

### Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000  
October 23, 1981  
G02-81-414

Docket No. 50-397

Mr. R. H. Engelken  
U. S. Nuclear Regulatory Commission  
Region V  
1450 Maria Lane  
Suite 210  
Walnut Creek, California 94596



Dear Mr. Engelken:

Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2  
REPORTABLE CONDITION-10CFR50.55(e) #170  
DEBRIS AND FOREIGN MATERIAL IN SAFETY  
RELATED SYSTEMS

Your office was informed by telephone on September 25, 1981, of a generic condition concerning several instances of foreign material found inside previously inspected, completed Class I systems.

Our evaluation of this condition has determined it to be reportable under 10CFR50.55(e).

Attached is our final report on this condition.

Very truly yours,

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

RGM/SLN/kh

Attachment:  
1. As stated.

cc:  
WS Chin BPA  
A Forrest HAPO  
ND Lewis NRC  
J Plunkett NRC  
RE Snaith B&R NY  
V Stello NRC  
AD Toth NRC Resident Inspector WNP-2  
WNP-2 Files

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## FINAL REPORT

WASHINGTON PUBLIC POWER SUPPLY SYSTEM

DOCKET NO. 50-397

LICENSES NO. CPPR-93

10CFR50.55(e) REPORTABLE CONDITION #170

DEBRIS AND FOREIGN MATERIAL IN SAFETY RELATED SYSTEMS

### Description of Deficiency

During recent provisional acceptance checks foreign material and debris have been identified in safety related systems.

The mechanical contractor procedures required a cleanliness inspection to be performed prior to fit-up of pipe and closure of equipment. Cut pipe was also to be examined to determine the internal presence of any loose foreign material. However, these inspections were apparently not performed. There are three documented instances of materials being found inside Class I completed systems:

1. Metal tailings in the 24" turbocharger suction line to standby diesel generator engine 1A2. The loose material in the pipe was identified by WBG on a maintenance work order dated 12-4-79 and on NCR 08022, dated 6-16-81.
2. Two nails found on 9-21-81 in RHR-P-2B by Supply System Startup, one in the third stage wear ring. Identified on Startup Deficiency Report SDR-M1085 dated 9-21-81.
3. A three foot 1" x 2" piece of wood found inside pump RHR-2PR on 9-21-81. Identified on Startup Deficiency Report SDR-M1085 dated 9-21-81.

A review of the RHR-P-2B record package did not provide any inspection records for cleanliness. Further investigation revealed that this pump had inadvertently been back flooded during the flushing of another system or portion of the RHR system by Supply System Startup.

### Safety Significance

The above documented instances if not discovered could have resulted in failure of the safety related diesel generator and failures of pumps RHR-2PR and RHR-P-2B.

### Corrective Action

Bechtel has assumed responsibility for the mechanical installation work and is required to perform the Quality Control functions previously assigned as the responsibility of WBG.

Bechtel Quality Control Instructions (QCI's) require cleanliness inspections on piping prior to fit-up and on components prior to closure. The inspections are documented on QC Inspection Report (QCIR).

With the requirements of QCI's and QCIR's, suitable provisions exist to preclude similar occurrences in new systems or components. The Supply System will perform audits/surveillances of this activity to assure conformance.