



102-08231-MDD/MSC  
February 16, 2021

**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 1, Docket No. STN 50-528  
Fourth 10-Year Interval, First Period  
Owner's Activity Report Number 1R22**

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, *Alternative Requirements to Repair and Replacement Documentation Requirements and Inservice Summary Report Preparation and Submission as Required by IWA-4000 and IWA-6000, Section XI, Division 1*, Arizona Public Service Company hereby submits the Owner's Activity Report (Form OAR-1) for Unit 1 refueling outage 22 (1R22). The outage ended on December 3, 2020.

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,

Dilorenzo, Michael  
D(Z99838)

Digitally signed by Dilorenzo, Michael D(Z99838)  
DN: cn=Dilorenzo, Michael D(Z99838)  
Reason: approved  
Date: 2021.02.16 15:18:02 -07'00'

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

MDD/MSC/mg

Enclosure: Unit 1 Twenty-Second Refueling Outage Owner's Activity Report, Report 1R22

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 1**

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

**Report 1R22**

**FORM OAR-1 OWNER'S ACTIVITY REPORT**

Report Number: 1R22

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

Unit No.: 1 Commercial service date: Jan 28, 1986 Refueling Outage No.: 22  
(if applicable)

Current inspection interval IWB, IWC, IWD, IWF = 4th / IWE = 3rd / IWL = 2nd / 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 = 1st / IWE = 1st / IWL = 2nd / S.P.T. = 1st  
(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 and IWL=2007 Ed., '08 Ad.)

Date and revision of inspection plans ISI=12/05/19 R0, SPT=6/21/18 R0, IWE=10/3/18 R0, IWL=8/8/18 R4

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  
(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 U1R22 conform to the requirements of Section XI.  
(refueling outage number)

Signed **Folley, Roy**  
**C(Z07131)**  
Digitally signed by Folley, Roy  
C(Z07131)  
DN: cn=Folley, Roy C(Z07131)  
Date: 2021.02.03 15:01:38 -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.

**Hogstrom,**  
**Robert (YH2450)**  
Digitally signed by Hogstrom, Robert (YH2450)  
DN: cn=Hogstrom, Robert (YH2450)  
Date: 2021.02.03 15:08:11 -07'00'

(Inspector's Signature)

\* The Hartford Steam Boiler Inspection and Insurance Company

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

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan number
3	1MPCBE01	Open and Inspect Pool Cooling Heat Exchanger. Plug Tubes as Needed. Welded Plugs	6/14/2020	4751397-0
3	1PSPAL098	Install New Spool On Line 2 Of 1PSPAL098. New Spool Will Not Include The Existing Small Bore Nozzle.	3/7/2020	4902102-0
3	1PSPAL100	Replace Spool 2 With New Spool.	3/7/2020	4902103-0
3	1PSPBL049A	Install Spool 2.	9/22/2020	4902104-0
3	1PSPBL032A	Install Spool 13	9/22/2020	4902105-0
3	1PSPBL079	Perform Weld Buildup Of Corroded Areas Due To Failure Of The Internal Coating	11/2/2020	4940090-1
3	1MDGAE01A	Replace DG Intercooler Cross Connect Spools 6 and 8	3/7/2020	5074224-0
3	1MDGAY19	Weld Repair Expansion Joint Carbon Steel Flange Surfaces	3/10/2020	5074224-9
3	1MDGAY24	Weld Repair Expansion Joint Carbon Steel Flange Surfaces	3/10/2020	5074224-9
3	1MDGAE01B	Replace DG Intercooler Cross Connect Spools 5 and 7	3/7/2020	5074225-0
3	1PSPAL098 SPOOL 4	Base Metal Repair of Piping	3/7/2020	5074258-2
3	1PSPAL099 SPOOL 2	Weld Repair of Piping	3/7/2020	5074258-2
3	1PSPAL100 SPOOL 1	Base Metal Repair of Piping	3/7/2020	5074258-2
3	1PSPAL065 SPOOL 7	Weld Repair of Piping	3/7/2020	5074258-2
3	1PSPAL080 SPOOL 15	Weld Repair of Pipe Spools	3/7/2020	5074258-2
3	1MDGAE01A, 01B, 04, 05	Weld Repair of Corroded Areas	3/7/2020	5074259-0
3	1MDGBE01A, 01B, 04, 05	Weld Repair of Corroded Areas	9/25/2019	5145509-0
3	1MDGBE01A 1MDGBY19	Replace DG Intercooler Cross Connect Spools 6 and 8 and remove and reinstall expansion joint repaired under task 3 of this work order	9/25/2019	5145457-0
3	1MDGBE01B	Replace DG Intercooler Cross Connect Spools 5 and 7	9/25/2020	5145458-0
3	1PSPBL107	Perform Base Metal Repair	9/25/2020	5145508-4
3	1MEWAE01	Weld repair on Heat Exchanger Inlet Channel Cover (West End)	11/3/2020	5151583-4
3	1MEWAE01	Weld repair on Heat Exchanger 26" Channel Outlet Nozzle	11/3/2020	5151583-4
2	1SI106H008	Replace Snubber Due To Failed Drag Test	8/24/2020	5157821-0

**Table 2**

Abstract of Repair/Replacement Activities Required for Continued Service

2	1PSIAL100/1SI100H002	Repair Weld Between Hanger Lug and Pipe, Due to Indication Found During Inspection Note: Weld was blended only. PT SAT.	11/8/2020	5287070-0
3	1PSGAV044	Replace Installed 6" Check Valve With Substitute Anchor Darling Model W9023213	11/30/2020	5289521-0