSS' Engineer, Ebasco Services, Incorporated, which provided analysis of the groundwater drainage system and all pertinent data available. Reference (1) also provided the groundwater drainage system final design and other related information bearing on system performance.

The attached report of our Engineer provides an update of the groundwater data provided by references (1), (2) and (3), an analysis of that data, and increased piezometer coverage of the excavation perimeter. Quantitative evaluation of the adequacy of the groundwater drainage system is premature at this time due to incomplete data.

Installation of the WNP-3/5 groundwater drainage system is now complete. Groundwater flow measurements will provide usable data when the system is sealed from surface water infiltration by concrete placement.

7812290148

A

O. D. Parr, Chief  
Page Two

Although no quantitative conclusions can be drawn at this time regarding the adequacy of the system design, it is apparent the parameters used in developing the final design, as discussed in the PSAR, are conservative and the system will function as required.

WPPSS' next supplementary report on groundwater drainage system parameters will include data from 16 additional WNP-5 piezometers. Should you desire further information during the interim period, please contact our Mr. R. C. Douglas.

Very truly yours,

*D L Renberger*

D. L. RENBERGER  
Assistant Director  
~~Generation and~~ Technology

DLR:RCD:ds

cc: D. Smithpeter (BPA)  
N. S. Reynolds - DeBevoise & Liberman

STATE OF WASHINGTON )  
                          ) ss  
COUNTY OF BENTON   )

D. L. RENBERGER, Being first duly sworn, deposes and says: That he is the Assistant Director, ~~Generation and~~ Technology, for the WASHINGTON PUBLIC POWER SUPPLY SYSTEM, the applicant herein; that he is authorized to submit the foregoing on behalf of said applicant; that he has read the foregoing and knows the contents thereof; and believes the same to be true to the best of his knowledge.

DATED December 18, 1978

D L Renberger  
D. L. RENBERGER

On this day personally appeared before me D. L. RENBERGER to me known to be the individual who executed the foregoing instrument and acknowledged that he signed the same as his free act and deed for the uses and purposes therein mentioned.

GIVEN under my hand and seal this 18th day of December, 1978.

Bela B. Helgeson  
Notary Public in and for the State of  
Washington  
Residing at Spokane