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SUBJECT: Special Rept 2-SR-89-008: on 891124, radiation monitoring unit inoperable for greater than 72 h.

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Arizona Public Service Company
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JAMES M. LEVINE
VICE PRESIDENT
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192-00609-JML/TDS/RKR
December 23, 1989

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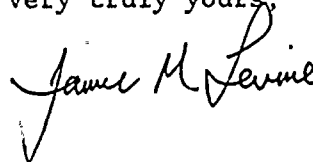
Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529 (License No. NPF-51)
Special Report 2-SR-89-008
File: 89-020-404

Attached please find Special Report 2-SR-89-008 prepared and submitted pursuant to Technical Specifications 3.3.3.8 ACTION 42.b and 6.9.2. This report discusses radiation monitors inoperable for greater than 72 hours.

If you have any questions, please contact T. D. Shriver, Compliance Manager at (602) 393-2521.

Very truly yours,

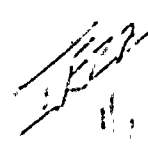


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Attachment

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PDR ADOCK 05000529
S PNU



PALO VERDE NUCLEAR GENERATING STATION UNIT 2

Radiation Monitoring Unit Inoperable Greater Than 72 Hours

License No. NPF-51

Docket No. STN 50-529

Special Report No. 2-SR-89-008

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 High Range Radioactive Gaseous Effluent Monitor (RU-142) and Plant Ventilation System High Range Radioactive Gaseous Effluent Monitor (RU-144) were inoperable for greater than 72 hours. The 72 hour limit was exceeded at approximately 0819 MST on November 27, 1989.

At approximately 0819 MST on November 24, 1989 Palo Verde Unit 2 was in Mode 4 (HOT SHUTDOWN) when Gaseous Effluent Monitors RU-142 and RU-144 were taken out of service and declared inoperable for implementation of a site modification. The site modification is being implemented to correct a previous event on August 12, 1989 described in Supplement 1 to Special Report 3-SR-89-006. The site modification bypasses a rectifier in the power supply circuit for the monitor flow transmitter. Radiation Monitors RU-142, RU-144, and RU-146 are designed to be powered by an AC or DC power source. APS uses a 24 VDC power supply for these monitors. There is a rectifier in the power supply circuit to convert AC supplied power to the 24 VDC used by the monitor. Troubleshooting of the monitor found that with a 24 VDC power supply input to the rectifier, the rectifier reduces the actual supply voltage to the monitors flow transmitter. This provides marginal operating voltage for this design and affects calibration of the flow transmitter.

Radiation Monitors RU-142 and RU-144 were returned to service at approximately 1320 MST on November 27, 1989 when the site modification and appropriate surveillance testing were completed.

The site modification was developed for monitors RU-142, RU-144, and RU-146. The site modification has been completed in Units 2 and 3. Unit 1 will complete the site modification prior to startup from their current outage.

