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 LEVINE,J.M. Arizona Public Service Co. (formerly Arizona Nuclear Power
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SUBJECT: Special Rept 2-RS-89-011:on 891204 radiation monitors
 inoperable caused by moisture in Monitor RU-141.

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NOTES:Standardized plant.

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Arizona Public Service Company
PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

JAMES M. LEVINE
VICE PRESIDENT
NUCLEAR PRODUCTION

192-00615-JML/TRB/RKR
January 8, 1990

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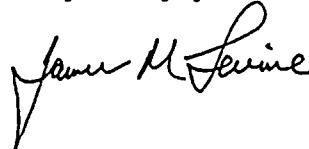
Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529 (License No. NPF-51)
Special Report 2-SR-89-011
File: 89-020-404

Attached please find Special Report 2-SR-89-011 prepared and submitted pursuant to Technical Specifications 3.3.3.8 ACTION 42.b and 6.9.2. This report discusses a radiation monitor inoperable for greater than 72 hours.

If you have any questions, please contact T. R. Bradish, Compliance Supervisor at (602) 393-3531.

Very truly yours,



JML/TRB/RKR/kj

Attachment

cc: W. F. Conway (all w/a)
J. B. Martin
E. E. Van Brunt
T. J. Polich
M. J. Davis
A. C. Gehr

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PALO VERDE NUCLEAR GENERATING STATION

Radiation Monitor Inoperable for Greater than 72 Hours

License No. NPF-51

Docket No. STN 50-529

Special Report No. 2-SR-89-011

This Special Report is submitted in accordance with Technical Specifications 3.3.3.8 ACTION 42.b and 6.9.2 to report an event in which the Condenser Evacuation System Low Range and High Range Radioactive Gaseous Effluent Monitors (RU-141 and RU-142) were inoperable for greater than 72 hours. The 72 hour limit was exceeded at approximately 0405 MST on December 7, 1989.

At approximately 1405 MST on December 4, 1989, Palo Verde Unit 2 was in Mode 1 (POWER OPERATION) at approximately 100 percent power when the Condenser Evacuation System Low Range and High Range Radioactive Gaseous Effluent Monitors were declared inoperable due to a low flow condition on monitor RU-141. The problem was discovered by control room personnel when they observed a continuous low flow alarm for RU-141. Pursuant to Technical Specification 3.3.3.8 ACTION 42.a the Preplanned Alternate Sampling Program was initiated to monitor the appropriate parameters.

Monitors RU-141 and RU-142 work as a pair with RU-141 being the low range monitor and RU-142 being the high range monitor. Normal configuration consists of RU-141 operating and RU-142 in standby. When RU-141 reaches a predetermined level, RU-142 starts and RU-141 goes to standby. Since RU-141 is inoperable, RU-142 must also be declared inoperable.

An authorized work document was issued to troubleshoot and rework or replace components as necessary to correct the low flow condition. The initial investigation revealed that the cause of the low flow condition was due to moisture in the monitor. A modification is being developed to correct this problem. The modification removes a moisture separator, relocates the temperature probe for the heat trace from the inlet to the outlet of the monitor, and adds additional heat trace to the monitor.

The modification is being tested in Unit 3. If the test demonstrates that the modification is effective, the modification will then be implemented in all three units. Unit 1 will implement the modification prior to startup from the current outage. Unit 2 will implement the modification prior to startup from the upcoming refueling outage.

