



Palo Verde Nuclear
Generating Station

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10.CFR.50.55a

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February 1, 2001

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-37
Washington DC 20555-0001

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 2
Docket No. STN 50-529
Unit 2 Second 10-Year Interval – Ninth Refueling Outage (U2R9)
Inservice Inspection (ISI) Summary Report**

Pursuant to 10 CFR 50.55a and IWA-6240 of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 1992 Edition, 1992 Addenda, Arizona Public Service Company (APS) hereby submits the PVNGS Unit 2 Inservice Inspection Report for the ninth refueling outage, enclosed. This refueling outage was conducted between October 4, 2000 and November 6, 2000.

During the required inservice inspection (ISI) examinations, a pressurizer heater nozzle leak was identified. In addition, a leak was found on a sample line nozzle on steam generator number 1. The necessary repairs were performed and these findings along with other discrepant findings are documented in Section 7 (Repair & Replacement) of the enclosed report. Various other non-rejectable indications were detected during the course of ISI examinations, the records of which are maintained on file.

No commitments are being made to the NRC by this letter.

Should you have any questions, please contact Scott A. Bauer at (623) 393-5978.

Sincerely,

for.

C. DAVID MAULDIN

VICE PRESIDENT - NUCLEAR ENGINEERING
AND SUPPORT

CDM/AKK/RKB/kg

Enclosure

cc: E. W. Merschhoff [Region IV Administrator]
J. N. Donohew [NRR Project Manager]
J. H. Moorman [Sr. Resident Inspector]

AD47

ENCLOSURE

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT


NINTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 2

PALO VERDE NUCLEAR GENERATING STATION
UNIT 2 INSERVICE INSPECTION REPORT
NINTH REFUELING OUTAGE

ARIZONA PUBLIC SERVICE
5801 S. WINTERSBURG ROAD
TONOPAH, AZ 85354

PREPARED BY:  DATE: 12-12-00
REVIEWED BY: Aelan Monow DATE: 12/12/00
APPROVED BY: Michael Melter DATE: 1/02/01

COMMERCIAL SERVICE DATE: 9/19/86
REPORT DATE: 12/12/00

UNIT 2 INSERVICE INSPECTION REPORT

1.0 Introduction

This report is a summary of the examinations performed during the ninth Inservice Inspection (ISI) at Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This was the last refueling for the first period of Interval 2. The refueling began October 4, 2000 and was completed November 6, 2000. U2R9 was the first outage which implemented ASME Appendix VIII requirements, whereas increased ultrasonic techniques were used in the volumetric examination of piping welds. Palo Verde Unit 2 began commercial operation on September 19, 1986.

This report identifies the components examined, the examination methods used, the examination report numbers, and summarizes the examination results for each of the following categories:

1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.
2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.

This report is a summary of all examinations completed through Nov. 6, 2000 for period 1 of the 2nd interval. All of the examination report numbers listed in Appendix A for the ninth refueling and applicable examinations performed since the last summary report are numbered with 00-2XXX and are in bold print.

2.0 Examination Summary

The evaluation of the results from volumetric and surface examinations indicated that the integrity of the systems had been maintained. Augmented visual examinations were conducted on several RCS components and a PZR heater nozzle was found to have leakage. Repairs were performed. An augmented visual examination found leakage on a SG1 sample line nozzle and repairs were conducted. All discrepancies were corrected or determined "use as is" in accordance with PVNGS work control practices and ASME Section XI. The discrepant findings noted are listed in Section 7 (Repairs & Replacements).

Various non-rejectable indications were detected during the performance of examinations. These indications were recorded, and are maintained on file.

3.0 Examination Techniques

The three types of examinations utilized to perform the Inservice Examinations, along with the actual nondestructive examination techniques, are identified in the legend below:

VT-Visual	VT-1	General Condition
	VT-2	Leakage
	VT-3	Structural Condition
S-Surface	PT	Liquid Penetrant
	MT	Magnetic Particle
VOL-Volumetric	UT	Ultrasonic
	RT	Radiographic

All of the nondestructive examinations were performed using specific techniques and procedures that are indicated in ASME Section XI, or alternative examinations that are demonstrated to be equivalent or superior to those identified.

4.0 Accessibility

All items were examined to the extent practical. Any code limitations encountered during the examination are documented in Appendix B.

5.0 Personnel

All nondestructive examinations were performed by Arizona Public Service Company, Lambert, MacGill, Thomas, Inc. (LMT), or MQS. All personnel were certified in accordance with programs written to comply with the applicable requirements of ASME Section XI. Copies of all certifications are maintained on file. The Hartford Steam Boiler Inspection and Insurance Company provided the Authorized Nuclear Inservice Inspector.

6.0 Equipment and Materials

The equipment and materials utilized were certified to the requirements of ASME Section XI. Copies of all certifications are maintained on file.

7.0 Repairs and Replacements

No repairs or replacements were identified as a result of ISI examinations during U2R9. The PZR heater nozzle A-06 and a Steam Generator 1 sample line nozzle were rejected as a result of an augmented visual examination and were repaired per the requirements of the repair and replacement program. The applicable records and reports for the specific maintenance repair or replacements performed during U2R9 and after the last summary report are maintained on file at Palo Verde. The applicable NIS-2 forms are an attachment to Appendix D and are submitted for review with this report.

Items requiring corrective action as a result of the inservice or augmented examinations were as follows:

ZONE	CRDR/WO	ITEM ID	DISCREPANCY
RCS	2321742	SIUV628	Boric acid residue
RCS	2322158	SIEFO30	Boric acid residue
RCS	2324138	RCEPV100F	Boric acid residue
5	2327179	Heater A-6	PZR Heater nozzle leakage detected
SG	2330314	SG1 nozzle	Sample nozzle leakage detected

During initial walk down of the class 1 bolted connections, three RCS bolted connections were found to have boric acid residue. SIEFO30 and SIUV628 connections were disassembled and examined. The stainless steel bolting material showed no evidence of corrosion and were acceptable. Request for Relief numbers 11 and 12 were used to evaluate the condition of RCEPV100F. The condition, again with corrosion resistant bolting material, was found to be acceptable for continued operation. This evaluation is documented on CRDR #2324138.

An augmented visual examination of RCS components revealed leakage detected at the A06 PZR heater nozzle. Evaluations were performed and the A06 heater sleeve was plugged. A similar heater sleeve, B18, was also plugged after ID eddy current examinations revealed evidence of an ID crack indication. A significant investigation and transportability evaluation was performed and documented in CRDR #2326705.

A sample line nozzle on steam generator one revealed signs of leakage. The nozzle was repaired and reexamined.

APPENDIX A

INSERVICE INSPECTION
SUMMARY REPORT

APPENDIX A

Definition of Terms

The column headings for the tables on the following pages are defined below:

ASME Item No: The ASME Section XI Category/Item Numbers are listed in the Code, Subsections IWB and IWC. The item number prefixes are defined below:

AHE - Augmented high energy systems piping
B - ASME Class 1 systems
BFLYWH - Reactor coolant pump flywheels
BIWF - ASME Class 1 supports
C - ASME Class 2 systems
CIWF - ASME Class 2 supports

Zone No: Area designation per PVNGS design

Comp/Sys: Component or system descriptor

Insp Per: Inspection period

Amt Req'd: Number of items required to be completed in the period

Amt Comp: Number of required items completed

Item ID: Item identification per ISI program/zone drawings

Reports (VOL): Volumetric exam report number

(SURF): Surface exam report number

(VIS): Visual exam report number

Remarks: Re-exam or replacement remarks indicate acceptable examination results

Definition of terms continued

ADV:	Atmospheric Dump Valve
Aux FW:	Auxiliary Feedwater
Atmos Dump:	Atmospheric Dump
Circ:	Circumferential
Cont:	Containment
CS:	Containment Spray
CSP:	Containment Spray Pump
DWNCMR:	Downcomer
FW:	Feedwater
HPSI:	High Pressure Safety Injection
Letdown HT Exch:	Letdown Heat Exchanger
LPSI:	Low Pressure Safety Injection
MS:	Main Steam
PSV:	Pressurizer Safety Valve
PZR:	Pressurizer
RCP:	Reactor Coolant Pump
RCS:	Reactor Coolant System
Reg HT Exch:	Regenerative Heat Exchanger
RT:	Radiographic Testing
SD:	Shutdown
SDCHX:	Shutdown Cooling Heat Exchanger
SG:	Steam Generator
SI:	Safety Injection
SNUB. REDUC:	Snubber Reduction Program
UT:	Ultrasonic Testing

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
AHE5.51 & 5.52	47 MS SG1	One	12	12	47-1	99-2342	99-2324		
					47-2	99-2343	99-2324		
					47-4	99-2438	99-2202		
					47-8	99-2439	99-2202		
					47-12	99-2440	99-2202		
					47-16	99-2441	99-2202		
					47-20	99-2442	99-2202		
					47-24	00-2476	00-2473		
					47-25	99-2344	99-2202		
					47-28	99-2297	99-2284		
	51 Atmos Dump SG1	One	13	13	47-29	99-2298	99-2284		
					47-30	99-2345	99-2202		
					51-1	99-2286	99-2285		
					51-2	99-2287	99-2082		
					51-3	99-2288	99-2082		
					51-4	99-2289	99-2082		
					51-5	99-2290	99-2082		
					51-6	99-2291	99-2082		
					51-7	00-2209	00-2211		
					51-8A	00-2210	00-2212		
	53 Steam to Aux FW	One	10	10	51-8B	99-2292	99-2082		
					51-9	99-2293	99-2082		
					51-85	99-2295	99-2285		
					51-86	99-2296	99-2285		
					51-40	99-2294	99-2082		
					53-11	99-2299	99-2083		
					53-12	99-2300	99-2083		
					53-13	99-2301	99-2154		PSE
					53-14	99-2302	99-2083		
					53-15	99-2303	99-2083		
	56 Feedwater SG1	One	6	6	53-21	99-2304	99-2083		
					53-22	99-2305	99-2083		
					53-23	99-2306	99-2083		
					53-24	99-2307	99-2154		PSE
					53-25	99-2308	99-2083		
					56-1	00-2432	00-2425		
					56-4	00-2433	00-2425		
					56-6	00-2477	00-2425		
					56-7	00-2478	00-2425		
					56-9	00-2479	00-2425		
60 Downcomer SG1	One	9	9	56-11	00-2480	00-2425			
				60-7	99-2525	99-2477			
				60-8	00-2192	00-2083			
				60-9	00-2193	00-2083			
					00-2194				
				60-11	00-2195	00-2083			
					00-2196				
				60-12	00-2197	00-2083			
				00-2198					

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.51 & 5.52	66 Blowdown SG1	One	10	10	60-14	99-2526	99-2477		
						00-2199			
						00-2200			
					60-15	99-2527	99-2477		
					60-16	99-2528	99-2477		
					60-17	99-2529	99-2477		
					66-1	99-2427	99-2478		
					66-2	99-2428	99-2318		
					66-3	99-2429	99-2318		
					66-4	99-2430	99-2318		
					66-5	99-2431	99-2318		
					66-7	99-2432	99-2318		
					66-8	99-2433	99-2318		
					66-9	99-2434	99-2318		
					66-25	99-2479	99-2478		
					66-28	99-2435	99-2318		
AHE 5.81 & 5.82	47 MS SG1	One	7	7	47-3	99-2356	99-2202		
					47-7	99-2357	99-2202		
					47-11	99-2359	99-2202		
					47-15	99-2360	99-2202		
					47-19	99-2361	99-2202		
					47-23	99-2362	99-2202		
B 1.22	02 Closure Head	One	33%	33%	47-27	99-2358	99-2284		
					2-4	99-2386	99-2390		Accessible Areas
						99-2387			
						99-2388			
B 1.30	01 Reactor Vessel	One	50%	50%	1-14	*			Examined 0°-180°
B 1.40	02 Closure Head	One	33%	33%	2-1	99-2382	99-2390		Examined 0°-120°
						99-2383			
						99-2384			
						99-2385			
B 2.11 & 2.12	5 Pressurizer	One	66%	66%	5-2	99-2276	99-2193		Examined 0°-240°
						99-2277			
						99-2278			
						99-2279			
					5-3	99-2276	99-2193		1' long seam for 5-2
						99-2277			
						99-2278			
						99-2279			
B 2.31 & 2.32	03 SG1	One	2	2	3-3	99-2251			
						99-2252			
						99-2253			
						99-2254			
					3-10	99-2247			
						99-2248			
						99-2249			
						99-2250			

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 2.31 & 2.32					3-11	99-2227 99-2232 99-2233 99-2234			
			33%	33%	3-5	99-2227 99-2228 99-2229			Examined 0°-120°
B 2.40	03 SG1	One	50%	50%	3-6	99-2230 99-2231 99-2232 99-2233 99-2234			Examined 0°-180°
B 3.90	01 Reactor Vessel	One	2	2	1-15 1-18	* *			*Seperate Report by Wesdyne. Exam completed in 2R7
B 3.100	01 Reactor Vessel	One	2	2	1-15 1-18	* *			
B 3.110	5 PZR	One	2	2	5-9	00-2379 00-2380 00-2381 00-2382			
					5-11	00-2341 00-2342 00-2343 00-2344			
B 3.120	5 PZR	One	2	2	5-9	00-2386 00-2387			
					5-11	00-2353 00-2357			
B 3.130	03 SG1	One	1	1	3-9	99-2243 99-2244 99-2245 99-2246			
	4 SG 2	One	1	1	4-9	00-2516 00-2517 00-2518 00-2519			
B 3.140	3 SG1	One	1	1	3-9	00-2521 00-2523			
	4 SG 2	One	1	1	4-9	00-2522 00-2524			
B 4.12	2 Closure Head	One	8	8	CEDM			00-2569	
B 4.13	1 Reactor Vessel	One	5	5	Instru			00-2569	
B 4.20	05 PZR	One	12	12	heaters			99-2522 00-2569	
B 5.40	20 PZR Surge	One	1	1	5-34	00-2426 00-2427 00-2428 00-2520	00-2111		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 5.40	31 PZR Safeties	One	1	1	5-29	00-2383 00-2384 00-2385 00-2429 00-2099	00-2089		
B 6.10	02 Closure Head	One	18	18	1 thru 18		99-2332	99-2333	
B 6.30	02 Closure Head	One	18	18	1 thru 18	00-2296	99-2335		
B 6.50	02 Closure Head	One	18	18	1 thru 18			99-2334	
B 6.180	16 RCP 1A	One	5	5	1 thru 5	00-2394		99-2444	
	17 RCP 1B	One	5	5	1 thru 5	00-2394		99-2447	
	18 RCP 2A	One	5	5	1 thru 5	00-2394		99-2446	
	19 RCP 2B	One	5	5	1 thru 5	00-2394		99-2445	
B 6.200	16 RCP 1A	One	5	5	1 thru 5			99-2444	
	17 RCP 1B	One	5	5	1 thru 5			99-2447	
	18 RCP 2A	One	5	5	1 thru 5			99-2446	
	19 RCP 2B	One	5	5	1 thru 5			99-2445	
B 7.20	05 Pressurizer	One	20	20	20 studs			99-2260	
B 7.30	03 SG1	One	40	40	40 studs			99-2258	
	04 SG2	One	40	40	40 studs			99-2259	
B 7.50	31 Pzr Safeties	One	1	1	PSV200			99-2261	
					PSV201			99-2373	
					PSV202			99-2261	
					PSV203			99-2373	
B 7.60	37 Charging	One	1	1	V435			99-2113	
	16 RCP 1A	One	5	5	1 thru 5			99-2444	
	17 RCP 1B	One	5	5	1 thru 5			99-2447	
	18 RCP 2A	One	5	5	1 thru 5			99-2446	
	19 RCP 2B	One	5	5	1 thru 5			99-2445	

