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SUBJECT: Special Rept 1-SR-88-007:on 880815,radiation monitoring unit inoperable for greater than 72 h. A-2

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192-00407-JGH/TDS/JEM
August 31, 1988

U. S. Nuclear Regulatory Commission
NRC Document Control Desk
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528 (License No. NPF-41)
Special Report 1-SR-88-007
File: 88-020-404

Attached please find Special Report 1-SR-88-007 prepared and submitted pursuant to Technical Specifications 3.3.3.8 ACTION 42b and 6.9.2. This report discusses a radiation monitor 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,

J. G. Haynes
Vice President
Nuclear Production

JGH/TDS/JEM/kj

Attachment

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IE22
1/1

PALO VERDE NUCLEAR GENERATING STATION

Radiation Monitoring Unit Inoperable for Greater Than 72 Hours

License No. NPF-41

Docket No. STN 50-528

Special Report No. 1-SR-88-007

This Special Report is being submitted pursuant to Technical Specification (TS) 3.3.3.8 ACTION 42b and Technical Specification 6.9.2 to report an event in which the Radioactive Gaseous Effluent Monitor (Plant Vent High Range Gaseous Activity Monitor RU-144) was inoperable for greater than 72 hours. The 72-hour limit for returning to operability was exceeded at 1123 MST on August 18, 1988. Pursuant to Technical Specification 3.3.3.8 ACTION 42a the Preplanned Alternate Sampling Program was initiated to monitor the Plant Vent System.

At 1123 MST on August 15, 1988, Palo Verde Unit 1 was in Mode 3 (HOT STANDBY) with the average Reactor Coolant System temperature at approximately 569 degrees F and Pressurizer Pressure at 2250 psia when RU-144 (Plant Vent System Radioactive Gaseous Effluent Monitor high range) was declared inoperable. Surveillance Test 75ST-9ZZ08 (Effluent Monitor Monthly Source Check) was being performed when the source check for channels 1 and 2 of RU-144 would not meet the established surveillance criteria.

An authorized work document was issued to troubleshoot and rework/replace as necessary to correct the problem which caused the source check to fail the surveillance test. Troubleshooting identified that the channel 1 source rod arm's slide cam was binding on the metal canister that surrounds the detector. The slide cam was reworked so it wound not bind. On the channel 2 detector a broken solenoid coil wire was identified, and the detector was replaced.

The new channel 2 detector was being calibrated in accordance with 36ST-9SQ10 "RU-143/RU-144 Calibration Test" when a faulty 24 volt power supply, was identified. The faulty power supply was replaced with a new power supply and the calibration test was completed satisfactorily. Appropriate surveillance testing was performed satisfactorily and RU-144 was returned to an operable status at 1345 MST on August 22, 1988. The monitor was inoperable for 7 days, 2 hours and 22 minutes.