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 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397  
 AUTH. NAME: RENBERGER, D.L. AUTHOR AFFILIATION: Washington Public Power Supply System  
 RECIP. NAME: YOUNGBLOOD, B.J. RECIPIENT AFFILIATION: Licensing Branch 1

MA/4

SUBJECT: Forwards Suppl 1 to "Engineering Evaluation of WPPSS Unit 2  
 Sacrificial Shield Wall," in response to open items required  
 for NRC approval of proposed replacement weld in sacrificial  
 shield wall. Affidavit encl.

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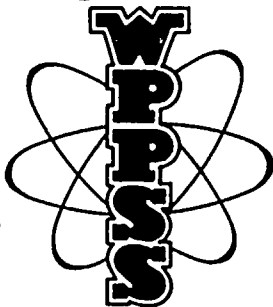
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Washington Public Power Supply System  
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August 19, 1980  
G02-80-182

Docket No. 50-397

Director, Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. B.J. Youngblood, Chief  
Licensing Branch No. 1  
Division of Licensing

Dear Mr. Youngblood:

Subject: WPPSS Nuclear Project No. 2  
Engineering Evaluation of the  
Sacrificial Shield Wall (SSW)

Reference: WPPSS to NRC letter, same subject, G02-80-167, August 1, 1980

The reference transmitted to NRR a report on the subject which in conjunction with the meeting held at your offices on August 6, 1980, was intended to form the basis for NRR approval of a proposed replacement weld. In that meeting several items were identified which required a formal reply in order to close the issues associated with the SSW. Specifically,

- o Clarify the original intent of the dimensional tolerances associated with the fabrication of the SSW,
- o Provide the as-built dimensional information associated with the out-of-roundness and verticality of the SSW adjacent to the 541'-5" elevation,
- o Provide the design margin of the original plug weld design,
- o Provide an assessment of the secondary stresses of the proposed partial penetration weld due to its eccentricity,
- o Discuss the leachability of lead from the selected shield material and provide the results of the various qualification tests, and
- o Provide the rationale for leaving known defects in the SSW.

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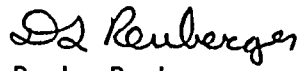


Mr. B.J. Youngblood  
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Each of the above items is discussed in the enclosure to this letter, a supplement to the original report entitled "Engineering Evaluation of the WNP-2 Sacrificial Shield Wall", submitted with the reference. The NRR concerns were discussed informally in your offices on August 15, 1980, with the responsible Structural Engineering Branch reviewer. It is our understanding that these concerns are now resolved, and as such, the technical issues being reviewed by NRR on the subject weld may be closed.

Due to our schedule needs for release of the SSW, we respectfully request that you expedite processing a letter stating your concurrence with the proposed replacement weld. A copy of this letter should also be transmitted to the Office of Inspection and Enforcement in order to prevent schedule delays.

Very truly yours,

  
D. L. Renberger  
Assistant Director  
Technology

DLR:DCT:rmm

Enclosure: Supplement to Engineering Evaluation Report  
on Sacrificial Shield Wall (30)

cc: V. Stello, NRC  
RH Engelken, NRC  
ND Lewis, EFSEC, Olympia  
JR Lewis, BPA  
JJ Verderber, B&R - New York  
RC Root, B&R Site  
GT Harper, B&R - Site  
AD Toth, NRC, Region V  
WNP-2 Files

STATE OF WASHINGTON)  
COUNTY OF BENTON ) ss

D. L. RENBERGER, Being first duly sworn, deposes and says: That he is the Assistant Director, 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 August 19, 1980

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 19<sup>th</sup> day of August, 1980

Shang Louie  
Notary Public in and for the State  
of Washington  
Residing at Kennewick