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 7.70	21 SD Cooling A	One	1	1	UV653			99-2321	
	22 SD Cooling B	One	1	1	UV654			00-2324	
	23 SI 1A	One	1	1	V237			00-2567	
	24 SI 1B	One	1	1	V543			99-2069	
	25 SI 2A	One	1	1	V540			99-2177	
	26 SI 2B	One	1	1	V225			99-2091	
	28 PZR Spray	One	2	2	V241			99-2181	Reject
								99-2372	Re-exam
								00-2046	
					V242			99-2182	Reject
								99-2372	Re-exam
								00-2046	
	31 PZR Safeties	One	1	1	PSV200			99-2505	
								00-2435	
	32 Drain Loop 1A	One	2	2	V234			99-2081	
B 7.80					V334			99-2081	
	37 Charging	One	1	1	PDV240			99-2346	
	38 Drain Loop 1	One	1	1	V215			00-2097	
	39 Hpsi	One	1	1	V523			00-2085	
	2 Closure Head	One	1	1	CEDM 92			00-2322	
					CEDM 96			00-2322	
	B 8.20	5 Pressurizer	One	66%	66%	5-1	99-2394 99-2193		
							99-2395		
							99-2396		Reject. Acceptable per MNCR 93-RC-2027
							99-2397		
	B 8.30	03 SG1	One	33%	33%	3-1	99-2239 99-2194		Examined 0°-120°
							99-2240		
							99-2241		
							99-2242		
	B 9.11 & 9.12	06 RCS Piping	One	7	7	1-27	* 00-2511		*Separate report by Wesdyne. Exams completed in U2R7
						1-30	* 00-2511		
						6-7	* 00-2511		
						7-7	* 00-2511		
						3-30	99-2215 99-2548		
							99-2216		
							99-2217		
							99-2218		
						4-30	99-2219 99-2548		
							99-2220		
							99-2221		
							99-2222		
						17-2	00-2332 00-2290		
	20 PZR Surge	One	1	1	20-1	00-2201 00-2111			
	21 SD Cooling 1	One	3	3	6-11	00-2531 00-2112			
							00-2532		
							00-2533		
							00-2535		
							00-2539		
					21-18	00-2536 00-2528			
							00-2537		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.11 & 9.12					21-20	00-2534	00-2113		
						00-2538			
	22 SD Cooling 2	One	2	2	22-11	00-2244	00-2101		
						00-2245			
					22-14	00-2246	00-2101		
	23 SI 1A	One	4	4	9-10	00-2234	00-2100		
						00-2235			
						00-2236			
						00-2237			
					23-1	00-2238	00-2100		
					23-2	00-2239	00-2100		
					23-4	00-2240	00-2100		
						00-2241			
	25 SI 2A	One	2	2	25-26	99-2366	99-2078		
					25-29	99-2365	00-2084		
	26 SI 2B	One	2	2	26-9	99-2367	99-2320		
					26-11	99-2368	99-2320		
	29 PZR Spray	One	2	2	29-10	00-2114	00-2088		
						00-2116			
					29-11	00-2115	00-2088		
						00-2117			
	31 PZR Safeties	One	1	1	31-1	00-2354	00-2089		
B 9.21 & 9.22	27 PZR Spray 1A	One	4	4	9-11		00-2102		
					27-42		00-2102		
					27-43		00-2102		
					27-44		00-2102		
	28 PZR Spray 1A	One	4	4	28-31		99-2213		
					28-32		99-2213		
					28-39		99-2213		
					28-40		99-2213		
	30 Aux PZR Spray	One	2	2	30-1	00-2525	00-2527		88-08 letter
						00-2529			
					30-2	00-2526	00-2527		88-08 letter
						00-2530			
					30-7		99-2076		
					30-13		99-2076		
	32 Drain 1A	One	3	3	8-18		99-2079		
					32-1		99-2079		
					32-2		99-2079		
	36 Letdown	One	4	4	36-8		99-2191		
					36-9		99-2191		
					36-28		99-2180		
					36-35		99-2180		
	37 Charging	One	5	5	37-41		99-2347		
					37-42		99-2347		
					37-43		99-2347		
					37-45		99-2347		
					37-47		99-2347		
	39 HPSI A	One	2	2	39-1		99-2080		
					39-5		99-2080		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.21 & 9.22	40 HPSI B	One	3	3	40-1 40-2 40-3		00-2103 00-2103 00-2103		
B9.31	6 RCS Piping	One	1	1	9-8	00-2330 00-2331	00-2289		
B 9.32	06 RCS Piping	One	1	1	8-17		99-2068		
	22 SD Cooling	One	1	1	22-7A		00-2203		
B 9.40	32 Drain 1A	One	1	1	32-6		99-2079		
	38 Drain 1A	One	1	1	38-5		00-2098		
B10.10	36 Letdown	One	1	1	RC91H5 RC91H6		99-2180 99-2180		
B13.10	1 Reactor Vessel	One	100%	100%	Access areas			00-2556	
B14.10	2 Closure Head	One	2	2	2-9-76 2-9-83	00-2328 00-2328	00-2335 00-2335		
		One	2	2	2-10-76 2-10-83	00-2329 00-2329	00-2335 00-2335		
B15.10,20,	RCS Piping	One	ALL	ALL	PressBound			*	*RR#11 & 12
B15.20								*	99-2410,99-2522,00-2001
B15.30								*	00-2042,00-2043,00-2047
B15.40								*	00-2077,00-2191,00-2150
B15.50								*	00-2213,00-2262,00-2512
B15.60								*	00-2564,00-2569,00-2573
BFLYWHL16	RCP 1A	One	1	1	Flywheel	00-2202			
	17 RCP1B	One	1	1	Flywheel	00-2164			
	18 RCP 2A	One	1	1	Flywheel	00-2253			
	19 RCP 2B	One	1	1	Flywheel	00-2254			
F 1.10	20 PZR Surge	One	2	2	RC28H1 RC28H2			99-2151 99-2152	
	21 SD Cooling A	One	7	7	RC51H1 RC51H2 RC51H3 RC51H821			00-2118 00-2119 00-2120 00-2121	support deleted
					SI240H10 SI240H11 SI240H13			99-2337 99-2338 99-2339	
	22 SD Cooling	One	4	4	RC68H5 RC68H6 SI193H17 SI193H19			00-2104 00-2105 00-2106 00-2107	support deleted
	23 SI 1A	One	2	2	SI207H3 SI207H5			00-2086 00-2087	support deleted
	24 SI 1B	One	2	2	SI223H3 SI223H4			99-2117 99-2523	support deleted
	25 SI 2A	One	2	2	SI156H7 SI156H9			99-2094 99-2099	support deleted
F 1.10	26 SI 2B	One	2	2	SI179H9 SI179H11			99-2524 99-2171	support deleted
	27 PZR Spray 1A	One	9	9	RC62H26 RC62H27 RC62H28 RC62H29			99-2153 99-2203 99-2155 99-2156	support deleted

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					RC62H30			99-2157	
					RC62H31			99-2158	support deleted
					RC62H32			99-2159	
					RC62H33			99-2504	
					RC62H34			99-2160	support deleted
	28 PZR Spray 1B	One	8	8	RC17H24			99-2144	
					RC17H34			99-2145	
					RC17H36			99-2146	
					RC17H38			99-2147	
					RC17H39			99-2148	support deleted
					RC17H40			99-2149	
					RC17H41			99-2150	support deleted
					RC17H42			99-2503	
	29 PZR Spray	One	2	2	RC18H16			00-2090	
					RC18H18			00-2091	
	32 Drain 1A	One	2	2	RC60HA			99-2031	support deleted
					RC60HB			99-2127	support deleted
	36 Letdown	One	9	9	RC91H1			99-2204	
					RC91H5			99-2197	
					RC91H6			99-2255	
					RC91HB			99-2206	support deleted
					RC91HD			99-2207	
					RC91HE			99-2199	support deleted
					RC91HY			99-2208	
					RC91HZ			99-2205	
					RC91HAA			99-2209	
					RC91HAK			99-2210	
	37 Charging	One	14	14	CH5H2			99-2376	support deleted
					CH5H3			99-2377	
					CH5H7			99-2378	Expansion
					CH5H13			99-2379	Expansion
					CH5H25			99-2110	
					CH5H26			99-2348	support deleted
					CH5H27			99-2349	
					CH5H28			99-2350	
					CH5H30			99-2351	
					CH5H34			99-2352	
					CH5H35			99-2353	
					CH5H36			99-2354	
					CH5H42			99-2111	Reject
								99-2506	Re-exam
								00-2076	
					CH5H43			99-2380	support deleted
					CH5H44			99-2381	
					CH5HAA			99-2112	support deleted
F 1.10	39 HPSI A	One	4	4	SI248H26			99-2089	support deleted
					SI248H27			99-2088	
					SI248H28			99-2087	
					SI248H30			99-2092	

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.40	40 HPSI B	One	3	3	SI199H13			00-2108	support deleted
					SI199H14			00-2109	
					SI199H21			00-2110	
	03 SG1	One	1	1	3-40			99-2224	
	05 Pressurizer	One	0	0	5-40			99-2225	
	16 RCP 1A	One	2	2	16-17			99-2448	
					16-18			99-2449	
	17 RCP 1B	One	2	2	17-17			99-2450	
					17-18			99-2451	
	18 RCP 2A	One	4	4	18-12			99-2452	
					18-13			99-2453	
					18-14			99-2454	
					18-15			99-2455	
	19 RCP 2B	One	4	4	19-12			99-2456	
					19-13			99-2457	
					19-14			99-2458	
					19-15			99-2459	
C 1.10	41 SG 1	One	1(50)	1(50%)	41-3		00-2292		exam 180° - 360°
							00-2293		
							00-2294		
							00-2295		
			1(50%)	1(50%)	41-4		00-2279		exam 180° - 360°
C 1.20							00-2280		
							00-2281		
							00-2282		
	69 Letdown HTEXCH	One	50%	50%	69-1		99-2436		exam 0° - 180°
	41 SG 1	One	1(50%)	1(50%)	41-5		00-2230		exam 180° - 360°
C 1.30							00-2231		
							00-2232		
							00-2233		
	41 SG1	One	1(50%)	1(50%)	41-1		99-2235		exam 0° - 180°
							99-2236		
C 2.21							99-2237		
							99-2238		
	69 Letdown HTEXCH	One	50%	50%	69-2		99-2437		exam 0° - 180°
	41 SG 1	One	1	1	41-16		00-2349	00-2336	
							00-2350		
C 3.10	42 SG 2	One	1	1	42-16		00-2351	00-2337	
							00-2352		
	41 SG 1	One	1	1	41-42		00-2176		270°
C 3.20	43 MS SG1 90	One	1	1	SG36H17		99-2325		
							00-2175		
	45 MS SG2 270	One	1	1	SG42H14		99-2326		
	54 FW SG1	One	0	0	SG2H1		99-2322		
	55 FW SG2	One	1	1	SG5H1		99-2323		
C 3.20					SG5H9		00-2300		
							00-2311		
	64 Blowdown SG 1	One	3	3	SG39H15		00-2078		
					SG39H17		00-2079		
					SG53H1		00-2073		support deleted

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 3.30	65 Blodown SG 2	One	2	2	SG48H20		00-2080		support deleted
					SG52H1		00-2045		
	71 LPSI Discharge	One	1	1	SI87H11		99-2200		96% covrg , Accept. per code case N490
	76 CS Suction	One	1	1	SI9H4		99-2214		
	88 East Wrap	One	1	1	SI72H13		99-2398		
	89 East Wrap	One	1	1	SI194H14		99-2272		
	91 West Wrap	One	4	4	SI70H9		99-2178		
					SI70H11		99-2178		
					SI70H12		99-2178		
					SI70H16		99-2178		
	92 West Wrap	One	1	1	SI241H21		99-2179		
	100 LPSI Suction	One	1	1	SI369H1		99-2319		
	102 SI Suction A	One	3	3	SI307H2		00-2305		
					SI307H3		00-2378		
					SI307H15		00-2306		
	113 HPSI Discharge	One	1	1	SI107H22		00-2214		
	72 LPSI Pump A	One	3	3	72-3A		99-2226		
					72-3B		99-2226		
					72-3C		99-2226		
	116 HPSI A Pump	One	4	4	116-1A		00-2558		
					116-1B		00-2558		
					116-1C		00-2558		
					116-1D		00-2558		
C 4.40	47 MS SG 1	One	20	20	V170		00-2393		
	48 MS SG1	One	20	20	V180		00-2393		
C 5.11 & 5.12	63 Aux FW	One	1	1	63-4		00-2273	00-2039	
							00-2274		
	70 & 73 LPSI Suction A & B	One	1	1	70-58		99-2314	99-2264	
	82 & 85 SD Cooling A & B	One	2	2	72-50		99-2271	99-2126	
					73-49		00-2152	00-2153	
	83 & 86 SD Cooling A & B	One	4	4	74-19		99-2270	99-2022	
					74-21		99-2265	99-2263	
					74-22		99-2266	99-2263	
					74-105		99-2269	99-2059	
	88 & 91 East & West Wrap	One	6	6	74-44		99-2184	99-2178	
					76-2		99-2183	99-2178	
					76-21		00-2259	00-2224	
							00-2308		
					77-7		00-2326	00-2225	
							00-2327		
					77-14		00-2260	00-2226	
							00-2307		
							00-2325		
C 5.11 & 5.12	94 & 95 88' Pipe Chase	One	1	1	74-40		00-2392	00-2345	
	96,97,98,99 LPSI Loop	One	3	3	78-45		99-2363	99-2077	
	1A,1B, 2A, 2B				78-47		99-2364	99-2077	
					79-23		00-2309	00-2255	
							00-2310		

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 5.21	102 SI Suction A	One	1	1	84-12	00-2355	00-2340		
						00-2356			
	103 Refueling suction A	One	1	1	86-57	00-2430	00-2346		
						00-2431			
	104 SI Suction B	One	1	1	85-46	00-2390	00-2278		
						00-2391			
	105 Refueling Suction A	One	1	1	87-23	00-2040	00-2048		
	106 & 107 HPSI	One	4	4	106-1	00-2485	00-2263		
						00-2487			
					106-21	00-2481	00-2264		
						00-2482			
					107-11	00-2242	00-2081		
						00-2243			
					107-42	00-2514	00-2082		
						00-2515			
C 5.30 C 5.41 & 5.42	108 & 109 HPSI	One	2	2	109-4	00-2489	00-2396		
					109-21	00-2486	00-2395		
						00-2488			
	110 & 111 HPSI	One	2	2	110-6	00-2291	00-2222		
					110-39	00-2333	00-2223		
						00-2388			
	112 & 113 HPSI	One	3	3	112-1	00-2165	00-2154		
					112-33	00-2166	00-2154		
					112-45	00-2167	00-2154		
	114 & 115 HPSI	One	1	1	115-13	00-2334	00-2256		
						00-2389			
	107 HPSI	One	1	1	107-53		00-2092		
	82 & 85 SD Cooling A & B	One	1	1	72-49A		99-2067		
	88 & 91 East & West Wrap	One	1	1	74-102		99-2178		
C 5.51 & 5.52	43 MS SG1 90	One	1	1	43-2	99-2370	99-2312		
	44 MS SG1 270	One	1	1	44-1	99-2369	99-2310		
	46 MS SG2 90	One	1	1	46-25	99-2371	99-2311		
	54 FW SG 1	One	1	1	54-41	00-2434	00-2261		
	55 FW SG 2	One	2	2	55-1	00-2074	00-2044		
					55-15	00-2075	00-2044		
	58 Aux & Dwncmr SG1	One	1(5)	1(5)	41-39	99-2393	99-2198		()Identifies augment EXAM(IEB 79-13 & SER 83-07)
					58-1	99-2392	99-2198		
					58-12	99-2128	99-2023		
					58-13	99-2129	99-2023		
					58-16	99-2130	99-2023		
					58-16A	99-2131	99-2023		
	59 Aux & Dwncmr SG2	One	0(5)	0(5)	59-1	99-2391	99-2192		
					59-12	99-2132	99-2024		
					59-13	99-2133	99-2024		
					59-16	99-2134	99-2025		
					59-16A	99-2135	99-2024		
C 6.10	64 Blowdown SG1	One	1	1	64-30	00-2347	00-2338		
	65 Blowdown SG2	One	1	1	65-28	00-2348	00-2339		
	116 & 117 HPSI	Interval	2	1	116-2		00-2557		

