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SUBJECT: Special Rept 2-SR-88-001:on 880311,radiation monitoring
 units inoperable for greater than 72 h.

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NOTES:Standardized plant.

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192-00359-JGH/TDS/JEM

April 5, 1988

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

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529 (License No. NPF-51)
Special Report 2-SR-88-001
File: 88-020-404

Attached please find Special Report 2-SR-88-001 prepared and submitted pursuant to Technical Specification 3.3.3.8 ACTION 42d and Technical Specification 6.9.2. This report discusses radiation monitoring units 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

cc: O. M. DeMichele (all w/a)
E. E. Van Brunt, Jr.
J. B. Martin
T. J. Polich
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A. C. Gehr
INPO Records Center

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PALO VERDE NUCLEAR GENERATING STATION

Radiation Monitoring Unit Inoperable for Greater Than 72 Hours

License No. NPF-51

Docket No. STN 50-529

Special Report No. 2-SR-88-001

This Special Report is being submitted pursuant to Technical Specification 3.3.3.8 ACTION 42b and Technical Specification 6.9.2 to report an event in which a 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 approximately 0845 MST on March 11, 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 0845 MST on March 8, 1988, Palo Verde Unit 2 was in Mode 6 (REFUELING) when the Plant Vent System Radioactive Gaseous Effluent Monitors, low range RU-143 and high range RU-144, were declared inoperable for the performance of Surveillance Test 36ST-9SQ04 (Radiation Monitoring Quarterly Functional Test). Monitors RU-143 and RU-144 work as a pair with RU-143 being the low range monitor and RU-144 being the high range monitor. Normal configuration consists of RU-143 operating and RU-144 in standby. When RU-143 reaches a predetermined point, RU-144 starts and RU-143 goes to standby. RU-144 is provided for tracking of postulated accident releases.

During performance of the surveillance test on RU-143 a High Voltage Failure alarm was received, followed by a Detector Failure alarm. The Detector Failure alarm was due to a loss of high voltage.

An authorized work document was issued to troubleshoot and rework/replace components to correct the high voltage failure. Troubleshooting identified a faulty high voltage board. The high voltage board was replaced with a new board and the voltage adjusted to the value from the previous calibration surveillance test.

During performance of the surveillance test on RU-144 the micro computer would not initialize itself; also there was a continuous purge command. The purge command sends a signal to position solenoid valves to purge the radiation monitoring unit. In addition there was a memory check failure.

An authorized work document was issued to troubleshoot and rework/replace components to correct the problem. Troubleshooting identified a faulty Central Processing Unit (CPU) board for the micro computer. The CPU board was replaced, and the micro computer would then initialize itself. A faulty isolation board was identified as causing the continuous purge command. The isolation board isolates the detector skid from the micro computer thereby preventing faults at the skid from damaging the computer.

A new isolation board was inserted to correct the problem. The memory check failure was caused by weak batteries and a new battery pack was inserted.

After satisfactory completion of appropriate surveillance tests RU-143 and RU-144 were declared operable at 1735 MST on March 23, 1988. The monitors were out of service for approximately 15 days and 9 hours.

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Distribution Sheet

12/15/99

see Rpt.

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Subject:

Transmittal forwarding 990904 meeting handout materials regarding lincee plans to request NRC approval of power uprate for Palo Verde 2 th at will follow the planned steam generator replacement for unit for immediate placement in public domain.

Body:

PDR ADOCK 05000529 P

Docket: 05000529, Notes: Standardized plant.

TRANSMITTAL OF MEETING HANDOUT MATERIALS FOR
IMMEDIATE PLACEMENT IN THE PUBLIC DOMAIN

*This form is to be filled out (typed or hand-printed) by the person who announced the meeting (i.e., the person who issued the meeting notice). The completed form, and the attached copy of meeting handout materials, will be sent to the Document Control Desk on the same day of the meeting; under no circumstances will this be done later than the working day after the meeting.
Do not include proprietary materials.*

DATE OF MEETING

12/15/1999

The attached document(s), which was/were handed out in this meeting, is/are to be placed in the public domain as soon as possible. The minutes of the meeting will be issued in the near future. Following are administrative details regarding this meeting:

Docket Number(s)

50-529

Plant/Facility Name

Palo Verde Nuclear Generating Station, Unit 2

TAC Number(s) (if available)

N/A

Reference Meeting Notice

September 4, 1999 meeting notice

Purpose of Meeting
(copy from meeting notice)

To discuss the licensee's plans to request NRC approval of
a power uprate for Palo Verde 2 that will follow the planned
steam generator replacement for this unit.

NAME OF PERSON WHO ISSUED MEETING NOTICE

Mel Fields

TITLE

Project Manager

OFFICE

NRR

DIVISION

DRPM

BRANCH

PDIV-2

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