



102-08897-MDD/CJS  
January 24, 2025

**Palo Verde  
Nuclear Generating Station**  
P.O. Box 52034  
Phoenix, AZ 85072  
Mail Station 7636  
**Tel:** (623) 393-5753

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

**Subject: Palo Verde Nuclear Generating Station Unit 2  
Docket No. STN 50-529  
Fourth 10-Year Interval, Second Period  
Owner's Activity Report Number 2R25**

Pursuant to Title 10 of the Code of Federal Regulations 50.55a and in accordance with the American Society of Mechanical Engineers Boiler and Pressure Vessel Code Case N-532-5, *Repair/Replacement Activity Documentation Requirements and Inservice Inspection Summary Report Preparation and Submission Section XI, Division 1*, Arizona Public Service Company hereby submits the Owner's Activity Report (Form OAR-1) for Unit 2 refueling outage 25 (2R25). The outage ended on November 8, 2024.

No commitments are being made to the NRC by this letter. Should you need further information regarding this submittal, please contact me at (623) 393-3495.

Sincerely,

**Dilorenzo, Michael**  
**D(Z99838)**

Digitally signed by Dilorenzo,  
Michael D(Z99838)  
Date: 2025.01.24 17:24:23 -07'00'

Michael D. Dilorenzo  
Department Leader Nuclear Regulatory Affairs - Licensing

MDD/CJS/cr

Enclosure: Unit 2 Twenty-Fifth Refueling Outage Owner's Activity Report, Report 2R25

cc: J. D. Monninger      NRC Region IV Regional Administrator  
W. T. Orders            NRC NRR Project Manager for PVNGS  
L. N. Merker             NRC Senior Resident Inspector for PVNGS

**ENCLOSURE**

**Unit 2**

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

**Report 2R25**

# FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: 2R25

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

Unit No.: 2 Commercial service date: Sep 19, 1986 Refueling Outage No.: 25  
(if applicable)

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

Current inspection period IWB, IWC, IWD, IWF = 2nd / IWE = 3rd / IWL = 1st / S.P.T. = 2nd  
(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 = 2007 Ed., '08 Ad.)

Date and revision of inspection plans ISI=10/3/2024 R2, SPT=6/21/18 R0, IWE=10/3/18 R0, IWL=6/21/22 R0

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-716-1, N-722-1, N-729-6, N-770-7, N-845, N-885-1  
(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 U2R25 conform to the requirements of Section XI.  
(refueling outage number)

**Stanistreet, Eric**  
**(Z18113)**

Digitally signed by Stanistreet,  
Eric (Z18113)  
Date: 2025.01.10 12:24:31 -07'00'

Signed \_\_\_\_\_

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.

**Hogstrom,**  
**Robert (YH2450)**

Digitally signed by  
Hogstrom, Robert (YH2450)  
Date: 2025.01.10 13:24:52  
-07'00'

\* The Hartford Steam Boiler Inspection and Insurance Co.

\_\_\_\_\_  
(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 2R25 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
3	2PSPAL065A - S001, S007	DG CLG WTR HT EXCH DGAE04 TO SPRAY POND TRAIN A Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2PSPAL080B - S015	ESP PP SPAP01 TO DG CLG WTR HT EXCH DGA-E01 Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2PSPAL098 - S003, S004	ESS SPRAY POND P SPAP01TO JACKET WTR CLR HT EXCH Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2PSPAL100 - S001	JACKET WTR CLR HT EXCH TOSPRAY POND TRAIN A Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2PSPAL099 - S001, S002	ESS SPRAY POND P SPAP01TO AIR AFTERCLRS HT EXCH Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2PSPAL101	AIR AFTERCORS HT EXCH TOSPRAY POND TRAIN A Base Metal Repair of Piping	9/29/2023	5454708 Task 6
3	2MDGAE01A	EDG INTERCOOLER A Base Metal Repair of corroded areas	9/30/2023	5454713 Task 0
3	2MDGAE04	EDG LUBE OIL COOLER Base Metal Repair of corroded areas	9/30/2023	5454713 Task 0
3	2MDGAE05	EDG JACKET WATER COOLER Base Metal Repair of corroded areas	9/30/2023	5454713 Task 0
3	2MDGAE01B	EDG INTERCOOLER B Base Metal Repair of corroded areas	9/30/2023	5454713 Task 0
3	2MDGAE01A/B	EDG INTERCOOLER CROSS CONNECT SPOOLS (5, 6, 7, and 8) Weld repair of corroded areas	9/30/2023	5454713 Task 0
3	2MDGBE04	EDG LUBE OIL COOLER Base Metal Repair of corroded areas	6/14/2024	5519479 Task 0
3	2MDGBE05	EDG JACKET WATER COOLER Base Metal Repair of corroded areas	6/14/2024	5519479 Task 0

**Table 2**

Abstract of 2R25 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
3	2MDGBE01B	EDG INTERCOOLER B Base Metal Repair of corroded areas	6/14/2024	5519479 Task 0
3	2MDGBE01A	EDG INTERCOOLER A Base Metal Repair of corroded areas	6/14/2024	5519479 Task 0
3	2MDGBE01A/B	EDG INTERCOOLER CROSS CONNECT SPOOLS (5, 6, 7, and 8) Base Metal Repair of corroded areas	6/14/2024	5519479 Task 0
3	2PSPBL032A	ESS SPRAY POND SPBP01 TO JACKET WATER COOLER SPOOL 14,15 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2PSPBL049A	DG CLG WTR HT EXCH DGAE01 TO SPRAY POND TRAIN B SPOOL 1 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2PSPBL104	ESS SPRAY POND P SPBP01 TO LUBE OIL CLR DGBE04 SPOOL 3 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2PSPBL105	ESS SPRAY POND P SPBP01 TO AIR AFTERCLRS HT EXCH SPOOL 1,2 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2PSPBL106	LUBE OIL CLR DGBE04 TO SPRAY POND TRAIN B SPOOL 1,4 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2PSPBL107	AIR AFTERCLRS HT EXCH TOSPRAY POND TRAIN B SPOOL 1 Base Metal Repair pipe spools	6/14/2024	5519474 Task 6
3	2MEWBE01	ECWS HT EXCH B Perform base material repairs to the heat exchanger as directed by engineering inspection maps provided.	10/26/2024	5547898 Task 1
2	2SG045H011	STEAM GEN 2 MAIN STEAM LN2 CONSTANT SPRING HANGER Replace constant spring support	11/4/2024	5664616 Task 0
2	2PSGEL005	Fabricate pipe and fittings to replace a portion of line SGE-L005 spool S-011 due to Flow Accelerated Corrosion.	11/4/2024	5473030 Task 1

**Table 2**

Abstract of 2R25 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
2	2PSGEV653	S/G #2 DOWNCOMER FEED WATER HEADER CHECK VALVE Perform BMR to ID of weld end to meet fit up criteria for SGE-011 Spool S-003	11/7/2024	555570 Task 0
2	2PSGEL005	Install pipe and fittings to replace a portion of line SGE-L005 spool S-011 and S-012 due to Flow Accelerated Corrosion.	11/7/2024	5473030 Task 0
2	2PSGEV653	Perform BMR to ID of weld end to meet fit up criteria for SGE-011 Spool S-003	11/7/2024	555570 Task 0
2	2PSGEL011	Replace SGE-L011 Spool S-003 between SGE-V653 and penetration SGE-U12 due to FAC using vendor supplied materials.	11/7/2024	555570 Task 0