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 7.10	Piping Systems	One	all	all	Press			*	*00-2041,00-2042,00-2138
C 7.30								*	00-2140,00-2141,00-2142
C 7.50								*	00-2143,00-2146,00-2147
C 7.70								*	00-2148,00-2149,00-2151
									00-2157,00-2160,00-2161
									00-2162,00-2163,00-2284
									00-2285,00-2442,00-2494
									00-2513,00-2547,00-2548
									00-2549,00-2550,00-2555
									00-2563,00-2564,00-2565
									00-2566,00-2569,00-2570
									00-2571,00-2572,00-2575
F 1.20	43 MS SG1 90	One	3	3	SG36H17			00-2177	
					SG36H884			00-2178	
					SG36H885			00-2179	
	44 MS SG1 270	One	2	2	SG33H17			00-2180	
					SG33H18			00-2181	support deleted
	45 MS SG2 270	One	1	1	SG42H14			00-2182	support deleted
	46 MS SG2 90	One	2	2	SG45H17			00-2183	
								00-2551	
					SG45H18			00-2184	support deleted
								00-2552	support deleted
	47 MS SG1 270	One	1	1	SG206H1			99-2336	
	51 Atm Dump SG1	One	1	1	SG59H6			99-2090	
	53 Steam to Aux FW	One	4	4	SG81H1			99-2072	
					SG81H2			99-2073	
					SG83H1			99-2074	
					SG83H2			99-2075	
	54 FW SG1	One	7	7	SG2H4			00-2312	
					SG2H5			00-2313	
					SG2H12			00-2562	
					SG2H13			00-2314	
					SG2H14			00-2315	
					SG2H15			00-2316	
					SG2H803			00-2540	
	55 FW SG2	One	9	9	SG5H9			00-2297	
					SG5H10			00-2298	
					SG5H11			00-2299	
					SG5H12			00-2541	
					SG5H805			00-2542	
					SG5H809			00-2545	
					SG5H812			00-2361	
					SG14H1			00-2543	
					SG14H804			00-2544	
	58 Aux & Dwnclmr SG1	One	7	7	SG8H2			00-2317	
					SG8H3			00-2318	
					SG8H4			00-2319	
					SG8H5			00-2320	
					SG8H20			00-2321	
					SG8H901			00-2436	
					SG8H903			00-2437	

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	59 Aux & Dwmcmr SG2	One	6	6	AF6H1			99-2137	
					SG11H4			99-2507	Expansion
					SG11H8			99-2040	
					SG11H9			99-2041	
					SG11H10			99-2042	
					SG11H11			99-2043	Reject
								99-2508	Re-exam
					SG11H12			99-2044	
					SG11H16			99-2509	Expansion
					SG200H9			99-2086	
					SG200H13			99-2521	PSE
	60 Dwncmr FW SG1	One	1	1	SG200H14			99-2483	PSE
					SG203H13			99-2519	PSE
					SG203H14			99-2520	PSE
	61 Dwncmr FW SG2	One	0	0					
	62 Aux FW SG1	One	1	1	AF4H3			99-2136	
	63 Aux FW SG2	One	2	2	AF6H2			99-2138	
					AF16H1			99-2139	
	64 Blowdown SG1	One	12	12	SG39H10			00-2049	
					SG39H11			00-2050	support deleted
					SG39H12			00-2051	
					SG39H13			00-2052	support deleted
					SG39H14			00-2063	support deleted
					SG39H15			00-2064	
					SG39H16			00-2065	
					SG39H17			00-2053	support deleted
					SG39H26			00-2054	
					SG53H1			00-2071	support deleted
					SG53H2			00-2072	support deleted
	65 Blowdown SG 2	One	12	12	SG53H7			99-2161	support deleted
					SG53H924			00-2062	
					SG48H2			00-2066	support deleted
					SG48H3			00-2055	support deleted
					SG48H4			00-2056	
					SG48H19			00-2057	support deleted
					SG48H20			00-2058	support deleted
					SG48H21			00-2059	
					SG48H925			00-2060	
					SG52H1			00-2067	support deleted
					SG52H2			00-2068	support deleted
	70 LPSI Suction A	One	1	1	SG52H3			00-2069	support deleted
					SG52H4			00-2070	
					SG52H923			00-2061	
					SI67H4			99-2223	
					SI87H11			99-2039	
					SI9H4			99-2195	
					SI79H1			99-2169	
					SI79H2			99-2101	
					SI79H3			99-2102	
					SI79H4			99-2170	
	71 LPSI Discharge A	One	1	1					
	76 CS Suction A	One	1	1					
	77 CS Discharge A	One	4	4					

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	79 CS Suction B	One	3	3	SI34H1			99-2162	
					SI34H2			99-2163	
					SI34H3			99-2164	
	80 CS Discharge B	One	3	3	SI119H7			99-2267	
					SI119H8			99-2262	
					SI119H9			99-2268	
	82 SD Cooling A	One	2	2	SI78H5			99-2093	
					SI79H10			99-2096	
	83 SD Cooling A	One	4	4	SI87H9			99-2095	
					SI89H1			99-2085	
					SI89H2			99-2098	
					SI89H3			99-2097	
	85 SD Cooling B	One	3	3	SI119H10			99-2185	
					SI123H6			99-2186	
					SI123H7			99-2187	
	86 SD Cooling B	One	3	3	SI129H10			99-2188	
					SI129H11			99-2189	
					SI129H12			99-2190	
								99-2530	
	88 East Wrap	One	8	8	SI72H11			99-2317	
					SI72H13			99-2316	
					SI72H14			99-2315	
					SI72H21			00-2186	
					SI72H22			00-2187	
					SI73H1			00-2188	
					SI73H2			00-2189	
	89 East Wrap	One	4	4	SI73H3			00-2190	
					SI194H12			99-2275	
					SI194H13			99-2274	
					SI194H14			99-2273	
					SI194H23			99-2309	
	91 West Wrap	One	7	7				99-2331	Reject Re-exam
					SI70H9			99-2165	
					SI70H10			99-2166	
					SI70H11			99-2114	
					SI70H12			99-2167	
					SI70H13			99-2115	
					SI70H15			99-2168	
	92 West Wrap	One	5	5	SI70H16			99-2116	
					SI239H3			99-2172	
					SI241H12			99-2173	
					SI241H14			99-2174	
					SI241H15			99-2175	
	94 LPSI A	One	3	3	SI241H21			99-2176	
					SI89H7			99-2399	
					SI89H8			99-2400	
					SI89H9			99-2401	
	95 LPSI B	One	6	6	SI72H8			99-2402	
					SI72H10			99-2403	
					SI134H11			99-2404	
					SI134H12			99-2405	

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ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20					SI194H3			99-2406	support deleted
					SI194H5			99-2407	
					SI194H6			99-2408	Expansion
					SI202H7			99-2467	
	96 LPSI to Loop 1A	One	3	3	SI202H8			99-2468	support deleted
					SI202H9			99-2469	support deleted
	97 LPSI to Loop 1B	One	10	10	SI220H8			00-2438	
					SI220H9			99-2470	
					SI220H10			99-2471	
					SI220H11			99-2472	support deleted
					SI220H12			99-2473	
					SI220H13			99-2474	
					SI220H14			99-2475	support deleted
					SI220H15			99-2476	
					SI220H19			99-2480	
					SI220H22			99-2481	support deleted
	98 LPSI to Loop 2A	One	2	2	SI155H5			99-2100	
					SI155H6			99-2084	
	100 LPSI A Suction	One	2	2	SI241H19			99-2340	
					SI369H1			99-2341	
	101 LPSI B Suction	One	0	0	SI194H26			99-2443	Expansion
	102 SI Suction A	One	6	6	SI307H2			00-2301	
					SI307H3			00-2302	
					SI307H4			00-2303	support deleted
					SI307H5			00-2258	
					SI307H8			00-2257	
					SI307H15			00-2304	
	103 Refuel Suction A	One	6	6	CH142H13			99-2409	
					CH142H14			99-2411	
					CH142H15			99-2412	
					CH142H19			99-2413	
					CH142H22			99-2414	
					CH424H1			99-2415	
	104 SI Suction B	One	7	7	SI33H1			99-2460	support deleted
					SI33H2			99-2461	support deleted
					SI33H3			99-2462	
					SI308H5			99-2463	
					SI308H8			99-2464	
					SI308H10			99-2465	support deleted
					SI308H11			99-2466	
	105 Refuel Suction B	One	7	7	CH149H9			00-2168	
					CH149H10			00-2169	
					CH149H12			00-2170	
					CH149H13			00-2171	
					CH149H14			00-2172	
								00-2559	
	106 HPSI A	One	8	8	CH149H21			00-2173	
					CH149H28			00-2174	
					SI99H1			00-2265	
					SI99H2			00-2266	
					SI100H1			00-2267	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	107 HPSI B	One	6	6	SI100H2			00-2268	
					SI100H3			00-2269	
					SI100H5			00-2270	
					SI100H34			00-2271	
					SI106H1			00-2272	
					SI107H3			00-2093	
					SI107H11			00-2094	
					SI107H12			00-2095	
					SI112HC			00-2560	
					SI112HG			00-2561	
	108 HPSI Discharge	One	11	11	SI112HH			00-2096	
					SI100H22			99-2416	
					SI100H23			99-2417	
					SI100H24			99-2418	
					SI100H25			99-2419	
					SI100H26			99-2420	
					SI100H27			99-2421	
					SI100H28			99-2422	
					SI100H29			99-2423	
					SI100H31			99-2424	
	109 HPSI Dischrg	One	7	7	SI100H32			99-2425	
					SI100H35			99-2426	
					SI107H13			00-2422	
					SI107H14			00-2423	
					SI107H15			00-2474	
					SI107H16			00-2475	
					SI107H21			00-2424	
					SI107H47			00-2439	
					SI107H50			00-2440	
	110 HPSI Dischrg	One	7	7	SI103HB			00-2219	support voided
					SI103HD			00-2220	
					SI103HE			00-2221	
					SI218H1			00-2215	
					SI218H2			00-2216	
					SI218H3			00-2217	
					SI218H4			00-2218	
	111 HPSI Dischrg	One	3	3	SI100H37			00-2229	
					SI100HA			00-2228	
					SI100HB			00-2227	
	112 HPSI Dischrg	One	3	3	SI176H1			00-2155	
					SI176H2			00-2443	
					SI176H3			00-2156	
	113 HPSI Discharge	One	5	5	SI107H22			00-2204	
					SI107H24			00-2205	
					SI157H2			00-2206	
					SI157H3			00-2207	
					SI157H4			00-2208	
	F 1.40	One	2	2	41-41			00-2323	
					41-42			00-2323	
								00-2185	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.40	72 LPSI PUMP A	One	3	3	72-3A			99-2482	
					72-3B			99-2482	
					72-3C			99-2482	
	116 HPSI A Pump	One	4	4	116-1A			00-2554	
					116-1B			00-2554	
					116-1C			00-2554	
					116-1D			00-2554	

APPENDIX B

INSERVICE INSPECTION CODE LIMITATIONS

REFUELING OUTAGE NUMBER NINE

CODE LIMITATIONS

<u>ASME ITEM</u>	<u>ZONE/COMPONENT</u>	<u>ITEM ID</u>	<u>REPORT #</u>
C 3.20	113 HPSI Discharge	2SI107H22	00-2214

LIMITATION

The welded attachment was inside wall penetration making 1 lug entirely inaccessible. 46% coverage.

<u>ASME ITEM</u>	<u>ZONE/COMPONENT</u>	<u>ITEM ID</u>	<u>REPORT #</u>
C 3.30	116 HPSI Pump A	116-1B	00-2558
		116-1C	00-2558

LIMITATION

The bottom side of these attachments were inaccessible due to pump support configuration. 72% coverage of each support.

<u>ASME ITEM</u>	<u>ZONE/COMPONENT</u>	<u>ITEM ID</u>	<u>REPORT #</u>
B 9.11	22 SD Cooling B	22-11	00-2244,00-2245
	23 SI 1A	23-4	00-2240,00-2241
C 5.11	63 Aux Feedwater	63-4	00-2273,00-2274
	91 West Wrap	77-7	00-2326,00-2327
	91 West Wrap	77-14	00-2260,00-2307,00-2325
	102 SI Suction A	84-12	00-2325,00-2326
	104 SI Suction B	85-46	00-2390,00-2391
C 5.21	106 HPSI A	106-1	00-2485,00-2487
	106 HPSI A	106-21	00-2481,00-2482
	107 HPSI Discharge	107-11	00-2242,00-2243
	115 HPSI Loop 2A & 2B	115-13	00-2334,00-2389

LIMITATION

Single sided austenitic examinations estimated at 50% coverage based on Appendix VIII PDI demonstration.

APPENDIX C

FORM
NIS-1

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER ARIZONA PUBLIC SERVICE COMPANY, ET AL
ADDRESS P.O. BOX 52034 PHOENIX, ARIZONA
2. PLANT PALO VERDE NUCLEAR GENERATING STATION
ADDRESS 5801 S WINTERSBURG RD TONOPAH, ARIZONA
3. UNIT NUMBER: 2
4. OWNERS' CERTIFICATE OF AUTHORIZATION
5. COMMERCIAL SERVICE DATE: September 19, 1986
6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO
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THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE NINTH REFUELING ARE NUMBERED WITH A 00-2XXX REPORT NUMBER AND ARE IN BOLD PRINT.

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 9-21-00 TO 11-5-00
8. INSPECTION INTERVAL FROM 3-18-97 TO 3/17/07
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.
- THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. THE EXAMINATIONS ARE LISTED BY ASME ITEM NUMBERS WITH CORRESPONDING EXAMINATION REPORT NUMBERS. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE NINTH REFUELING ARE NUMBERED WITH A 00-2XXX REPORT NUMBER AND ARE IN BOLD PRINT.

10. ABSTRACT OF CONDITIONS NOTED

THERE ARE NO OUTSTANDING REJECTABLE ITEMS IN UNIT 2. THE REJECTABLE ITEMS DURING THIS OUTAGE CONSISTED OF 5 ITEMS. THREE REJECTED CLASS 1 BOLTED CONNECTIONS WHERE LEAKAGE WAS DETECTED. TWO NOZZLES WERE REJECTED DUE TO EVIDENCE OF LEAKAGE FOUND AS AN AUGMENTED VISUAL EXAMINATION AND NOT AS A RESULT OF AN ISI EXAMINATION. THE REJECTED COMPONENTS ARE LISTED IN SECTION 7.0 REPAIRS AND REPLACEMENTS OF THIS REPORT.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

THE REJECTED CLASS 1 BOLTED CONNECTIONS WERE DISASSEMBLED BY A WORK ORDER AND RE-EXAMINED. ONE COMPONENT WAS EVALUATED AS ACCEPTABLE PER RELIEF REQUEST NUMBER 11 AND 12 WITH NO REWORK.

