

# PRIORITY 1

(ACCELERATED RIDS PROCESSING)

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PARRISH, J.V.      Washington Public Power Supply System  
RECIP. NAME      RECIPIENT AFFILIATION  
CALLAN, L.J.      Region 4 (Post 820201)

SUBJECT: Special rept: on 951026, RB effluent monitoring sys inoperable  
for 72 h due to failure of mid range stack monitor. Cryostat  
cooling assemblies for mid & high range stack monitors  
returned to vendor for refurbishment.

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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November 8, 1995  
GO2-95-238

Docket No. 50-397

L.J. Callan  
Regional Administrator  
U.S. Nuclear Regulatory Commission  
Region IV  
611 Ryan Plaza Drive, Suite 400  
Arlington, TX 76011-8064

Dear Mr. Callan:

Subject: WNP-2, OPERATING LICENSE NPF-21  
SPECIAL REPORT: REACTOR BUILDING EFFLUENT MONITORING  
SYSTEM

This special report is submitted pursuant to the requirements of WNP-2 Technical Specification Section 3.3.7.5, "Accident Monitoring Instrumentation," including Table 3.3.7.5-1, Item 31, "Reactor Building Effluent Monitoring System." Item 31 references Action 81 which states: "With the number of OPERABLE accident monitoring instrumentation channels less than required by the Minimum Channels OPERABLE requirement, either restore the inoperable channel(s) to OPERABLE status within 72 hours, or: . . . prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days following the event. . ." At 0935 hours on October 26, 1995 the Reactor Building Effluent Monitoring System was inoperable for 72 hours requiring the submittal of this special report.

Event Description

The 72 hour Technical Specification Action Statement for the Reactor Building Effluent Radiation Monitoring System was entered at 0935 hours on October 23, 1995 when the mid range stack monitor (PRM-RE-1B) failed, as indicated by actuation of the Main Control Room "Stack Monitor System Trouble" annunciator. Subsequently, the high range stack monitor (PRM-RE-1C) failed. These stack monitors are part of the Reactor Building Effluent Monitoring System which is required to be in service during Operational Conditions 1, 2, and 3 in accordance with Technical Specification Table 3.3.7.5-1, Item 31. Both the mid range and high range stack monitors are required for the Reactor Building Effluent Radiation Monitoring System to be operable.

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## SPECIAL REPORT: REACTOR BUILDING EFFLUENT MONITORING SYSTEM

### Action Taken

The Backup Emergency Dose Projection System was verified operable as the preplanned alternate monitoring method in accordance with Table 3.3.7.5-1 Action 81 requirements and initiated at 1356 hours on October 23, 1995.

A work request was issued to identify and correct the failures of the mid and high range stack monitors.

