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 PARRISH, J.V. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 FAULKENBERRY, B. Region 5 (Post 820201)

SUBJECT: Special rept: on 931126, main control room received stack monitor sys trouble annunciator & status display indicated high range channel failed self-test. Caused by component failure of stack monitor detector. Replacement in progress.

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EXTERNAL:	EG&G BRYCE, J.H		2	2		L ST LOBBY WARD		1	1	
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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December 10, 1993
G02-93-290

Docket No. 50-397

Mr. B. H. Faulkenberry
Regional Administrator
US Nuclear Regulatory Commission
Region V
1450 Maria Lane
Walnut Creek, CA. 94596

Dear Mr. Faulkenberry:

Subject: WNP-2, OPERATING LICENSE NO. 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." This Technical Specification includes 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: . . . In lieu of any other report required by Specification 6.9.1, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within 14 days following the event outlining the action taken, the cause of the inoperability and the plans and schedule for restoring the system to OPERABLE status." At 0854 hours on November 29, 1993, the Reactor Building Effluent Monitoring System was inoperable for 72 hours requiring the submittal of this special report.

Event Description

On November 26, 1993 at 0854 hours, the Main Control Room received a "Stack Monitor System Trouble" annunciator. The Stack Monitor Status Display indicated that the high range channel (PRM-RE-1C) had failed its self-test. The stack monitor is part of the Reactor Building Effluent Monitoring System which is required to be in service during Operating Conditions 1, 2, and 3 in accordance with Technical Specification Table 3.3.7.5-1 (Item 31).

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SPECIAL REPORT: REACTOR BUILDING EFFLUENT MONITORING SYSTEM

Action Taken

Immediate corrective action was taken to declare the stack monitor inoperable. The System Engineer was then notified and Limiting Condition for Operation (LCO) 3.3.7.5 Action Statement No. 81 was entered to initiate the preplanned alternate monitoring method and submit this special report.

Troubleshooting by the System Engineer on November 26, 1993 indicated a failure of the cryogenically cooled stack monitor detector. Additional troubleshooting on November 28, 1993 confirmed the initial findings. The equipment vendor (EG&G ORTEC) was contacted on November 29, 1993 for assistance in determining the location of the fault. Because the stack monitor detector requires a controlled warm-up and cooldown from 70° Kelvin (-333.4° F), a process that takes approximately 48 hours, the vendor recommended replacement of several components within the detector preamplifier before proceeding with detector replacement. The vendor supplied preamplifier components were installed on December 2, 1993 but subsequent testing on December 3, 1993 indicated that the fault had not been corrected. The vendor determined that the fault was internal to the stack monitor detector, requiring replacement.

Cause of the Inoperability

The cause of the Reactor Building Effluent Monitoring System inoperability was a component failure of the stack monitor detector. However, the cause of the detector failure has not been determined because the fault apparently resides within the high-vacuum, sealed detector canister. The detector will be returned to the vendor for warranty repair.

Plans and Schedule for Restoring the System to Operable Status

The stack monitor detector replacement work is currently in progress with completion of installation and calibration expected by December 17, 1993.

Sincerely,



J. V. Parrish (Mail Drop 1023)
Assistant Managing Director, Operations

CDM/bk

cc: Document Control Desk
NS Reynolds - Winston & Strawn
JW Clifford - NRC
DL Williams - BPA/399
NRC Site Inspector - 927N



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Special Report: Reactor Building Effluent Monitoring System

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