THE REJECTED NOZZLES WERE REPAIRED AND REEXAMINED UNDER SEPARATE WORK ORDERS WITH THEIR OWN NIS-2 FORMS.

SEVERAL REPAIRS AND REPLACEMENTS HAVE BEEN PERFORMED SINCE COMMERCIAL OPERATIONS DUE TO ROUTINE AND CORRECTIVE MAINTENANCE. WORK WAS PERFORMED IN ACCORDANCE WITH ASME SECTION XI AND APS WORK CONTROL PROCEDURES. ALL DOCUMENTS ARE MAINTAINED AT PALO VERDE.

WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

DATE 01/02/01 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael Melker

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 9-21-00 TO 11-5-00, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASME CODE, SECTION XI. BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS 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.

INSPECTOR

COMMISSIONS NB 9685 "N" "I" Az 264
NAT'L BOARD, STATE, PROVINCEDATE JANUARY 2, 2001

APPENDIX D
NIS-2 FORMS

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB14 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 211318
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.

9. ☐ ISI Flaw NDE Method of Flaw Detection N/A
 Report Number N/A

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Electrical portion of the heater failed. No failure in ASME pressure retaining boundary RPI Indap 8/31/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III Cl. 1 '71 Edition '73 RFP 8/31/00 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1, '74 Edition, '75 Winter Addenda
 14. ASME Section XI Code/Edition ASME Section III, Class 1, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
N/A Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
KVS Initial Date 8/31/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
KVS Initial Date 8/31/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Heater	44450049	7K		452693

19. Planner Karl V. Savage 8/31/00 Print Name Karl V. Savage
 Signature Date
 20. ISI Engineer RPI Indap 8/31/00 Print Name Ramakant P. Indap
 Signature Date
 21. ANII Robert G. Hogstrom 8-31-00 Print Name Robert G. Hogstrom
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/05/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 211318
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	7K	NA	2MRCEB14	2000	Replacement	Do

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Htu

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 211318

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA

Expiration Date 2/12

Signed

[Signature]

ISI Engineer

Date 10-22-00

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-22-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]

Inspector's Signature

Commissions

NB 9685 "N" "I" AZ 264

National Board, State, Province, and Endorsements

Date

10-22-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0668 2. Code Class ASME SECTION III CL2
 3. Item Description 2 INCH GLOBE VALVE (BORG-WARNER)
 4. N-5 Package Number 2SI09-3 5. W.O. Number 218846
 6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 218845. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 49610 BLT 1979, IS RE-USED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 218845 FOR MORE INFO.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
LEO 9/13/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
LEO 9/13/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.

LEO 9/13/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
LEO 9/13/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	331624	36938	00222821-0001
DISC	2000367	321975 S/N 172	M873E	00222821-0001
		321976C S/N 172		

19. Planner [Signature] 9/13/00 Signature Date Print Name CHARLES J. LARSON
 20. ISI Engineer [Signature] 9/29/00 Signature Date Print Name R. P. JINDAP
 21. ANII [Signature] 9-29-00 Signature Date Print Name R. G. HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 218846
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name
SAME AS ABOVE (ITEM #2) Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SI ASME CL II

5. (a) Applicable Construction Code SECTION III CL2 19 74 Edition, 75W Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	331624	N/A	2jsibuv0668	97	Replacement	Yes
DISC	BORG-WARNER	S/N 172	N/A	2jsibuv0668	97	Replacement	No

7. Description of Work REPLACE BONNET AND DISC IAW DMWO 218845

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks UNDER DIWO 218846, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR IAW DMWO 218845. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET & YOKE. BODY TO BONNET IS SEAL WELDED. BORG-WARNER VALVE BODY S/N 49610, BLT 1979, IS RE-USED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Alan Morrow Sr ISI Engineer Date 10/23/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 24, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0665 2. Code Class ASME SECTION III CL2
 3. Item Description 2 INCH GLOBE VALVE (BORG-WARNER)
 4. N-5 Package Number 2SI09-3 5. W.O. Number 218847
 6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 218845. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 53072 BLT 1979, IS RE-USED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 218845 FOR MORE INFO.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
ELC 9/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
ELC 9/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
ELC 9/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ELC 9/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	322813A S/N 18	8656124	00171372-0001
DISC	2000367	321976C S/N 202	M872C	00171372-0001
		321976B S/N 202		

19. Planner [Signature] 9/13/00 Print Name CHARLES J. LARSON
Signature Date
 20. ISI Engineer [Signature] 9/24/00 Print Name R. P. INDAP
Signature Date
 21. ANII [Signature] 9-29-00 Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 218847
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name
SAME AS ABOVE (ITEM #2) Authorization No. N/A
Address Expiration Date N/A

4. Identification of System SI ASME CL II

5. (a) Applicable Construction Code SECTION III CL2 19 74 Edition, 75W Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	S/N 18	N/A	2jsibuv0665	97	Replacement	Yes
DISC	BORG-WARNER	S/N 202	N/A	2jsibuv0665	97	Replacement	No

7. Description of Work REPLACE BONNET AND DISC IAW DMWO 218845

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks UNDER DIWO 218847, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR IAW DMWO 218845. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET & YOKE. BODY TO BONNET IS SEAL WELDED. BORG-WARNER VALVE BODY S/N 53072, BLT 1979, IS RE-USED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp NIA
Certificate of Authorization No. NIA Expiration Date _____
Signed Alan Monow Sr ISI Engineer Date 10/23/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Robert A. Ferguson Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 24, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231241
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE PER WORK ORDER 231241.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS SN#14537.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0200	APN#45003560	BY14537	N/A	
VALVE				

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231242
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231242.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS 1971
EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA
AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER
MEE #02504. 95 10-10-00

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO

MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO

MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date

MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0201	APN#45003560	BQ07679	N/A	
VALVE				
NIPPLE	APN#43571055	N/A	461449	
CAP	APN#43550622	N/A	HYD	

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
 Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231243
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231243.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS 1971
EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA
AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER
MEE #02504. 95-100 109-00

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0202	APN#45003560	BQ07678	N/A	
VALVE				
NIPPLE	APN#43571055	N/A	461449	
CAP	APN#43550622	N/A	HYD	

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R.P. Indap 10-10-00 Print Name R.P. INDAP
 Signature Date
 21. ANII Robert G. Hogstrom 10-10-00 Print Name ROBERT G. HOGSTROM
 Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231244
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE PER WORK ORDER W.O. 231244.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BY14538.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV203	APN#45003560	BY14538	N/A	
VALVE				

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEX01 2. Code Class 1
 3. Item Description REACTOR VESSEL
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 231270
 6. Original Construction Code Edition ASME SECT. III, CL 1 1971 EDITION W'73 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 8. Work Description FABRICATE AND INSTALL A NEW REACTOR VESSEL LEVEL MONITORING SYSTEM FLANGE NUT.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NEW FLANGE NUT REQUIRED DUE TO THE ORIGINAL BEING LOST.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1977 EDITION S'79 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
MB 10-31-00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MB 10-31-00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MB 10-31-00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MB 10-31-00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ROUND STOCK	APN 43610035	N/A	31462	480633

19. Planner Michael B. Newell 10-31-00 Print Name MICHAEL B. NEWELL, SR.
Signature Date
 20. ISI Engineer Alan Morrow 10/31/00 Print Name Alan Morrow
Signature Date
 21. ANII R.G. Holstrom 10-31-00 Print Name R.G. HOLSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10-31-00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 231270
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT

5. (a) Applicable Construction Code ASME Sect III, CI 1 19 71 Edition, W 73 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
REACTOR VESSEL	C-E	79173	22513	2MRCEX01	1979	Repaired	Yes
FLANGE NUT	N/A	N/A	N/A	2MRCEX01	2000	Replacement	No

7. Description of Work Fabricated RVLMS flange nut per drawing N001-0301-00208 and replaced lost nut.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work order 231270 fabricated and installed lost flange nut for the reactor vessel level monitoring system.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R. L. Brown
Owner or Owner's Designee, Title

Date 10/31/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-31-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. L. Brown
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL032 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233220
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA ^{6 SEP 10-24-00} ₁₀₋₂₄₋₀₀
 8. Work Description Half nozzle modification to pressure measurement nozzle 2JRCCPDT115C, and RTD nozzle plugging of spare RTD's 2JRCETW0111HD and 2JRCETW0111HB per the requirements of engineering DMWO 219026 and EDC 2000-00227.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Modification work to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00227.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, 1974 Ed., Summer 1974 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, 1974 Ed., Winter 1975 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 8/30/00 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 8/30/00 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCETW0111HA	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----
2JRCETW0111HC	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----
2JRCCPDT115C	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(Half Nozzle)	-----	-----	-----	-----

19. Planner Herbert L. Green 8/30/00 Signature Date Print Name Herbert L. Green
 20. ISI Engineer R. P. INDAP 8/31/00 Signature Date Print Name R. P. INDAP
 21. ANII R. G. HOOSTROM 8-31-00 Signature Date Print Name R. G. HOOSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/30/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 233220
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
P.O. Box 53999, Phoenix, AZ 85072-7529 Expiration Date N/A
Address
4. Identification of System Reactor Coolant System, Line number 2PRCEL032, Spool 001.
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W'75 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RCS HL #1	Combustion Eng.	771-301	N/A	2PRCEL032	1980	Repaired	Yes

7. Description of Work Perform ASME Class 1 welds (3) per DMWO 219029, Hot Leg Nozzle Modification

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Perform half nozzle modification to pressure measurement nozzle for 2JRCCPDT115C and RTD
nozzle plugging modifications to spare RDT's 2JRCETW0111HA and 2JRCETW0111HC.
Modifications performed per engineering requirements specified in DMWO 219026 and EDC
2000-00227.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-24-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature] Commissions NB 9685 "N" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-24-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL032 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233221
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0111HD and 2JRCETW0111HB per the requirements of engineering DMWO 219026 and EDC 2000-00228.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Modification work to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00228.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, 1974 Ed., Summer 1974 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, 1974 Ed., Winter 1975 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 8/30/00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 8/30/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 8/30/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 8/30/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCETW0111HD	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----
2JRCETW0111HB	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----

19. Planner Herbert L. Green 8/30/00 Print Name Herbert L. Green
 Signature Date
 20. ISI Engineer R. P. INDAP 8/31/00 Print Name R. P. INDAP
 Signature Date
 21. ANII R. G. HOUSTON 8/31/00 Print Name R. G. HOUSTON
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/30/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 233221
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
P.O. Box 53999, Phoenix, AZ 85072-7529 Expiration Date N/A
Address

4. Identification of System Reactor Coolant System, Line number 2PRCEL032, Spool 001.

5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W'75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RCS HL #1	Combustion Eng.	771-301	N/A	2PRCEL032	1980	Repaired	Yes

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg Nozzle Modification

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Perform RTD nozzle plugging modifications to spare RDT's 2JRCETW0111HD and 2JRCETW0111HB. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00228.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. Phelan Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. A. Ferguson Commissions NS 9685 "N" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL063 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233222
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0121HA and 2JRCETW0121HC per the requirements of engineering DMWO 219026 and EDC 2000-00229.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Modification work to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00229.

11. Repair/Replacement Work Organization Arizona Public Service
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, 1974 Ed., Summer 1974 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, 1974 Ed., Winter 1975 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Initial 8/30/00 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 8/30/00 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 8/30/00 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCETW0121HA	APN 00062036	N/A	NX0911HK	MR# 460015
(RTD Plug)	-----	-----	-----	-----
2JRCETW0121HC	APN 00062036	N/A	NX0911HK	MR# 460015
(RTD Plug)	-----	-----	-----	-----

19. Planner Herbert L. Green 8/30/00 Date Print Name Herbert L. Green
 Signature
 20. ISI Engineer R. P. INDAT 8/31/00 Date Print Name R. P. INDAT
 Signature
 21. ANII R. G. HOGSTROM 8-31-00 Date Print Name R. G. HOGSTROM
 Signature

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/30/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 233222
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
P.O. Box 53999, Phoenix, AZ 85072-7529 Expiration Date N/A
Address

4. Identification of System Reactor Coolant System, Line number 2PRCEL063, Spool 001.
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W'75 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RCS HL #2	Combustion Eng.	771-501	N/A	2PRCEL063	1980	Repaired	Yes

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg Nozzle Modification.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Perform RTD nozzle plugging modifications to spare RDT's 2JRCETW0121HA and 2JRCETW0121HC. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00229.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. P. Borday, Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. P. Borday
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEL063 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 233223
 6. Original Construction Code Edition ASME SETION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1974 ADDENDA
 8. Work Description RTD nozzle plugging modification of 2JRCETW0121HD and 2JRCETW0121HB per the requirements of engineering DMWO 219026 and EDC 2000-00230.

9. ☐ ISI Flaw

NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

Modification work to be performed per engineering requirements specified in DMWO 219026 and EDC 2000-00230.

11. Repair/Replacement Work Organization Arizona Public Service

12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, 1974 Ed., Summer 1974 Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, 1974 Ed., Winter 1975 Addenda

14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☐ YES

☒ NO

Initial 8/30/00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

Initial 8/30/00 If required, include a step in the W.O. for ISI & ANII Inspection.

- Initial 8/30/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

- Initial 8/30/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCETW0121HD	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----
2JRCETW0121HB	APN 00062036	N/A	<u>NX0911HK</u>	MR# <u>460015</u>
(RTD Plug)	-----	-----	-----	-----

19. Planner

Signature

8/30/00
Date

Print Name Herbert L. Green

20. ISI Engineer

Signature

8/31/00
Date

Print Name R. P. INDAP

21. ANII

Signature

8-31-00
Date

Print Name R. G. HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/30/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 233223
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
P.O. Box 53999, Phoenix, AZ 85072-7529 Expiration Date N/A
Address
4. Identification of System Reactor Coolant System, Line number 2PRCEL063, Spool 001.
5. (a) Applicable Construction Code ASME Section III 19 74 Edition, W'75 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RCS HL #2	Combustion Eng.	771-501	N/A	2PRCEL063	1980	Repaired	Yes

7. Description of Work Perform ASME Class 1 welds (2) per DMWO 219029, Hot Leg Nozzle Modification

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Perform RTD nozzle plugging modifications to spare RDT's 2JRCETW0121HB and 2JRCETW0121HD. Modifications performed per engineering requirements specified in DMWO 219026 and EDC 2000-00230.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed RP Fordap Consulting Met. Engineer Date 10-24-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-31-00 to 10-25-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Robert J. Fordap Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-25-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
8. Work Description OFF SITE TESTING AND REWORK PER WORK ORDER W.O. 240046.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

THE VALVE BEING ROTATED TO FACILITATE TESTING: THE REPLACEMENT VALVE IS
SN#BY14537. Replacements are part of routine maintenance RPR
10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0200	APN#45490005	20339-1	VX1474AK	PO#60257948
BELLOWS				
DISC NUT			41182	PO#60257948
FLANGE			223906	PO#60257948
FLANGE ADAPTER			501308	PO#60257948

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
201 S. HIGHLAND SPRINGS BEAUMONT CA 92223 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
BELLOWS	DRESSER	20339-1	N/A	2JRCEPSV200	1998	Replacement	No
DISC NUT	DRESSER	N/A	N/A	2JRCEPSV200	1998	Replacement	No
FLANGE	DRESSER	N/A	N/A	2JRCEPSV200	1998	Replacement	No
FLANGE ADAPT	DRESSER	N/A	N/A	2JRCEPSV200	1998	Replacement	No

7. Description of Work REPLACE VALVE BELLOWS, DISC NUT, FLANGE, & FLANGE ADAPTER.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 240046 VALVE HAD BELLOWS, DISC NUT, FLANGE, & FLANGE ADAPTER
REPLACE. (2JRCEPSV0200 SN#BY14537).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date _____

Signed [Signature], Consulting met. Engineer Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
8. Work Description OFF SITE TESTING AND REWORK PER WORK ORDER W.O. 240046.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING: THE REPLACEMENT VALVE IS
SN#BQ07679. Replacements are part of routine maintenance. RPS 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0201	45020245	AAD19	1990X2	PO#33207018
DISC				
BELLOWS	45490005	FX40B5045	94989	PO#500236360
SPINDLE	45560002	SA347	676811	PO#33207018
DISC HOLDER	45170036	OM3		PO#500236360

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	AAD19	N/A	2JRCEPSV201	1998	Replacement	No
BELLOWS	DRESSER	FX40B5045	N/A	2JRCEPSV201	1998	Replacement	No
SPINDLE	DRESSER	SA347	N/A	2JRCEPSV201	1998	Replacement	No
DISC HOLDER	DRESSER	OM3	N/A	2JRCEPSV201	1998	Replacement	No

7. Description of Work REPLACE VALVE DISC, BELLOWS, SPINDLE, & DISC HOLDER.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 240046 HAD VALVE DISC, BELLOWS, SPINDLE, & DISC HOLDER REPLACE.
(2JRCEPSV0201 SN#BQ07679).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date _____

Signed RP Jordan Consulting Met. Eng. Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

RP Jordan Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
8. Work Description OFF SITE TESTING AND REWORK PER WORK ORDER W.O. 240046.