### Cause of the Inoperability

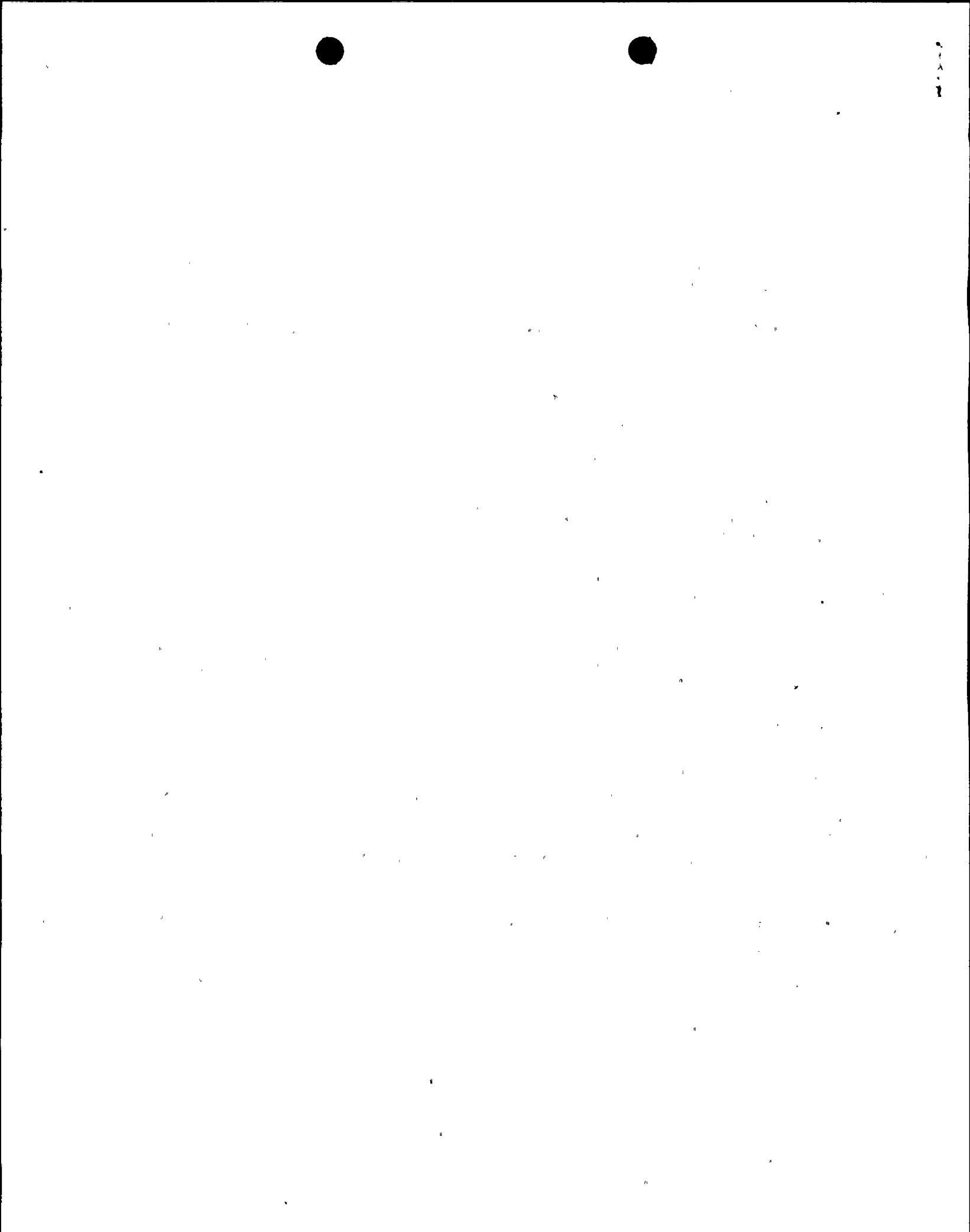
This is another instance of recurring stack monitor failures in 1994 and 1995. An engineering investigation has been initiated to identify the underlying causes of the repeated failures. The investigation involves examination of vendor failure reports as well as consideration of the specific installation details at WNP-2. Inasmuch as the vendor failure report for the current failures will not be available until early December, a schedule for completion of the investigation cannot be finalized at this time. The status of the investigation and a schedule will be communicated to staff by December 11, 1995. WNP-2 will take such long-term action as determined appropriate from the engineering investigation.

In the short term, significant efforts are being made to restore the Reactor Building Effluent Radiation Monitoring System to operability. Our initial investigation has determined the detector failures occurred because of degraded cooling. As a result, the cryostat cooling assemblies for both monitors were returned to the vendor for refurbishment.

### System Status

The refurbished mid range cooling assembly will be available on-site for reinstallation on November 10, 1995. The reinstallation is a lengthy process that requires a controlled cooldown of the detector unit to cryogenic temperatures. The entire process including installation, off-gassing, cooldown, and thermal stabilization takes approximately 48 hours, at which time testing and calibration can be initiated. Consequently, the unit is scheduled to be returned to service by November 16, 1995.

The refurbished high range cooling assembly is expected to be available on-site for re-installation on November 17, 1995. Reinstallation and testing is scheduled to return the unit to service by November 23, 1995, which will restore the Reactor Building Effluent Radiation Monitoring System to operability.

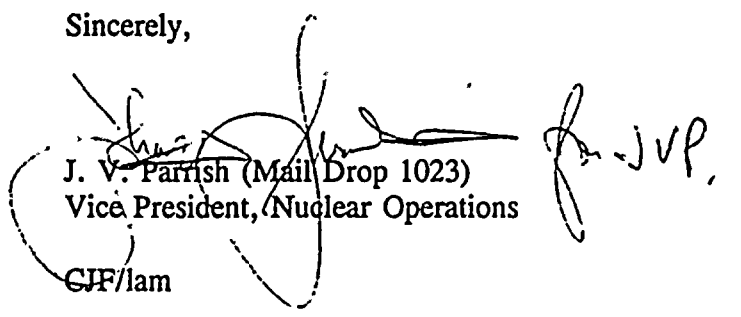


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**SPECIAL REPORT: REACTOR BUILDING EFFLUENT MONITORING SYSTEM**

Should you have any questions or desire additional information regarding this matter, please call me or D.A. Swank at (509) 377-4563.

Sincerely,

  
J. V. Parrish (Mail Drop 1023)  
Vice President, Nuclear Operations

CJF/lam

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