



102-08832-MDD/CJS
July 11, 2024

**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

**Subject: Palo Verde Nuclear Generating Station Unit 3
Docket No. STN 50-530
Fourth 10-Year Interval, Second Period
Owner's Activity Report Number 3R24**

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 3 refueling outage 24 (3R24). The outage ended on May 12, 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: 2024.07.11 09:48:14
-07'00'

Michael D. DiLorenzo
Department Leader Nuclear Regulatory Affairs - Licensing

MDD/CJS/cr

Enclosure: Unit 3 Twenty-Fourth Refueling Outage Owner's Activity Report, Report 3R24

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

ENCLOSURE

Unit 3

Twenty-Fourth Refueling Outage Owner's Activity Report

Report 3R24

FORM OAR-1 OWNER'S ACTIVITY REPORT

Report Number: 3R24

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

Unit No.: 3 Commercial service date: Jan 8, 1988 Refueling Outage No.: 24
(if applicable)

Current inspection interval IWB,IWC,IWD,IWF = 4th ; IWE = 3rd ; IWL = 3rd ; SPT = 4th
(1st, 2nd, 3rd, 4th, other)

Current inspection period IWB,IWC,IWD,IWF = 2nd ; IWE = 2nd ; IWL = 1st ; SPT = 2nd
(1st, 2nd, 3rd)

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 = 3/6/24 R2; IWE = 10/3/18 R0; IWL = 6/17/22 R0; SPT = 6/21/18 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-770-5, N-845, N-885
(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 U3R24 conform to the requirements of Section XI.
(refueling outage number)

Signed Folley, Roy
C(Z07131)
Digitally signed by Folley, Roy
C(Z07131)
Date: 2024.07.03 11:18:37 -07'00'

Date: Jul 3, 2024

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: 2024.07.03 11:32:40
-07'00'

* The Hartford Steam Boiler Inspection and Insurance Company

Commissions N.B. 9685 "A, N, I, C" AZ 264

(Inspector's Signature)

National Board, State, Province, and Endorsements

Date: Jul 3, 2024

Table 1

3R24 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 3R24 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
1	3PCHNV813	SEAL INJECTION TO RCP 2B MANUAL ISOLATION VALVE Replace valve due to degraded stem. New valve will be installed with half couplings welded to the valve body	4/30/2024	5333988-0
1	3PCHNV813	SEAL INJECTION TO RCP 2B MANUAL ISOLATION VALVE Socket weld half couplings to valve to be installed by task 0 per DEC 18-07684-002	4/16/2024	5333988-3
1	3MRCEE01A	REPLACEMENT STEAM GENERATOR Install Westinghouse mechanical plugs in SG 3MRCEE01A "HOT" leg	4/26/2024	5340281-0
1	3MRCEE01A	REPLACEMENT STEAM GENERATOR Install Westinghouse mechanical plugs in SG 3MRCEE01A "COLD" leg	4/26/2024	5340282-0
1	3MRCEE01B	REPLACEMENT STEAM GENERATOR Install Westinghouse mechanical plugs in SG 3MRCEE01B "HOT" leg	4/26/2024	5340283-0
1	3MRCEE01B	REPLACEMENT STEAM GENERATOR Install Westinghouse mechanical plugs in SG 3MRCEE01B "COLD" leg	4/26/2024	5340284-0
1	3JRCEPSV0200	PRESSURIZER SAFETY RELIEF VALVE Replace the pressurizer relief valve with a reconditioned spare.	5/09/2024	5502249-0
1	3JRCEPSV0201	PRESSURIZER SAFETY RELIEF VALVE Replace the pressurizer relief valve with a reconditioned spare.	5/09/2024	5502250-0
1	3JRCEPSV0202	PRESSURIZER SAFETY RELIEF VALVE Replace the pressurizer relief valve with a reconditioned spare.	5/09/2024	5502251-0
1	3JRCEPSV0203	PRESSURIZER SAFETY RELIEF VALVE Replace the pressurizer relief valve with a reconditioned spare.	5/09/2024	5502252-0
1	3PRCEV235	RC LOOP "1B" DRAIN VALVE TO RDT RCE-L058 Spool N-00B will be removed from RCE-V235 and weld replaced with Vendor supplied materials.	5/10/2024	5618251-0
1	3PRCEV335	RC LOOP "1B" DRAIN VALVE TO RDT RCE-V335 will be removed and weld replaced with vendor supplied material.	5/10/2024	5618251-0