9. ☐ ISI Flaw

NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

THE VALVE BEING ROTATED TO FACILITATE TESTING: THE REPLACEMENT VALVE IS
AN#BQ07678. Replacements are part of routine maintenance. RPT 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required.

☐ YES

☒ NO

MBN 10/13/00
Initial Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

MBN 10/13/00
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

MBN 10/13/00
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

MBN 10/13/00
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0202	45020245	ABC74	L3181	PO#3320718
DISC				
BELLOWS	45490005	FX40B5044	94984	PO#500230360
SPINDLE	45560002	A10014	676811	PO#33267018
BEARING	45601845			PO#60255533

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date

21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number
3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
Authorization No. N/A
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Expiration Date N/A
Address
4. Identification of System RC ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	ABC74	N/A	2JRCEPSV202	1998	Replacement	No
BELLOWS	DRESSER	FX40B5044	N/A	2JRCEPSV202	1998	Replacement	No
SPINDLE	DRESSER	A10014	N/A	2JRCEPSV202	1998	Replacement	No
BEARING	DRESSER	45001845	N/A	2JRCEPSV202	1998	Replacement	No

7. Description of Work REPLACE VALVE DISC, BELLOWS, SPINDLE, & BEARING.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 240046 VALVE HAD REPLACE VALVE DISC, BELLOWS, SPINDLE, & BEARING.
(2JRCEPSV0202 SN#BQ07678).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date _____

Signed

Robert J. Bradley Consulting Met. Eng.
Owner or Owner's Designee, Title

Date 10-13-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Robert J. Bradley
Inspector's Signature

Commissions NB 9685 "N" "I" Az 264
National Board, State, Province, and Endorsements

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 240046
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description OFF SITE TESTING AND REWORK PER WORK ORDER W.O. 240046.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING: THE REPLACEMENT VALVE IS
SN#BY14538. Replacement is a part of routine maintenance. RBT 10-13-00

11. Repair/Replacement Work Organization WYLE LAB WESTERN SERVICE CENTER
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10/13/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/13/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/13/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0203	APN#43550622	N/A	HYD	470526

19. Planner Michael B. Newell 10/13/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-13-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-17-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 240046
Address Work Order Number

3. Work Performed by WYLE LAB WESTERN SERVICE CENTER Type Code Symbol Stamp None
Name
Authorization No. N/A
201 S. HIGHLAND SPRINGS BEAUMONT CA, 9222 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PIPE CAP	N/A	N/A	N/A	2JRCEPSV203	2000	Replacement	No

7. Description of Work REPLACE VALVE DRAIN NIPPLE PIPE CAP.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 240046 VALVE HAD PIPE CAP ON DRAIN NIPPLE REPLACE. (2JRCEPSV0203 SN#145538).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

R. P. Hordge, Consulting Met. Eng.
Owner or Owner's Designee, Title

Date 10-13-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 10-17-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. P. Hordge
Inspector's Signature

Commissions

NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 10-17-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAHV0184 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM ATMOSPHERIC DUMP VALVE
 4. N-5 Package Number 2SG04-9 5. W.O. Number 242258
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE, INSPECT AND REWORK TO CORRECT A STICKING PROBLEM DURING VALVE STROKING.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NOT A PRESSURE BOUNDARY FAILURE. THE VALVE PLUG IS BEING REPLACED WITH A
VENDOR SPARE DUE TO A LINEAR INDICATION OF SEAT SURFACE. EXISTING PLUG WILL BE
REWORK AT A LATER TIME.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., W'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III, CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
DMG 10/23/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 10/23/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 10/23/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 10/23/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

□□□□ I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
VALVE PLUG	924102059XX	N/A	28672	ROS# 90385836

19. Planner David Goodlet 10-23-00 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Alan Morrow 10/23/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert Hogstrom 10-23-00 Print Name ROBERT HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/23/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 242258
Address Work Order Number
3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD., TONOPAH, AZ. 85354 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "SG" - MAIN STEAM
5. (a) Applicable Construction Code ASME III, CLASS 2 19 74 Edition, W'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PLUG	CCI	N/A	N/A	2JSGAHV0184	1994	Replacement	No

7. Description of Work VALVE DISASSEMBLY & REWORK TO CORRECT STICKING.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 242258, DISASSEMBLY OF VALVE 2JSGAHV0184 TO INSPECT FOR STICKING PROBLEM. REPLACED PLUG, SEAT RING AND PISTON RING.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. P. Indap, Consulting Met. Engineer Date 10-31-2000
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-23-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. P. Indap
Inspector's Signature

Commissions NS 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 10-31-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAUV0500S 2. Code Class ASME III, CLASS 2
 3. Item Description 6"-900# PRESSURE SEAL GATE VALVE
 4. N-5 Package Number 2SG02-1A 5. W.O. Number 243062
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDUM
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE VALVE FOR PACKING REPLACEMENT AND DECON. BROKE OFF BOLTS IN BONNET DURING DISASSEMBLY. FOR EASE OF REASSEMBLY WILL USE NEW UNCONTAMINATED BONNET..

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NOT A PRESSURE BOUNDARY FAILURE. BONNET IS BEING REPLACED FOR EASE OF REASSEMBLY AND TO REDUCE CONTAMINATED COMPONENTS IN THIS VALVE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 EDITION, S'1975 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III, CLASS 2, 1974 EDITION, W'1975 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/28/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/28/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 10/28/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 10/28/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
VALVE BONNET		229H-3	K171	PL0433129

19. Planner David Goodlet 10-28-00 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert Hogstrom 10-29-00 Print Name ROBERT HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 243062
Address Work Order Number
3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD., TONOPAH, AZ. 85354 Expiration Date N/A
Address
4. Identification of System "SG" - MAIN STEAM
5. (a) Applicable Construction Code ASME III, CLASS 2, 1974 Edition, S'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
BONNET	Anchor/Darling	229H-3		2JSGAUV500S	2000	Replacement	Yes

7. Description of Work VALVE DISASSEMBLY FOR REPACK AND DECON.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

Component ID 2JEWALV0091 2. Code Class ASME SECT III CL3, 74 ED, W75 ADD
 3. Item Description ECWS SURGE TANK A LEVEL MAKEUP VALVE
 4. N-5 Package Number 2EW01-3 5. W.O. Number 00-904343
 6. Original Construction Code Edition ASME SECT III CL3, 74 ED, W75 ADD
 7. Original Installation Code Edition ASME SECT III CL3, 74 ED, W75 ADD

8. Work Description Internal rework and or replacement of valve internals to correct valve seat leakage.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
No weld failure involved, or no failure in the ASME pressure boundary
R.P. Indap 2/8/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction Code/Edition ASME SECT III CL3, 74 ED, W75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT III CL3, 74 ED, W75 ADD
 14. ASME Section XI Code/Edition 1992 EDITION and 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
REO 1-31-00 If required, include a step in the W.O. to perform Preservice Inspection..
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
REO 1-31-00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

REO 1-31-00 17. Include a step in the W.O. to complete an NIS-2 Form prior to releasing the Component
 Initial Date

REO 1-31-00 18. Include a step in the W.O. to record below, all applicable numbers for repaired or
 Initial Date replaced items

COMP ID	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.

19. Planner [Signature] 1-31-00 Print Name G. Osmundson
 Signature Date
 20. ISI Engineer [Signature] 2-08-00 Print Name R. P. INDAP
 Signature Date
 21. ANII [Signature] 2-8-00 Print Name R. G. HUGSTON
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et al. Date _____
Name
- P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet _____ of _____
Address
2. Plant Palo Verde Nuclear Generating Station Unit _____
Name
- 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Repair Organization P.O. No., Job No., etc. _____
Address
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
Same as Above (Item #2) Expiration Date N/A
Address
4. Identification of System _____
5. (a) Applicable Construction Code ASME III, Class 3 19 74 Edition, 75 Addenda -- Code Case _____
 (b) Applicable Edition of Section XI Utilized for Repairs or replacements 19 92 Edition 1992 Addenda _____
6. Identification of Components Repaired or Replaced and Replacement components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced Or Replacement	ASME Code Stamped (Yes or No)
Body			N/A				
bonnet	Target Rock				1978	Repaired	Yes
2JEWALV	Rock						
V0091							
VALVE	TARGET ROCK	76H4001-S	N/A	2JEWALV091	1978	REPLACEMENT	Yes

7. Description of Work Body to bonnet tackwelds after reassembly
8. Test Conducted:: Hydrostatic ☐ Pneumatic ☐ Nominal operating Pressure ☐ N-416-1 ☐
- Exempt ☒ Other ☐ Pressure _____ PSI Test temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information, (items 1 through 6 of this report) is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

REMARKS

Valve disassembled to correct seat leakage,
~~and reassembled~~ performed body to bonnet tack welds
 after reassembly.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and this
Replacement Conforms to the rules of the ASME Code, Section XI.

Repair or replacement

Type Code Symbol Stamp N/A

Certificate Of Authorization No. N/A Expiration Date N/A

Signed _____ Date _____
Owner or Owner's Designee, Title

CERTIFICATION OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the national board of boiler and pressure vessel inspectors and the state or province of Arizona and employed by HSBI & CO. of Hartford Connecticut, have inspected the Components described in this owner's report during the period _____ to _____, And state that to the best of my knowledge and belief, the owner has performed examinations and taken corrective measures described in this owner's report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this owner's 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.

Inspector's signature

Commissions

National Board, State, Province, and Endorsements

Date _____ 20 _____

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PRCEV236 2. Code Class ASME SECTION III CLASS 1
3. Item Description BYPASS VALVE 2PRCEV236 FOR 2JRCEPV0100E
4. N-5 Package Number 2RC01-1A 5. W.O. Number 914969
6. Original Construction Code Edition 1974 EDITION & 1976 SUMMER
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description REPLACE BROKEN PLUG STEM ASSEMBLY IAW CMWO#914969.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACEMENT IS REQUIRED AS IDENTIFIED BY VISUAL INSPECTION UNDER
CMWO#914619.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1976 SUMMER
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO

MB 02/11/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

MB 02/11/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MB 02/11/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MB 02/11/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
PLUG/SEAT RING	160408			
ASSY				

9. Planner Michael B Newell 02/11/00 Print Name MICHAEL B NEWELL
Signature Date
20. ISI Engineer Alan Morrow 2/11/00 Print Name Alan Morrow
Signature Date
21. ANII Robert G. Hogstrom 2-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/10/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#914969
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name
5801 S. WINTERBURG RD. TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SEC III, CLASS 1
5. (a) Applicable Construction Code SEC III, CLASS 1 1974 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
PLUG/SEAT RING ASSY	ITT HAMMELDAHL		N/A	2PRCEV236	1978	Replacement	NO

7. Description of Work REPLACE PLUG/SEAT RING ASSY.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 914969.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed _____

Date _____

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period _____ to _____, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Commissions _____

Inspector's Signature _____

National Board, State, Province, and Endorsements

Date _____ 19____

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01A 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924605
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924605.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACEMENT REQUIRED AFTER ENGINEERING INSPECTION.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.
 15. Preservice Inspection Required. ☒ YES ☐ NO

MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO

MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADAPTER SEAL HS.	8000-307-001-C007	Q99-A861-SN7	CS7	N/A
2MRCEP01A				

19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 6-21-00 Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924605
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL HOUSING	SULZER BINGHAM	Q99-A861-SN7	N/A	2MRCEP01A	1984	Replacement	

7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
 Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924606
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924606.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACEMENT REQUIRED AFTER ENGINEERING INSPECTION.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☒ YES ☐ NO

- MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO

- MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADAPTER SEAL HS.	8000-307-001-C007	Q99-A861-SN7	CS7	N/A
2MRCEP01B				

19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924606
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL HOUSING	SULZER BINGHAM	Q99-A861-SN7	N/A	2MRCEP01B	1984	Replacement	

7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
 Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01C 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924607
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924607.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACEMENT REQUIRED AFTER ENGINEERING INSPECTION.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.
 15. Preservice Inspection Required. ☒ YES ☐ NO

MB 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO

MB 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MB 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MB 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADAPTER SEAL HS.	8000-307-001-C007	Q99-A861-SN7	CS7	N/A
2MRCEP01C				

19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6/21/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 6-21-00 Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924607
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL HOUSING	SULZER BINGHAM	Q99-A861-SN7	N/A	2MRCEP01C	1984	Replacement	

7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
 Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 2RC02-4 5. W.O. Number 00924608
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL ADAPTER SEAL HOUSING (TOP HAT) AS DEEMED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#924608.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACEMENT REQUIRED AFTER ENGINEERING INSPECTION.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☒ YES ☐ NO

- MBN 06/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO

- MBN 06/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- MBN 06/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- MBN 06/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADAPTER SEAL HS.	8000-307-001-C007	Q99-A861-SN7	CS7	N/A
2MRCEP01D				

19. Planner Michael B. Newell 06/20/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 6/21/00 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 6-21-00 Print Name R.G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/20/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.# 924608
Address Work Order Number
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH ARIZONA Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL HOUSING	SULZER BINGHAM	Q99-A861-SN7	N/A	2MRCEP01D	1984	Replacement	

7. Description of Work REPLACEMENT OF ADAPTER SEAL HOUSING.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ N-416-1 ☐
 Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV787 2. Code Class ASME SEC. III CL.1
3. Item Description 1" CHECK VALVE
4. N-5 Package Number 2CH14-2 5. W.O. Number 00928219
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description BODY TO BONNET SEAL WELD REPLACEMENT DUE TO CHECK VALVE INSPECTION PROGRAM
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACED DUE TO CHECK VALVE INSPECTION
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☒ NO

JSB 05/30/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

JSB 05/30/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JSB 05/30/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

JSB 05/30/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
N/A	N/A	N/A	N/A	N/A

19. Planner J. Boulanger 05/30/00 Print Name J. BOULANGER
Signature Date
20. ISI Engineer DOUG HANSEN 05/30/00 Print Name DOUG HANSEN
Signature Date
21. ANII BOB HOGSTROM 05/30/00 Print Name BOB HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 05/24/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00928219
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name Authorization No. N/A
P.O. Box 53999, Phoenix, Arizona 85072-2034 Expiration Date N/A
Address
4. Identification of System CH, Chemical Volume Control System ASME Sec. III Cl. 1
5. (a) Applicable Construction Code Sec. III Cl. 1 1974 Edition, w'75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
CHECK VALVE	Borg Warner	57650	N/A	2PCHNV787	1980	Replaced	Yes

7. Description of Work Replaced body to bonnet seal weld due to check valve inspection program.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Body to bonnet seal weld replaced due to check valve inspection program. WO# 928219
SWMS WO# 238322

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R.L. BROWNING RLB ISI ENG Date 10/14/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-30-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R.L. Browning Commissions NS 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
 Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

Component ID 2PCHNV802 2. Code Class ASME SEC. III CL1.

