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POWERS,C.M. Washington Public Power Supply System  
RECIP.NAME RECIPIENT AFFILIATION  
MARTIN,J.B. Region 5, Ofc of the Director

SUBJECT: Special rept:on 890306,post-accident sampling primary  
coolant radiation monitor inoperable.

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Docket No. 50-397

March 22, 1989

Mr. J.B. Martin  
Regional Administrator  
USNRC, Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, CA 94596

Dear Mr. Martin:

SUBJECT: NUCLEAR PLANT NO. 2  
LICENSE NO. NPF-21  
SPECIAL REPORT: POST-ACCIDENT SAMPLING PRIMARY COOLANT RADIATION  
MONITOR

REFERENCE: Letter, GC Sorensen (SS) to JB Martin (NRC), "Special Report:  
Post-Accident Sampling Containment Atmosphere Radiation Monitor,"  
Dated February 16, 1989

This special report is submitted pursuant to the requirements of WNP-2  
Technical Specification Table 3.3.7.5-1 (Instrument No. 29: Post Accident  
Sampling Primary Coolant Radiation Monitor), Action Statement 81.

Action Statement 81 requires, "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:

- (a) Initiate the preplanned alternate method of monitoring the appropriate  
parameter(s), and
- (b) 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."

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In the referenced letter, the Supply System reported that Post Accident Sampling System (PASS) vacuum pump PSR-P-702 (Suppression Pool Atmospheric Sample Return) was inoperable and, as a result, Post Accident Sampling Containment Atmospheric Radiation Monitor PSR-RI-704 was unable to perform its function as required by the Technical Specifications. Also in the letter, the Supply System provided the plans and schedule for restoring the system to operable status and committed to provide an evaluation of the failure mode of the vacuum pump.

On March 6, 1989 as part of the repair efforts associated with PSR-P-702, it was necessary to remove the entire PASS from service and, as a result, the other Technical Specification instrument in the system (PSR-RI-665: Post Accident Sampling Primary Coolant Radiation Monitor) was also not able to perform its required function.

In the event of an inoperable PASS during accident conditions, the alternate preplanned method for assessing core damage is Plant Procedure (PPM) 9.3.22, "Core Damage Evaluation." Included in this procedure are evaluations of water level history, installed radiation monitor indication and hydrogen content in the containment atmosphere.

During the disassembly of PSR-P-702, water was discovered in the pump above the reed valve, which prevented the pump from establishing a vacuum (subsequent bench testing revealed that there were no mechanical problems with the pump). The PASS procedure requires purging following pump operation to remove any moisture from the sample piping. However, due to a loose bulkhead fitting inside Sample Rack PSR-SR-46, there was insufficient flow available in the nitrogen purge supply line to adequately purge the water in the line. Therefore, the excess moisture had settled in the pump.

Regarding restoring the system to operable status, PSR-P-702 was replaced with a new pump and the bulkhead fitting repaired. Current plans are to have the system aligned, tested and returned to service by March 31, 1989.

Very truly yours,



C.M. Powers (M/D 927M)  
WNP-2 Plant Manager

cc: Mr. C.J. Bosted, NRC Site (M/D 901A)  
Ms. Dottie Sherman, ANI  
Mr. D.L. Williams, BPA (M/D 399)  
Document Control Desk, NRC

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