



102-08048-MDD/MSC  
January 24, 2020

**Palo Verde  
Nuclear Generating Station**  
P.O. Box 52034  
Phoenix, AZ 85072  
Mail Station 7636  
**Tel:** (623) 393-3495

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

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station  
Unit 3, Docket No. STN 50-530  
Fourth 10-Year Interval, First Period:  
Owner's Activity Report Number U3R21**

Pursuant to 10 CFR 50.55a and in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code Case N-532-5, Arizona Public Service Company hereby submits the Owner's Activity Report (Form OAR-1) for Unit 3 refueling outage 21 (U3R21). The outage ended on November 21, 2019.

No commitments are being made to the NRC by this letter. Should you have any questions concerning the content of this letter, please contact Matthew S. Cox, Licensing Section Leader, at (623) 393-5753.

Sincerely,

A handwritten signature in dark ink, appearing to read "Michael D. DiLorenzo", is written in a cursive style.

Michael D. DiLorenzo, Department Leader  
Nuclear Regulatory Affairs - Licensing

MDD/MSC/mg

Enclosure: Unit 3 Twenty-First Refueling Outage Owner's Activity Report, Report U3R21

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 for PVNGS

**ENCLOSURE**

**Unit 3**

**Twenty-First Refueling Outage Owner's Activity  
Report**

**Report U3R21**

## FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: 3R21

Plant: Palo Verde Nuclear Generating Station, 5801 S. Wintersburg Road, Tonopah, Arizona 85354-7529

Unit No.: 3 Commercial service date: Jan 8, 1988 Refueling Outage No.: 21  
(if applicable)

Current inspection interval IWB, IWC, IWD, IWF = 4th Interval, IWE = 3rd Interval, IWL = 2nd Interval  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, other)

Current inspection period IWB, IWC, IWD, IWF = 1st Period IWE = 1st Period, IWL = 2nd Period  
(1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>)

Edition and Addenda of Section XI applicable to the inspection plans 2013 Edition, (IWE, IWL = 2007 Ed., 2008 Ad.)

Date and revision of inspection plans IWB/IWC/IWD/IWF = 10/17/19, SPT = 6/21/18, IWE = 10/3/18, IWL = 8/8/18

Edition and Addenda of Section XI applicable to repair/replacement activities,  
if different than the inspection plans 2013 Edition

Code Cases used for inspection and evaluation:  
N-532-5, N-722-1, N-729-4, N-770-2, N-716-1, N-845

(if applicable)

### CERTIFICATE OF CONFORMANCE

I certify that (a) the statements made in this report are correct; (b) the examinations and tests meet the Inspection Plan as required by the ASME Code, Section XI; and (c) the repair/replacement activities and evaluations supporting the completion of U3R21 conform to the requirements of Section XI.  
(refueling outage number)

**Toone, Spencer**  
**(Z07074)**  
Signed \_\_\_\_\_  
Digitally signed by Toone, Spencer (Z07074)  
DN: cn=Toone, Spencer (Z07074)  
Date: 2020.01.15 10:51:23 -07'00'

Date: \_\_\_\_\_

### CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by \_\_\_\_\_ of Hartford, Connecticut have inspected the items described in this Owner's Activity Report, and state that, to the best of my knowledge and belief, the Owner has performed all activities represented by this report in accordance with the requirements of Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the repair/replacement activities and evaluation described in this report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

\* The Hartford Steam Boiler Inspection and Insurance Company

**Hogstrom, Robert (YH2450)**  
Digitally signed by Hogstrom, Robert (YH2450)  
DN: cn=Hogstrom, Robert (YH2450)  
Date: 2020.01.15 11:21:27 -07'00'  
(Inspector's Signature)

Commissions N.B. 9685 "C,I,N,R"  
National Board, State, Province, and Endorsements

Date: \_\_\_\_\_

**Table 1**

Items with Flaws or Relevant Conditions That Required Evaluation for Continued Service

Examination Category and Item Number	Item Description	Evaluation Description
None	None	None

## Table 2

Abstract of Repair/Replacement Activities Required for Continued Service

<b>Code Class</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
2	3PSIAV836	Repair failed 1-inch socket weld upstream of SI valve 836.	10/21/2019	5179053-0
3	3PSPBL-032A, 104, 105, 106	Weld repair base metal of SP pipe spool #14 of line 32, spool #3 of line 104, spool #2 of line 105, and spools #1 and #4 of line 106.	03/22/2019	5112517-1
3	3MEWBE01	Weld repair base metal of EW heat exchanger where localized corrosion is present due to coating failures.	10/23/2019	5027401-0
3	3PSPBL107	Replace SP pipe spool #1 due to internal areas of localized corrosion.	03/22/2019	3312759-0
3	3MDGBE-01A, 01B	Swap DG Intercooler cross-connect spools with spares to facilitate repair/refurbishment.	03/22/2019	4777053-0
3	3PSPAL099	Replace SP pipe spools #1 and #2 due to internal areas of localized corrosion.	03/07/2019	4866961-0
3	3PSPAL065A	Replace SP pipe spool #1 due to internal areas of localized corrosion.	03/07/2019	4867975-0
3	3PSPAL080B	Replace SP pipe spool #15 due to internal areas of localized corrosion.	03/07/2019	4867976-0
3	3PSPBL049A	Replace SP pipe spool #1 due to internal areas of localized corrosion.	03/22/2019	4875519-0
3	3MDGAE01A	Swap DG Intercooler cross-connect spools #6 and #8 with spares to facilitate repair/refurbishment.	03/08/2019	4953872-0



**Table 2**

(continued from previous page)

<b>Code Class</b>	<b>Item Description</b>	<b>Description of Work</b>	<b>Date Completed</b>	<b>Repair/Replacement Plan Number</b>
3	3MDGAE01B	Swap DG Intercooler cross-connect spools #5 and #7 with spares to facilitate repair/refurbishment.	03/08/2019	4953873-0
3	3MDGAE-01A, 01B, 04, 05	Weld repair base metal of DG heat exchangers where localized corrosion is present due to coating failures.	03/07/2019	4953908-0
3	3MDGBE-01A, 01B, 04, 05	Weld repair base metal of DG heat exchangers where localized corrosion is present due to coating failures.	03/22/2019	4960125-0