3.	Item Description	1" CHECK VALVE
----	------------------	----------------

4. N-5 Package Number 2CH14-2 5. W.O. Number 00930036

6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.

7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.

8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE
INSPECTION PROGRAM.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
WORK REQUIRED FOR VALVE DISASSEMBLY TO ALLOW FOR CHECK VALVE
INSPECTION.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO

Initial ACB Date 05/31/00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

Initial Date 05/31/00 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Date 03/31/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial LS Date 05/31/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

[illegible]

19. Planner J. C. Boulanger 05/31/00 Print Name JIM BOULANGER
Signature Date

20. ISI Engineer DAH- 6-6-00 Print Name DOUG HANSEN
Signature _____ Date _____

21. ANII Bob Hogstrom 6-6-00 Print Name BOB HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 05/31/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00930036
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et al. Type Code Symbol Stamp None
Name Authorization No. N/A
P.O. Box 53999, Phoenix, Arizona 85072-2034 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL 1
5. (a) Applicable Construction Code Section III, CL 1 1974 Edition, W'75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Borg Warner	57651	N/A	2PCHNV802	1980	Replaced	Yes

7. Description of Work Replaced the Body to Bonnet Seal Weld for IST inspection

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Body to bonnet seal weld replaced due to check valve inspection program. WO# 930036

SWMS WO 240134

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

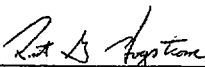
Expiration Date N/A

Signed  ISI ENGINEER Date 10-14-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-6-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.


Inspector's Signature

Commissions NB 9685 "N" "I" Az-264
National Board, State, Province, and Endorsements

Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV866 2. Code Class ASME SEC. III CL1.

3. Item Description 1" CHECK VALVE

4. N-5 Package Number 2CH14-2 5. W.O. Number 00930563

6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.

7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.

8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE
INSPECTION PROGRAM.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
WORK REQUIRED FOR VALVE DISASSEMBLY TO ALLOW FOR CHECK VALVE
INSPECTION.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO

Initial 05/31/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO


463 05/31/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

Initial fb Date 03/31/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 05/31/00 Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

[illegible]

19. Planner  05/31/00 Print Name JIM BOULANGER
Signature, Date

20. ISI Engineer ✓ DBH 6-6-00 Print Name DOUG HANSEN
Signature Date

21. ANII Bob Hogstrom 6-6-00 Print Name BOB HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 05/31/00
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00930563
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et al. Type Code Symbol Stamp None
Name Authorization No. N/A
P.O. Box 53999, Phoenix, Arizona 85072-2034 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL 1
5. (a) Applicable Construction Code Section III, CL 1 1974 Edition, W'75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
neck Valve	Borg Warner	57654	N/A	2PCHNV866	1980	Replaced	Yes

7. Description of Work Replaced the Body to Bonnet Seal Weld for IST inspection

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Body to bonnet seal weld replaced due to check valve inspection program. WO#930563

SUMS WO #

240661

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R.L. BROWNING R.L.B. ISI ENG

Owner or Owner's Designee, Title

Date 12/14/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-6-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R.L. Browning
Inspector's Signature

Commissions SB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 14 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
3. Item Description STEAM GENERATOR #1
4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304778
6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A COLD LEG TUBES PER ENG-DFWO 2304440 EVALUATION AND DISPOSITION.
9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
Report Number 2R09 EDDY CURRENT EXAM. REPORT
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304440.
11. Repair/Replacement Work Organization CE
12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required.

☐ YES

☒ NO

RDP 9/21/00
Initial Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

aw 09/19/00
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

aw 09/19/00
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

aw 09/19/00
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Alex P. Waicelunas 9-19-00 Print Name ALEX P. WAICELUNAS
Signature Date

J. ISI Engineer Ramakant P. Indap 9/21/00 Print Name RAMAKANT P. INDAP
Signature Date

21. ANII Robert G. Hogstrom 9-21-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2304778
Address Work Order Number

3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
911 W. Main St., Chattanooga, TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79273-1	NA	2MRCEE01A	1979	Repaired	Yes
Tube Plugs	CE	*	NA	*	2000	Replacement	No

7. Description of Work Plug SG (2MRCEE01A) Cold Leg tubes per DIWO 2304778. See attached list.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See DFWO 2304440 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. Pondap, Consulting Met. Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-02-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. L. Hystrom

Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01A "COLD LEG"

WORK ORDER 2304778

ASME SECTION XI – REPAIR / REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01A R67 / L12	0307-1601	8797	J-9161-5	470466
2MRCEE01A R120 / L49	0307-1601	8800	J-9161-5	470466
2MRCEE01A R43 / L50	0307-1601	8798	J-9161-5	470466
2MRCEE01A R120 / L59	0307-1601	8796	J-9161-5	470466
2MRCEE01A R39 / L64	0307-1601	8915	J-9161-5	470466
2MRCEE01A R43 / L70	0307-1601	8916	J-9161-5	470466
2MRCEE01A R68 / L75	0307-1601	8917	J-9161-5	470466
2MRCEE01A R140 / L77	0307-1601	8795	J-9161-5	470466
2MRCEE01A R116 / L79	0307-1601	8918	J-9161-5	470466
2MRCEE01A R75 / L80	0307-1601	8919	J-9161-5	470466
2MRCEE01A R125 / L80	0307-1601	8920	J-9161-5	470466
2MRCEE01A R61 / L82	0307-1601	8921	J-9161-5	470466
2MRCEE01A R127 / L86	0307-1601	8922	J-9161-5	470466
2MRCEE01A R133 / L86	0307-1601	9099	J-9161-5	470466
2MRCEE01A R73 / L88	0307-1601	9100	J-9161-5	470466
2MRCEE01A R113 / L90	0307-1601	8794	J-9161-5	470466
2MRCEE01A R80 / L95	0307-1601	8913	J-9161-5	470466
2MRCEE01A R133 / L102	0307-1601	8905	J-9161-5	470466
2MRCEE01A R124 / L107	0307-1601	8904	J-9161-5	470466
2MRCEE01A R49 / L112	0307-1601	8903	J-9161-5	470466
2MRCEE01A R144 / L117	0307-1601	8907	J-9161-5	470466
2MRCEE01A R63 / L118	0307-1601	8908	J-9161-5	470466
2MRCEE01A R135 / L118	0307-1601	8909	J-9161-5	470466
2MRCEE01A R63 / L120	0307-1601	8910	J-9161-5	470466

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

2MRCEE01A R134 / L123	0307-1601	8902	J-9161-5	470466
2MRCEE01A R65 / L124	0307-1601	8906	J-9161-5	470466
2MRCEE01A R135 / L124	0307-1601	8911	J-9161-5	470466
2MRCEE01A R125 / L126	0307-1601	8912	J-9161-5	470466
2MRCEE01A R122 / L131	0307-1601	8901	J-9161-5	470466
2MRCEE01A R110 / L145	0307-1601	8914	J-9161-5	470466
2MRCEE01A R9 / L184	0307-1601	8793	J-9161-5	470466
2MRCEE01A R6 / L189	0307-1601	8799	J-9161-5	470466
2MRCEE01A R104 / L39	0307-1601	9962	J-9162-2	470466
2MRCEE01A R114 / L45	0307-1601	8740	J-9161-5	470466
2MRCEE01A R129 / L46	0307-1601	9969	J-9162-2	470466
2MRCEE01A R126 / L49	0307-1601	9963	J-9162-2	470466
2MRCEE01A R101 / L50	0307-1601	9965	J-9162-2	470466
2MRCEE01A R107 / L50	0307-1601	9966	J-9162-2	470466
2MRCEE01A R89 / L52	0307-1601	9964	J-9162-2	470466
2MRCEE01A R127 / L56	0307-1601	9970	J-9162-2	470466
2MRCEE01A R89 / L60	0307-1601	9967	J-9162-2	470466
2MRCEE01A R125 / L68	0307-1601	8750	J-9161-5	470466
2MRCEE01A R73 / L144	0307-1601	8749	J-9161-5	470466
2MRCEE01A R75 / L162	0307-1601	8739	J-9161-5	470466
2MRCEE01A R79 / L162	0307-1601	9968	J-9162-2	470466
2MRCEE01A R36 / L21	0307-1601	9787	J-9162-2	470466
2MRCEE01A R69 / L24	0307-1601	9782	J-9162-2	470466
2MRCEE01A R104 / L25	0307-1601	9786	J-9162-2	470466
2MRCEE01A R127 / L40	0307-1601	9788	J-9162-2	470466
2MRCEE01A R97 / L50	0307-1601	9781	J-9162-2	470466
2MRCEE01A R70 / L65	0307-1601	9783	J-9162-2	470466

STEAM GENERATOR 2MRCEE01A
"COLD LEG"

2MRCEE01A R147 / L102	0307-1601	9778	J-9162-2	470466
2MRCEE01A R124 / L117	0307-1601	9779	J-9162-2	470466
2MRCEE01A R136 / L125	0307-1601	9777	J-9162-2	470466
2MRCEE01A R141 / L128	0307-1601	9776	J-9162-2	470466
2MRCEE01A R89 / L132	0307-1601	9772	J-9162-2	470466
2MRCEE01A R124 / L133	0307-1601	9774	J-9162-2	470466
2MRCEE01A R142 / L133	0307-1601	9775	J-9162-2	470466
2MRCEE01A R110 / L153	0307-1601	9773	J-9162-2	470466
2MRCEE01A R70 / L155	0307-1601	9771	J-9162-2	470466
2MRCEE01A R3 / L56	0307-1601	9784	J-9162-2	470466
2MRCEE01A R69 / L64	0307-1601	9785	J-9162-2	470466

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #1
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304792
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01A HOT LEG TUBES PER ENG-DFWO 2304457
EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304457.

11. Repair/Replacement Work Organization CE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
RPB 9/21/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
an 09/19/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
an 09/19/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Alex Waicelunas 9-19-00 Print Name ALEX P. WAICELUNAS
Signature Date
 J. ISI Engineer Ramakant P. Indap 9/21/00 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 9-21-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2304792
Address Work Order Number

3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
911 W. Main St., Chattanooga, TN 37402 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79273-1	NA	2MRCEE01A	1979	Repaired	Yes
Tube Plugs	CE	*	NA	*	2000	Replacement	No

7. Description of Work Plug SG (2MRCEE01A) Hot Leg tubes per DIWO 2304792. See attached list.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See DFWO 2304457 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature], Consulting Met-Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

WORK ORDER 2304792

ASME SECTION XI – REPAIR / REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01A R67 / L12	0307-1601	9769	J-9162-2	470466
2MRCEE01A R120 / L49	0307-1601	9770	J-9162-2	470466
2MRCEE01A R43 / L50	0307-1601	9768	J-9162-2	470466
2MRCEE01A R120 / L59	0307-1601	9764	J-9162-2	470466
2MRCEE01A R39 / L64	0307-1601	9760	J-9162-2	470466
2MRCEE01A R43 / L70	0307-1601	9759	J-9162-2	470466
2MRCEE01A R68 / L75	0307-1601	9780	J-9162-2	470466
2MRCEE01A R140 / L77	0307-1601	9096	J-9161-5	470466
2MRCEE01A R116 / L79	0307-1601	9094	J-9161-5	470466
2MRCEE01A R75 / L80	0307-1601	9093	J-9161-5	470466
2MRCEE01A R125 / L80	0307-1601	9097	J-9161-5	470466
2MRCEE01A R61 / L82	0307-1601	9095	J-9161-5	470466
2MRCEE01A R127 / L86	0307-1601	9098	J-9161-5	470466
2MRCEE01A R133 / L86	0307-1601	9079	J-9161-5	470466
2MRCEE01A R73 / L88	0307-1601	9081	J-9161-5	470466
2MRCEE01A R113 / L90	0307-1601	9087	J-9161-5	470466
2MRCEE01A R80 / L95	0307-1601	9074	J-9161-5	470466
2MRCEE01A R133 / L102	0307-1601	9073	J-9161-5	470466
2MRCEE01A R124 / L107	0307-1601	9072	J-9161-5	470466
2MRCEE01A R49 / L112	0307-1601	9758	J-9162-2	470466
2MRCEE01A R144 / L117	0307-1601	9064	J-9161-5	470466
2MRCEE01A R63 / L118	0307-1601	9080	J-9161-5	470466
2MRCEE01A R135 / L118	0307-1601	9063	J-9161-5	470466
2MRCEE01A R63 / L120	0307-1601	9089	J-9161-5	470466

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

2MRCEE01A R134 / L123	0307-1601	9061	J-9161-5	470466
2MRCEE01A R65 / L124	0307-1601	9070	J-9161-5	470466
2MRCEE01A R135 / L124	0307-1601	9060	J-9161-5	470466
2MRCEE01A R125 / L126	0307-1601	9058	J-9161-5	470466
2MRCEE01A R122 / L131	0307-1601	9057	J-9161-5	470466
2MRCEE01A R110 / L145	0307-1601	9056	J-9161-5	470466
2MRCEE01A R9 / L184	0307-1601	9052	J-9161-5	470466
2MRCEE01A R6 / L189	0307-1601	9051	J-9161-5	470466
2MRCEE01A R104 / L39	0307-1601	9077	J-9161-5	470466
2MRCEE01A R114 / L45	0307-1601	9076	J-9161-5	470466
2MRCEE01A R129 / L46	0307-1601	9075	J-9161-5	470466
2MRCEE01A R126 / L49	0307-1601	9078-	J-9161-5	470466
2MRCEE01A R101 / L50	0307-1601	9086	J-9161-5	470466
2MRCEE01A R107 / L50	0307-1601	9091	J-9161-5	470466
2MRCEE01A R89 / L52	0307-1601	9085	J-9161-5	470466
2MRCEE01A R127 / L56	0307-1601	9092	J-9161-5	470466
2MRCEE01A R89 / L60	0307-1601	9082	J-9161-5	470466
2MRCEE01A R125 / L68	0307-1601	9088	J-9161-5	470466
2MRCEE01A R73 / L144	0307-1601	9055	J-9161-5	470466
2MRCEE01A R75 / L162	0307-1601	9053	J-9161-5	470466
2MRCEE01A R79 / L162	0307-1601	9054	J-9161-5	470466
2MRCEE01A R36 / L21	0307-1601	9762	J-9162-2	470466
2MRCEE01A R69 / L24	0307-1601	9763	J-9162-2	470466
2MRCEE01A R104 / L25	0307-1601	9767	J-9162-2	470466
2MRCEE01A R127 / L40	0307-1601	9766	J-9162-2	470466
2MRCEE01A R97 / L50	0307-1601	9765	J-9162-2	470466
2MRCEE01A R70 / L65	0307-1601	9084	J-9161-5	470466

STEAM GENERATOR 2MRCEE01A
"HOT LEG"

2MRCEE01A R147 / L102	0307-1601	9071	J-9161-5	470466
2MRCEE01A R124 / L117	0307-1601	9090	J-9161-5	470466
2MRCEE01A R136 / L125	0307-1601	9059	J-9161-5	470466
2MRCEE01A R141 / L128	0307-1601	9065	J-9161-5	470466
2MRCEE01A R89 / L132	0307-1601	9069	J-9161-5	470466
2MRCEE01A R124 / L133	0307-1601	9066	J-9161-5	470466
2MRCEE01A R142 / L133	0307-1601	9062	J-9161-5	470466
2MRCEE01A R110 / L153	0307-1601	9067	J-9161-5	470466
2MRCEE01A R70 / L155	0307-1601	9068	J-9161-5	470466
2MRCEE01A R3 / L56	0307-1601	9761	J-9162-2	470466
2MRCEE01A R69 / L64	0307-1601	9077	J-9161-5	470466
2MRCEE01A ** R38 / L93	0307-2801	FR-108	J-9161-5	466909

** Rail Plug installed at this location.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1

3. Item Description STEAM GENERATOR #2

4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304796

6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA

7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA

8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B COLD LEG TUBES PER ENG-DFWO 2304461 EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
Report Number 2R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304461.