Table 2

Abstract of 3R24 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
1	3PRCEL058	STEAM GEN 1 RCEE01A DISCHDR TO REACT DRAIN TK Replace RCE-L058 Spool N-00B with vendor supplied material.	5/10/2024	5618251-0
2	3JSGEPSV0558	S/G #2 LINE 2 SAFETY RELIEF VALVE Replacement of main steam safety valve with reconditioned and tested spare.	5/10/2024	5502165-0
2	3SG203H014	SNUBBER SUPPORT AT TOP OF AIR CYLINDER ON 3JSGAUV0175. PM for replacement of air cylinder. Existing snubber support bracket to be transferred to the replacement air cylinder.	5/10/2024	5502596-1
2	3SG203H013	SNUBBER SUPPORT AT TOP OF AIR CYLINDER ON 3JSGAUV0135. PM for replacement of air cylinder. Existing snubber support bracket to be transferred to the replacement air cylinder.	5/10/2024	5502597-1
2	3JSGEPSV0579	S/G #1 LINE 2 SAFETY RELIEF VALVE Replacement of main steam safety valve with reconditioned and tested spare.	5/10/2024	5502165-0
2	3JSIEPSV0231	SIT "1A" PRESSURE RELIEF VALVE Remove and test PSV, rework if required.	5/08/2024	5502802-0
2	3PSIEL230	SIT 1B To Safety Valve 3JSIEPSV0241 Modify SIE-L230 Spool N-00B per DEC 22-07965-018 and EDC 2024-00129 using vendor supplied materials.	5/08/2024	5598241-0
2	3SG042H011	STEAM GEN 2 MAIN STEAM LN1 CONSTANT SPRING HANGER Replace failed constant spring support.	5/10/2024	5615569-0
2	3SI107H012	SNUBBER HPSI PMP DISCHGTRAIN B AND RWT Replace snubber for cause. Torque carrier and shaft assembly are bent. Snubber passed ST requirements.	2/20/2024	5510445-0
3	3PSPAL101	AIR AFTERCORS HT EXCH TOSPRAY POND TRAIN A S-001 Base metal repair of pipe spool.	3/05/2023	5392007-3
3	3MDGAE01A	EDG INTERCOOLER A Weld repair of corroded areas	3/05/2023	5392011-0
3	3MDGAE01B	EDG INTERCOOLER B Weld repair of corroded areas	3/05/2023	5392011-0
3	3MDGAE01A	EDG INTERCOOLER CROSS CONNECT SPOOLS (5, 6, 7, and 8) Weld repair of corroded areas	3/05/2023	5392011-0

Table 2

Abstract of 3R24 Repair/Replacement Activities Required for Continued Service

Code Class	Component ID	Description of Work	Date Complete	Repair/Replacement Plan Number
3	3MDGAE05	EDG JACKET WATER COOLER Weld repair of corroded areas	3/05/2023	5392011-0
3	3MDGAE04	EDG LUBE OIL COOLER Weld repair of corroded areas	3/05/2023	5392011-0
3	3PSPBL032A	ESS SPRAY POND SPBP01 TOJACKET WATER COOLER (Spools 14 and 15) Base Metal Repair of piping	6/16/2023	5398442-4
3	3PSPBL049A	DG CLG WTR HT EXCH DGBE01 FROM SPRAY POND TRAIN B (Spool 1) Base Metal Repair of Piping	6/16/2023	5398442-4
3	3PSPBL106	LUBE OIL CLR DGBE04 TOSPRAY POND TRAIN B (Spools 1 and 4) Base Metal Repair of Piping	6/16/2023	5398442-4
3	3MDGBE01A	EDG INTERCOOLER A Weld repair of corroded areas	6/16/2023	5398449-0
3	3MDGBE04	EDG LUBE OIL COOLER Weld repair of corroded areas	6/16/2023	5398449-0
3	3MDGBE01B	EDG INTERCOOLER B Weld repair of corroded areas	6/16/2023	5398449-0
3	3MDGBE05	EDG JACKET WATER COOLER Weld repair of corroded areas	6/16/2023	5398449-0
3	3MEWAE01	ECWS HTEXCH A Perform base material repairs to the heat exchanger as directed by engineering weld inspection maps.	4/24/2024	5502134-1
3	3MDFBT01	"B" D/G FUEL OIL STORAGE TANK Fab and Install splice plate on cracked stiffener ring in Diesel Fuel Oil Tank	6/16/2023	5542379-0