



MARIA L. LACAL
Senior Vice President
Nuclear Regulatory and Oversight

**Palo Verde
Nuclear Generating Station**
P.O. Box 52034
Phoenix, AZ 85072
Mail Station 7605
Tel 623 393 6491

102-07910-MLL/SPD
April 26, 2019

ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

Dear Sirs:

Subject: **Palo Verde Nuclear Generating Station (PVNGS) Unit 1
Docket No. STN 50-528 / License No. NPF 51
Special Report 1-SR-2019-001-00**

Enclosed please find Special Report 1-SR-2019-001-00, which is prepared and submitted pursuant to PVNGS Offsite Dose Calculation Manual requirements. This report discusses the nonfunctionality of a fuel building ventilation system high range radioactive gaseous effluent monitor for more than 7 days.

Copies of this Special Report are being forwarded to the Nuclear Regulatory Commission (NRC), NRC Region IV, and the Senior Resident Inspector.

Arizona Public Service Company makes no commitments in this letter. If you have questions regarding this submittal, please contact Matthew Kura, Department Leader, Nuclear Regulatory Affairs, at (623) 393-5379.

Sincerely,

A handwritten signature in blue ink that reads "Maria L. Lecal".

MLL/SPD

Enclosure:

Special Report 1-SR-2019-001-00, Fuel Building Ventilation System High Range
Radioactive Gaseous Effluent Monitor Nonfunctional

cc: S. A. Morris NRC Region IV Regional Administrator
S. P. Lingam NRC NRR Project Manager for PVNGS
C. A. Peabody NRC Senior Resident Inspector PVNGS

Enclosure

Special Report 1-SR-2019-001-00

**Fuel Building Ventilation System High Range Radioactive Gaseous
Effluent Monitor Nonfunctional**

Palo Verde Nuclear Generating Station

Special Report 1-SR-2019-001-00

Fuel Building Ventilation System High Range Radioactive Gaseous Effluent Monitor Nonfunctional Docket No. STN 50-528, Unit 1

Reporting Requirement:

The Palo Verde Nuclear Generating Station Offsite Dose Calculation Manual revision 27 (ODCM) includes functionality requirements for radioactive gaseous effluent monitoring instrumentation. Action 42 of Table 2-1, specifies the following: "With the number of channels FUNCTIONAL less than required by the Minimum Channels FUNCTIONAL requirement initiate the Preplanned Alternate Sampling Program to monitor the appropriate parameter(s) within 72 hours, and:

- a. Either restore the nonfunctional channel(s) to FUNCTIONAL status within 7 days of the event, or
- b. Prepare and submit a Special Report to the Commission within 14 days following the event outlining the action(s) taken, the cause of the nonfunctionality, and the plans and schedule for restoring the system to FUNCTIONAL status."

Initial Conditions:

At 0427 Mountain Standard Time (MST) on April 13, 2019, Unit 1 was in a refueling outage. The fuel building ventilation system high range radioactive gaseous effluent monitor (RU-146) was declared nonfunctional when its 120 VAC Class 1E power supply was removed from service in support of a unit modification.

The monitor RU-146 was not restored to FUNCTIONAL status within 7 days.

Actions Taken:

The Preplanned Alternate Sampling Program was initiated to "monitor appropriate parameters" pursuant to ODCM Requirement ACTION 42 of Table 2-1 on April 12, 2019, at 0840 MST in anticipation of the planned 120 VAC Class 1E power supply outage. Portable area monitors were placed on the roof to measure dose rates in the event of an accident. The parameters being monitored were post accident high range conditions, specifically dose rates due to gases. On April 21, 2019, at 1314 MST, RU-146 was declared FUNCTIONAL after restoration of power and completion of the channel check surveillance test.

Cause of the Nonfunctionality:

There was no monitor malfunction associated with the nonfunctionality of RU-146. The cause for exceeding the 7 days allowed by ODCM Action 42 of Table 2-1 was removal of its associated 120 VAC Class 1E power.

Plans and Schedule for Restoring the System to FUNCTIONAL Status:

The monitor was restored to a functional status as described above.