11. Repair/Replacement Work Organization CE

12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
RPZ 9/21/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
an 09/19/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
an 09/19/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Alex Waicelunas 9-19-00 Signature Date Print Name ALEX P. WAICELUNAS

20. ISI Engineer RP Indap 9/21/00 Signature Date Print Name RAMAKANT P. INDAP

21. ANII Robert G. Hogstrom 9-21-00 Signature Date Print Name ROBERT G. HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2304796
Address Work Order Number
3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
911 W. Main St., Chattanooga, TN 37402 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Sect. III, Cl.1 19 71 Edition, W'73 Addenda, NA Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79273-2	NA	2MRCEE01B	1979	Repaired	Yes
Tube Plugs	CE	*	NA	*	2000	Replacement	No

7. Description of Work Plug SG (2MRCEE01B) Cold Leg tubes per DIWO 2304796. See attached list.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See DFWO 2304461 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Consulting Met-Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

WORK ORDER 2304796

ASME SECTION XI – REPAIR / REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01B R62 / L15	0307-1601	8759	J-9161-5	470466
2MRCEE01B R33 / L16	0307-1601	8758	J-9161-5	470466
2MRCEE01B R2 / L39	0307-1601	8751	J-9161-5	470466
2MRCEE01B R130 / L47	0307-1601	8757	J-9161-5	470466
2MRCEE01B R38 / L49	0307-1601	8754	J-9161-5	470466
2MRCEE01B R70 / L49	0307-1601	8899	J-9161-5	470466
2MRCEE01B R5 / L50	0307-1601	8898	J-9161-5	470466
2MRCEE01B R64 / L51	0307-1601	8766	J-9161-5	470466
2MRCEE01B R16 / L55	0307-1601	8762	J-9161-5	470466
2MRCEE01B R40 / L59	0307-1601	8752	J-9161-5	470466
2MRCEE01B R45 / L60	0307-1601	8753	J-9161-5	470466
2MRCEE01B R41 / L62	0307-1601	8767	J-9161-5	470466
2MRCEE01B R34 / L67	0307-1601	9121	J-9161-5	470466
2MRCEE01B R54 / L67	0307-1601	8923	J-9161-5	470466
2MRCEE01B R41 / L68	0307-1601	8935	J-9161-5	470466
2MRCEE01B R45 / L68	0307-1601	8933	J-9161-5	470466
2MRCEE01B R53 / L68	0307-1601	8929	J-9161-5	470466
2MRCEE01B R60 / L71	0307-1601	8936	J-9161-5	470466
2MRCEE01B R59 / L74	0307-1601	8928	J-9161-5	470466
2MRCEE01B R61 / L74	0307-1601	8946	J-9161-5	470466
2MRCEE01B R58 / L75	0307-1601	8943	J-9161-5	470466
2MRCEE01B R62 / L75	0307-1601	8938	J-9161-5	470466
2MRCEE01B R85 / L78	0307-1601	8941	J-9161-5	470466
2MRCEE01B R34 / L79	0307-1601	9110	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

2MRCEE01B R66 / L81	0307-1601	8942	J-9161-5	470466
2MRCEE01B R118 / L81	0307-1601	8927	J-9161-5	470466
2MRCEE01B R59 / L82	0307-1601	8934	J-9161-5	470466
2MRCEE01B R54 / L83	0307-1601	9144	J-9161-5	470466
2MRCEE01B R62 / L83	0307-1601	9131	J-9161-5	470466
2MRCEE01B R78 / L83	0307-1601	9138	J-9161-5	470466
2MRCEE01B R82 / L83	0307-1601	8939	J-9161-5	470466
2MRCEE01B R59 / L84	0307-1601	9143	J-9161-5	470466
2MRCEE01B R81 / L84	0307-1601	9133	J-9161-5	470466
2MRCEE01B R78 / L85	0307-1601	9134	J-9161-5	470466
2MRCEE01B R66 / L87	0307-1601	9139	J-9161-5	470466
2MRCEE01B R82 / L87	0307-1601	9132	J-9161-5	470466
2MRCEE01B R54 / L91	0307-1601	9146	J-9161-5	470466
2MRCEE01B R59 / L92	0307-1601	9145	J-9161-5	470466
2MRCEE01B R62 / L93	0307-1601	9141	J-9161-5	470466
2MRCEE01B R71 / L96	0307-1601	9142	J-9161-5	470466
2MRCEE01B R78 / L97	0307-1601	9137	J-9161-5	470466
2MRCEE01B R60 / L99	0307-1601	9136	J-9161-5	470466
2MRCEE01B R61 / L102	0307-1601	9140	J-9161-5	470466
2MRCEE01B R54 / L103	0307-1601	9148	J-9161-5	470466
2MRCEE01B R73 / L106	0307-1601	9147	J-9161-5	470466
2MRCEE01B R71 / L108	0307-1601	8791	J-9161-5	470466
2MRCEE01B R43 / L110	0307-1601	8780	J-9161-5	470466
2MRCEE01B R78 / L111	0307-1601	8792	J-9161-5	470466
2MRCEE01B R88 / L111	0307-1601	8769	J-9161-5	470466
2MRCEE01B R152 / L111	0307-1601	9113	J-9161-5	470466
2MRCEE01B R64 / L113	0307-1601	8771	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

2MRCEE01B R72 / L113	0307-1601	8777	J-9161-5	470466
2MRCEE01B R94 / L113	0307-1601	8776	J-9161-5	470466
2MRCEE01B R64 / L115	0307-1601	8783	J-9161-5	470466
2MRCEE01B R57 / L116	0307-1601	8782	J-9161-5	470466
2MRCEE01B R41 / L118	0307-1601	8775	J-9161-5	470466
2MRCEE01B R53 / L118	0307-1601	8774	J-9161-5	470466
2MRCEE01B R55 / L118	0307-1601	8781	J-9161-5	470466
2MRCEE01B R59 / L118	0307-1601	8773	J-9161-5	470466
2MRCEE01B R59 / L120	0307-1601	8772	J-9161-5	470466
2MRCEE01B R63 / L120	0307-1601	8770	J-9161-5	470466
2MRCEE01B R54 / L121	0307-1601	9130	J-9161-5	470466
2MRCEE01B R63 / L122	0307-1601	9129	J-9161-5	470466
2MRCEE01B R67 / L122	0307-1601	9128	J-9161-5	470466
2MRCEE01B R16 / L129	0307-1601	9119	J-9161-5	470466
2MRCEE01B R38 / L129	0307-1601	9135	J-9161-5	470466
2MRCEE01B R57 / L130	0307-1601	9126	J-9161-5	470466
2MRCEE01B R28 / L131	0307-1601	9106	J-9161-5	470466
2MRCEE01B R29 / L132	0307-1601	9116	J-9161-5	470466
2MRCEE01B R56 / L133	0307-1601	9127	J-9161-5	470466
2MRCEE01B R48 / L137	0307-1601	9118	J-9161-5	470466
2MRCEE01B R29 / L138	0307-1601	9124	J-9161-5	470466
2MRCEE01B R40 / L141	0307-1601	9122	J-9161-5	470466
2MRCEE01B R46 / L145	0307-1601	9120	J-9161-5	470466
2MRCEE01B R59 / L146	0307-1601	9123	J-9161-5	470466
2MRCEE01B R17 / L148	0307-1601	8741	J-9161-5	470466
2MRCEE01B R17 / L176	0307-1601	9111	J-9161-5	470466
2MRCEE01B R113 / L148	0307-1601	9115	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

2MRCEE01B R113 / L150	0307-1601	9114	J-9161-5	470466
2MRCEE01B R20 / L165	0307-1601	9149	J-9161-5	470466
2MRCEE01B R49 / L16	0307-1601	8763	J-9161-5	470466
2MRCEE01B R95 / L28	0307-1601	8932	J-9161-5	470466
2MRCEE01B R104 / L47	0307-1601	8944	J-9161-5	470466
2MRCEE01B R105 / L50	0307-1601	8926	J-9161-5	470466
2MRCEE01B R70 / L53	0307-1601	8756	J-9161-5	470466
2MRCEE01B R131 / L56	0307-1601	8937	J-9161-5	470466
2MRCEE01B R114 / L59	0307-1601	8931	J-9161-5	470466
2MRCEE01B R41 / L60	0307-1601	8768	J-9161-5	470466
2MRCEE01B R17 / L62	0307-1601	8765	J-9161-5	470466
2MRCEE01B R140 / L65	0307-1601	8924	J-9161-5	470466
2MRCEE01B R142 / L65	0307-1601	8925	J-9161-5	470466
2MRCEE01B R20 / L71	0307-1601	9103	J-9161-5	470466
2MRCEE01B R157 / L78	0307-1601	8945	J-9161-5	470466
2MRCEE01B R138 / L79	0307-1601	8790	J-9161-5	470466
2MRCEE01B R146 / L81	0307-1601	9125	J-9161-5	470466
2MRCEE01B R126 / L85	0307-1601	8789	J-9161-5	470466
2MRCEE01B R44 / L91	0307-1601	8786	J-9161-5	470466
2MRCEE01B R43 / L92	0307-1601	8785	J-9161-5	470466
2MRCEE01B R153 / L98	0307-1601	9102	J-9161-5	470466
2MRCEE01B R115 / L100	0307-1601	8788	J-9161-5	470466
2MRCEE01B R117 / L100	0307-1601	8787	J-9161-5	470466
2MRCEE01B R45 / L102	0307-1601	8779	J-9161-5	470466
2MRCEE01B R41 / L106	0307-1601	8784	J-9161-5	470466
2MRCEE01B R29 / L112	0307-1601	8778	J-9161-5	470466
2MRCEE01B R141 / L126	0307-1601	9109	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

2MRCEE01B R132 / L127	0307-1601	9107	J-9161-5	470466
2MRCEE01B R67 / L10	0307-1601	8764	J-9161-5	470466
2MRCEE01B R68 / L11	0307-1601	8755	J-9161-5	470466
2MRCEE01B R102 / L53	0307-1601	8760	J-9161-5	470466
2MRCEE01B R57 / L58	0307-1601	8897	J-9161-5	470466
2MRCEE01B R107 / L62	0307-1601	8896	J-9161-5	470466
2MRCEE01B R104 / L63	0307-1601	8895	J-9161-5	470466
2MRCEE01B R118 / L65	0307-1601	8900	J-9161-5	470466
2MRCEE01B R67 / L94	0307-1601	8940	J-9161-5	470466
2MRCEE01B R140 / L109	0307-1601	9105	J-9161-5	470466
2MRCEE01B R126 / L119	0307-1601	9112	J-9161-5	470466
2MRCEE01B R81 / L124	0307-1601	8930	J-9161-5	470466
2MRCEE01B R127 / L128	0307-1601	9108	J-9161-5	470466
2MRCEE01B R120 / L129	0307-1601	9104	J-9161-5	470466
2MRCEE01B R48 / L43	0307-1601	8743	J-9161-5	470466
2MRCEE01B R90 / L145	0307-1601	9101	J-9161-5	470466
2MRCEE01B R73 / L154	0307-1601	9117	J-9161-5	470466
2MRCEE01B R6 / L155	0307-1601	8742	J-9161-5	470466
2MRCEE01B R24 / L165	0307-1601	9150	J-9161-5	470466
2MRCEE01B R12 / L19	0307-1601	9753	J-9162-2	470466
2MRCEE01B R37 / L44	0307-1601	9757	J-9162-2	470466
2MRCEE01B R91 / L46	0307-1601	9756	J-9162-2	470466
2MRCEE01B R134 / L57	0307-1601	9751	J-9162-2	470466
2MRCEE01B R144 / L67	0307-1601	9754	J-9162-2	470466
2MRCEE01B R127 / L80	0307-1601	9755	J-9162-2	470466
2MRCEE01B R42 / L81	0307-1601	9752	J-9162-2	470466
2MRCEE01B ** R9 / L118	0307-2801	FR-109	J-9161-5	466909

STEAM GENERATOR 2MRCEE01B
"COLD LEG"

2MRCEE01B ** R24 / L77	0307-2801	FR-110	J-9161-5	466909
2MRCEE01B * R3 / L10	0307-1601	8761	J-9161-5	470466

** Rail Plugs installed at these two locations.

* Rolled Plug re-installed at this location.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01B 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #2
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2304797
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL CE ROLL PLUGS IN 2MRCEE01B HOT LEG TUBES PER ENG-DFWO 2304464
EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 2R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENG-DFWO 2304464.

