



ODCM 2.1

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

102-07250-MLL/GRC/SPD
April 28, 2016

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 41
Special Report 1-SR-2016-001-00**

Enclosed please find Special Report 1-SR-2016-001-00, which is prepared and submitted pursuant to PVNGS Offsite Dose Calculation Manual (ODCM) 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 Mark McGhee, Nuclear Regulatory Affairs Department Leader, at (623) 393-4972.

Sincerely,

MLL/GRC/SPD

Enclosure:

Special Report 1-SR-2016-001-00, Fuel Building Ventilation System High Range
Radioactive Gaseous Effluent Monitor Nonfunctional

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

NOT PART OF TRANSMITTAL
Do Not Send With Original bcc's or cc's
INTERNAL USE ONLY

Original:

Via EIE or Fed Ex:
ATTN: Document Control Desk
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852

cc:

Hard Copy:

Mr. M. L. Dapas
Regional Administrator
U.S. Nuclear Regulatory Commission, Region IV
1600 E Lamar Blvd
Arlington, TX 76011-4511

Mr. S. P. Lingam
U.S. Nuclear Regulatory Commission
M/S 8 H4A
11555 Rockville Pike
Rockville, MD 20852

Ms. M. M. Watford
U.S. Nuclear Regulatory Commission
M/S 0-8B1A
11555 Rockville Pike
Rockville, MD 20852

cc:

Electronic Copy

Siva.Lingam@nrc.gov
Margaret.Watford@nrc.gov
Charles.Peabody@nrc.gov

FOR PVNGS INTERNAL USE ONLY

bcc:

Jaramillo, T. M.
Green, M. G.
Fallon, M. R.
Dornseif, S.
Cameron, G. R.
DiLorenzo, M. D.
McGhee, M. A.
Weber, T. N.
Andrews, G. W.
Lange, R.
Moeller, C.
Paramithas, P.
Bence, D. R.
McSparran, P. A.
Kharri, C.
McLaughlin, M. E.
Lacal, M. L.
Cadogan, J. J.
Mims, D. C.
Bement, R. S.
Edington, R. K.

Arter, C. L. [for the OSRC]
PVOC (Anissa Fogel)
Baum, S. A. [Legal]
Mellegers, J. L. [Legal]
PVNGS Owner Services
STARS Distribution
CERTREC (pvupdate@certrec.com)

SOURCE DOCUMENTS

1. CR 16-06672
2. CR 16-06999
3. ODCM Revision 27
4. CAD 1-16-024

VERIFICATION OF ACCURACY

Document Preparer: I have prepared the attached document and validated selected statements of fact to the identified source and Licensing Basis documents (QV&V).

Dornseif, Sean (Z10769) Digitally signed by Dornseif, Sean (Z10769)
DN: cn=Dornseif, Sean (Z10769)
Date: 2016.04.27 12:35:12 -07'00' /Sean Dornseif/

Signature Printed Date

RP Technical Reviewer: I have reviewed and verified that the technical information has been accurately translated and correctly described.

Routolo, Robert Digitally signed by Routolo, Robert
M(Z99739)
DN: cn=Routolo, Robert M(Z99739)
Reason: I have reviewed this document
Date: 2016.04.27 12:45:50 -07'00' /Bob Routolo/

Signature Printed Date

RA Peer Reviewer: I have reviewed the attached document for completeness, QV&V adequacy and submittal quality.

Oreshack, Fara Digitally signed by Oreshack, Fara J(Z18189)
DN: cn=Oreshack, Fara J(Z18189)
Reason: I have reviewed this document
Date: 2016.04.27 12:38:02 -07'00' /Fara Oreshack/

Signature Printed Date

Other Licensing Document Changes: Check NO or List LDCR numbers

UFSAR	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> Yes	LDCR _____.
TS Bases	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> Yes	LDCR _____.
TRM	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> Yes	LDCR _____.
OTHER	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> Yes	Tracking Number _____.

REGULATORY AFFAIRS DEPARTMENT

Document Authorization Routing Slip

Do Not Send With Original or cc's

Date Prepared: 04/27/2016

FileName/Path: <H:\NRA\Compliance Group\Special Report\Working\U1 RU-146>

SPECIAL INSTRUCTIONS:

BRIEF DESCRIPTION:

Special Report 1-2016-001-00 Unit 1 RU-146

☒ Due To Agency By: 04/29/2016

☐ Post-mark By

Hard Due Date: Yes ☒ No ☐

To Final Approver

Target Date:

Actual Date:

Signature Date:

ROUTE TO INDIVIDUAL	STA. NO.	SIGNATURE REQUIRED IF CHECKED	REVIEW	APPROVAL	DATE REVIEWED/ APPROVED	COMMENTS
1. E. Pittman		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
2. B. Routolo		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Routolo, Robert M(Z99739)	
3. G. Cameron		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
4. G. Andrews		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
5. M. Lacal		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
6.						
7.						
8.						
9.						
10.						

RETURN TO:

Anissa Fogel

STA:

7636

FOR QUESTIONS::

Sean Dornseif

EXT:

6695

Enclosure

Special Report 1-SR-2016-001-00

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

Palo Verde Nuclear Generating Station

Special Report 1-SR-2016-001-00

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: “ when the number of FUNCTIONAL High Range Monitors is less than required by the Minimum Channels FUNCTIONAL requirement, the station will 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 0235 Mountain Standard Time (MST) on April 15, 2016, Unit 1 was in a refueling outage. The fuel building ventilation system high range radioactive gaseous effluent monitor (RU-146) was declared nonfunctional due to its 120 VAC Class 1E power supply being removed from service in support of a unit modification.

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 17, 2016, at 1425 MST. On April 23, 2016, at 1543 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 equipment 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 due to the schedule being extended to address issues with the unit modification designed to improve the reliability of 120 VAC inverters. The cumulative effect of the maintenance performed was RU-146 being out of service for greater than 7 days.

Palo Verde Nuclear Generating Station

Special Report 1-SR-2016-001-00

Plans and Schedule for Restoring the System to FUNCTIONAL Status:

On April 23, 2016, at 1543 MST, RU-146 was declared FUNCTIONAL following completion of the modification work and after completion of the channel check surveillance test.