

**Washington Public Power Supply System**

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

September 1, 1981

G02-81-0262

Docket No. 50-397

Mr. R. H. Engelken  
U. S. Nuclear Regulatory Commission  
Region V  
Suite 202, Walnut Creek Plaza  
1990 North California Boulevard  
Walnut Creek, California 945

Dear Mr. Engelken:

Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2  
REPORTABLE DEFICIENCY - 10CFR50.55(e) #146  
POTENTIALLY REPORTABLE CONDITION ON SOIL  
BACKFILL, COMPACTION AND TESTING

Your office was informed by telephone on March 20, 1981 of a potentially reportable condition concerning soil backfill documentation. We submitted an interim report on this condition on April 22, 1981, letter #G02-81-0083.

Attached is our updated report on this condition. We will provide another report by December 15, 1981.

If you have any questions, please contact R. T. Johnson at (509) 377-2501 extension 2712.

Very truly yours,

*R. G. Matlock*  
R. G. Matlock  
Program Director, WNP-2

RGM/SLN/kh

Attachment:  
1. Updated Report

cc:  
WS Chin, BPA  
A Forrest, HAPD  
G Hudak, B&R Site  
ND Lewis, NRC  
TA Mangelsdorf, Bechtel  
WNP-2 Files  
RE Snaith, B&R NY  
V Stello, NRC  
AD Toth, NRC Resident Inspector, WNP-2  
J Plunkett, NRC



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# WASHINGTON PUBLIC POWER SUPPLY SYSTEM

Docket No. 50-397  
License No. CPPR-93

Soil Backfill (WNP-2-PR-146)

## UPDATED REPORT

### Description of Deficiency

Soil testing for Class I backfill may have been performed incorrectly. There appears to be a lack of documentation regarding the backfill.

### Approach to Resolution of the Deficiency

Intensive efforts have been expended to locate records defining Class I backfill areas backfilled after May 1976. An alternate approach requiring more comprehensive testing is being prepared in case these areas cannot be identified. A testing program will be undertaken to determine in-situ densities in those areas defined by the documentation search. The testing program will utilize indirect determination of density by standard penetration testing (ASTM-D-1586) and by penetrometer testing. When the fill is exposed in excavations, penetrometer testing will be used and where the fill is not accessible, the standard penetration testing will be used. All the testing results will be correlated to known density values in pre-selected fill test sections.

### Status of Proposed Resolution

- Some information has been received from the 215 Contractor. This information is being evaluated.
- Maps exist indicating areas where Class I fill is located.
- The 210 and 218 contractors have been requested to provide data on Quality Class I backfill areas and personal contact is being maintained to expedite the retrieval.
- The engineer will proceed with implementation of a test program on September 15, 1981 with all information available at that time.

Reason for Delay of Final Report

Response from only one contractor has been received. Responses from the 218 contractor (F/L) and the 210 contractor (PKS) are still pending.

Projected Completion of Corrective Action and Submittal of Update or Final Report

A final report or update will be provided by December 15, 1981.