11. Repair/Replacement Work Organization CE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
SP 9/21/00 Initial Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
an 09/19/00 Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
an 09/19/00 Initial Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
an 09/19/00 Initial Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Alex Waicelunas 9-19-00 Signature Date Print Name ALEX P. WAICELUNAS
 20. ISI Engineer Ramakant P. Indap 9/21/00 Signature Date Print Name RAMAKANT P. INDAP
 21. ANII Robert G. Hogstrom 9-21-00 Signature Date Print Name ROBERT G. HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2304797
Address Work Order Number

3. Work Performed by ABB-CE Type Code Symbol Stamp None
Name
Authorization No. N/A
911 W. Main St., Chattanooga, TN 37402 Expiration Date N/A
Address

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 19 71 Edition, W'73 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79273-2	NA	2MRCEE01B	1979	Repaired	Yes
Tube Plugs	CE	*	NA	*	2000	Replacement	No

7. Description of Work Plug SG (2MRCEE01B) Hot Leg tubes per DIWO 2304797. See attached list.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks See DFWO 2304464 for tubes plugged (plugging list attached).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed [Signature] Consulting Met. Engineer Date 11-01-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
(Inspector's Signature)

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2000

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

WORK ORDER 2304797

ASME SECTION XI – REPAIR / REPLACEMENT				
COMP. ID	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
2MRCEE01B R62 / L15	0307-1601	9958	J-9162-2	470466
2MRCEE01B R33 / L16	0307-1601	9959	J-9162-2	470466
2MRCEE01B R2 / L39	0307-1601	9956	J-9162-2	470466
2MRCEE01B R130 / L47	0307-1601	8947	J-9161-5	470466
2MRCEE01B R38 / L49	0307-1601	8869	J-9161-5	470466
2MRCEE01B R70 / L49	0307-1601	8872	J-9161-5	470466
2MRCEE01B R5 / L50	0307-1601	8854	J-9161-5	470466
2MRCEE01B R64 / L51	0307-1601	8855	J-9161-5	470466
2MRCEE01B R16 / L55	0307-1601	8859	J-9161-5	470466
2MRCEE01B R40 / L59	0307-1601	8870	J-9161-5	470466
2MRCEE01B R45 / L60	0307-1601	8856	J-9161-5	470466
2MRCEE01B R41 / L62	0307-1601	8857	J-9161-5	470466
2MRCEE01B R34 / L67	0307-1601	8847	J-9161-5	470466
2MRCEE01B R54 / L67	0307-1601	8851	J-9161-5	470466
2MRCEE01B R41 / L68	0307-1601	8865	J-9161-5	470466
2MRCEE01B R45 / L68	0307-1601	8858	J-9161-5	470466
2MRCEE01B R53 / L68	0307-1601	8860	J-9161-5	470466
2MRCEE01B R60 / L71	0307-1601	8950	J-9161-5	470466
2MRCEE01B R59 / L74	0307-1601	8853	J-9161-5	470466
2MRCEE01B R61 / L74	0307-1601	8949	J-9161-5	470466
2MRCEE01B R58 / L75	0307-1601	8864	J-9161-5	470466
2MRCEE01B R62 / L75	0307-1601	8948	J-9161-5	470466
2MRCEE01B R85 / L78	0307-1601	8871	J-9161-5	470466
2MRCEE01B R34 / L79	0307-1601	8866	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

2MRCEE01B R66 / L81	0307-1601	8873	J-9161-5	470466
2MRCEE01B R118 / L81	0307-1601	8874	J-9161-5	470466
2MRCEE01B R59 / L82	0307-1601	8875	J-9161-5	470466
2MRCEE01B R54 / L83	0307-1601	8876	J-9161-5	470466
2MRCEE01B R62 / L83	0307-1601	8877	J-9161-5	470466
2MRCEE01B R78 / L83	0307-1601	8878	J-9161-5	470466
2MRCEE01B R82 / L83	0307-1601	8879	J-9161-5	470466
2MRCEE01B R59 / L84	0307-1601	8880	J-9161-5	470466
2MRCEE01B R81 / L84	0307-1601	8881	J-9161-5	470466
2MRCEE01B R78 / L85	0307-1601	8882	J-9161-5	470466
2MRCEE01B R66 / L87	0307-1601	8883	J-9161-5	470466
2MRCEE01B R82 / L87	0307-1601	8884	J-9161-5	470466
2MRCEE01B R54 / L91	0307-1601	9957	J-9162-2	470466
2MRCEE01B R59 / L92	0307-1601	8885	J-9161-5	470466
2MRCEE01B R62 / L93	0307-1601	8886	J-9161-5	470466
2MRCEE01B R71 / L96	0307-1601	8887	J-9161-5	470466
2MRCEE01B R78 / L97	0307-1601	8888	J-9161-5	470466
2MRCEE01B R60 / L99	0307-1601	9951	J-9162-2	470466
2MRCEE01B R61 / L102	0307-1601	8889	J-9161-5	470466
2MRCEE01B R54 / L103	0307-1601	8802	J-9161-5	470466
2MRCEE01B R73 / L106	0307-1601	8890	J-9161-5	470466
2MRCEE01B R71 / L108	0307-1601	8891	J-9161-5	470466
2MRCEE01B R43 / L110	0307-1601	8810	J-9161-5	470466
2MRCEE01B R78 / L111	0307-1601	8892	J-9161-5	470466
2MRCEE01B R88 / L111	0307-1601	8893	J-9161-5	470466
2MRCEE01B R152 / L111	0307-1601	8827	J-9161-5	470466
2MRCEE01B R64 / L113	0307-1601	8746	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

2MRCEE01B R72 / L113	0307-1601	8894	J-9161-5	470466
2MRCEE01B R94 / L113	0307-1601	9953	J-9162-2	470466
2MRCEE01B R64 / L115	0307-1601	9961	J-9162-2	470466
2MRCEE01B R57 / L116	0307-1601	8863	J-9161-5	470466
2MRCEE01B R41 / L118	0307-1601	8696	J-9161-5	470466
2MRCEE01B R53 / L118	0307-1601	8852	J-9161-5	470466
2MRCEE01B R55 / L118	0307-1601	8867	J-9161-5	470466
2MRCEE01B R59 / L118	0307-1601	8868	J-9161-5	470466
2MRCEE01B R59 / L120	0307-1601	8861	J-9161-5	470466
2MRCEE01B R63 / L120	0307-1601	9960	J-9162-2	470466
2MRCEE01B R54 / L121	0307-1601	8862	J-9161-5	470466
2MRCEE01B R63 / L122	0307-1601	9954	J-9162-2	470466
2MRCEE01B R67 / L122	0307-1601	9955	J-9162-2	470466
2MRCEE01B R16 / L129	0307-1601	8828	J-9161-5	470466
2MRCEE01B R38 / L129	0307-1601	8840	J-9161-5	470466
2MRCEE01B R57 / L130	0307-1601	8831	J-9161-5	470466
2MRCEE01B R28 / L131	0307-1601	8837	J-9161-5	470466
2MRCEE01B R29 / L132	0307-1601	8826	J-9161-5	470466
2MRCEE01B R56 / L133	0307-1601	8833	J-9161-5	470466
2MRCEE01B R48 / L137	0307-1601	8832	J-9161-5	470466
2MRCEE01B R29 / L138	0307-1601	8830	J-9161-5	470466
2MRCEE01B R40 / L141	0307-1601	8829	J-9161-5	470466
2MRCEE01B R46 / L145	0307-1601	8844	J-9161-5	470466
2MRCEE01B R59 / L146	0307-1601	8850	J-9161-5	470466
2MRCEE01B R17 / L148	0307-1601	8686	J-9161-5	470466
2MRCEE01B R17 / L176	0307-1601	8685	J-9161-5	470466
2MRCEE01B R113 / L148	0307-1601	8839	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

2MRCEE01B R113 / L150	0307-1601	8835	J-9161-5	470466
2MRCEE01B R20 / L165	0307-1601	8748	J-9161-5	470466
2MRCEE01B R49 / L16	0307-1601	8806	J-9161-5	470466
2MRCEE01B R95 / L28	0307-1601	8689	J-9161-5	470466
2MRCEE01B R104 / L47	0307-1601	8825	J-9161-5	470466
2MRCEE01B R105 / L50	0307-1601	8818	J-9161-5	470466
2MRCEE01B R70 / L53	0307-1601	8820	J-9161-5	470466
2MRCEE01B R131 / L56	0307-1601	8805	J-9161-5	470466
2MRCEE01B R114 / L59	0307-1601	8808	J-9161-5	470466
2MRCEE01B R41 / L60	0307-1601	8698	J-9161-5	470466
2MRCEE01B R17 / L62	0307-1601	8822	J-9161-5	470466
2MRCEE01B R140 / L65	0307-1601	8811	J-9161-5	470466
2MRCEE01B R142 / L65	0307-1601	8817	J-9161-5	470466
2MRCEE01B R20 / L71	0307-1601	8821	J-9161-5	470466
2MRCEE01B R157 / L78	0307-1601	8804	J-9161-5	470466
2MRCEE01B R138 / L79	0307-1601	8688	J-9161-5	470466
2MRCEE01B R146 / L81	0307-1601	8694	J-9161-5	470466
2MRCEE01B R126 / L85	0307-1601	8683	J-9161-5	470466
2MRCEE01B R44 / L91	0307-1601	8690	J-9161-5	470466
2MRCEE01B R43 / L92	0307-1601	8693	J-9161-5	470466
2MRCEE01B R153 / L98	0307-1601	8845	J-9161-5	470466
2MRCEE01B R115 / L100	0307-1601	8801	J-9161-5	470466
2MRCEE01B R117 / L100	0307-1601	8699	J-9161-5	470466
2MRCEE01B R45 / L102	0307-1601	8745	J-9161-5	470466
2MRCEE01B R41 / L106	0307-1601	8747	J-9161-5	470466
2MRCEE01B R29 / L112	0307-1601	8700	J-9161-5	470466
2MRCEE01B R141 / L126	0307-1601	8838	J-9161-5	470466

STEAM GENERATOR 2MRCEE01B
"HOT LEG"

2MRCEE01B R132 / L127	0307-1601	8841	J-9161-5	470466
2MRCEE01B R67 / L10	0307-1601	8809	J-9161-5	470466
2MRCEE01B R68 / L11	0307-1601	8816	J-9161-5	470466
2MRCEE01B R102 / L53	0307-1601	8812	J-9161-5	470466
2MRCEE01B R57 / L58	0307-1601	8815	J-9161-5	470466
2MRCEE01B R107 / L62	0307-1601	8824	J-9161-5	470466
2MRCEE01B R104 / L63	0307-1601	8819	J-9161-5	470466
2MRCEE01B R118 / L65	0307-1601	8813	J-9161-5	470466
2MRCEE01B R67 / L94	0307-1601	8684	J-9161-5	470466
2MRCEE01B R140 / L109	0307-1601	8848	J-9161-5	470466
2MRCEE01B R126 / L119	0307-1601	8744	J-9161-5	470466
2MRCEE01B R81 / L124	0307-1601	8846	J-9161-5	470466
2MRCEE01B R127 / L128	0307-1601	8834	J-9161-5	470466
2MRCEE01B R120 / L129	0307-1601	8842	J-9161-5	470466
2MRCEE01B R48 / L43	0307-1601	8836	J-9161-5	470466
2MRCEE01B R90 / L145	0307-1601	8843	J-9161-5	470466
2MRCEE01B R73 / L154	0307-1601	8691	J-9161-5	470466
2MRCEE01B R6 / L155	0307-1601	8687	J-9161-5	470466
2MRCEE01B R24 / L165	0307-1601	8692	J-9161-5	470466
2MRCEE01B R12 / L19	0307-1601	8803	J-9161-5	470466
2MRCEE01B R37 / L44	0307-1601	8807	J-9161-5	470466
2MRCEE01B R91 / L46	0307-1601	8823	J-9161-5	470466
2MRCEE01B R134 / L57	0307-1601	8814	J-9161-5	470466
2MRCEE01B R144 / L67	0307-1601	8697	J-9161-5	470466
2MRCEE01B R127 / L80	0307-1601	8695	J-9161-5	470466
2MRCEE01B R42 / L81	0307-1601	8849	J-9161-5	470466

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA09 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2317256
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Replace Defective Pressurizer Heater, Make Fillet Weld between Pressurizer Nozzle and new Heater Sleeve.

9. ☐ ISI Flaw

NDE Method of Flaw Detection N/A

Report Number N/A

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

Electrical Portion of Heater Failed, No Failure on ASME Pressure Retaining Boundary.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1, '74 Edition, '75 Winter Addenda

14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☐ YES

☒ NO

N/A
Initial

10/10/00
Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

N/A
Initial

10/10/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

KVS
Initial

10/10/00
Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

KVS
Initial

10/10/00
Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Heater	44450049	1K		468031

19. Planner

Karl V. Savage
Signature

10/10/00
Date

Print Name Karl V. Savage

20. ISI Engineer

Ramakant P. Indap
Signature

10/11/00
Date

Print Name Ramakant P. Indap

21. ANII

Robert G. Hogstrom
Signature

10-11-00
Date

Print Name Robert G. Hogstrom

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/10/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2317256
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/'73 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Heater	Watlow	1K	N/A	2MRCEA09	2000	Replacement	Do

7. Description of Work Replace Defective Pressurizer Heater, Make Fillet Weld between Pzr Nozzle and Htt

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
- Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2317256

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date N/A

Signed [Signature] ISI Engineer Date 10-22-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 10-22-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature] Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10-22-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0628 2. Code Class 1
3. Item Description SIT 2B CHECK VALVE LEAK LINE ISOLATION VALVE.
4. N-5 Package Number 2RC01-3 5. W.O. Number 2322156
6. Original Construction Code Edition ASME Section III, Class 1, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 75 Addenda
8. Work Description Leak off piping replacement is required when the valve is repacked per 13-PN-220.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
No failure in ASME boundary. R. P. INDAP 3/10/2000

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III, Cl 1, 1974 Ed., S 75 Add.
13. Repair/Replacement Activity Construction Code/Edition ASME Sect. III, Cl 1, 1974 Ed., W 75 Add.
14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 92 Addenda
15. Preservice Inspection Required. ☐ YES ☒ NO

- J. I. 09/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

- J. I. 09/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- J. I. 09/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

- J. I. 09/26/00 18. Include a step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
PIPE CAP	N/A	N/A	CH4	424679

19. Planner [Signature] 09/26/00 Print Name James I. Davis
Signature Date
20. ISI Engineer [Signature] 10-3-2000 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 10-3-00 Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/29/00
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2322156
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect. III, CI 1 19 74 Edition, S '75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Fisher Controls	6540508	4472	2JSIBUV0628	1979	Repaired	Yes
Pipe Cap	N/A	N/A	N/A	2JSIBUV0628	2000	Replacement	No

7. Description of Work Replaced the leakoff piping per the requirements of 13-PN-204

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work Order 2322156 replaced the leakoff piping.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed RL BROWNING RLB Date 10/29/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-3-00 to 10-29-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

RL Browning Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 29, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0576 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE, 1315 PSIG RATED (BS-08587)
 4. N-5 Package Number 2SG01-1A 5. W.O. Number 2325843
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of valve spindle during reconditioning/overhaul.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement spindle came from another spare valve (bs-08610). The replaced spindle was
Slightly bent. Replaced 10-10-2000

11. Repair/Replacement Work Organization Wyle laboratorie, Weastern Service Center.
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
DMG 10/10/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 10/10/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
DMG 10/10/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
DMG 10/10/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SPINDLE	NA	1G2509	NA	NA

19. Planner David M Goodlet 10-10-00 Print Name David Goodlet
 Signature Date
 20. ISI Engineer Ramakant Indap 10-10-00 Print Name Ramakant Indap
 Signature Date
 21. ANII Robert Hogstrom 10-10-00 Print Name Robert Hogstrom
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/10/00

P.O. Box 53999, Phoenix, Arizona 85072-2034

Address

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Name

Unit 2

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

Address

WO# 2325843

Work Order Number

3. Work Performed by Wyle lab., Western Service Center

Name

Type Code Symbol Stamp None

Authorization No. N/A

Beaumont, Ca. 92223

Address

Expiration Date N/A

4. Identification of System "SG" - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Spindle	Dresser	1G2509	NA	2JSGEP5V576	2000	Replacement	No

7. Description of Work REPLACED SPINDLE DURING VALVE OVERHAUL.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐

Pressure psi

Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2325843 documented the overhaul of safety valve 2JSGEPSV0576 at Wyle labs. The spindle was found slightly bent so it was replaced with a spindle removed from a spare valve (s/n# B08610).

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. P. Indrup Consulting Met-Engineer Date 10-13-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-10-00 to 10-14-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. P. Indrup
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 14, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB18 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2328915
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description Remove Plug From Heater Sleeve to Support Eddy-Current Test of the Sleeve, Install new Plug Fabricated in the PVNGS machine Shop.

9. ☐ ISI Flaw NDE Method of Flaw Detection N/A
 Report Number N/A

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No Failure on ASME Pressure Retaining Boundary.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Class 1,'74 Edition, '75 Winter Addenda
 14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
KVS 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Plug				

19. Planner Karl V. Savage 10/13/2000 Print Name Karl V. Savage
Signature Date
 20. ISI Engineer Ramakant P. Indap 10-13-00 Print Name Ramakant P. Indap
Signature Date
 21. ANII Robert G. Hogstrom 10-14-00 Print Name Robert G. Hogstrom
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/13/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2328915
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah Arizona, 85354-7529 Expiration Date N/A
Address
4. Identification of System RC, ASME Section III, Class 1
5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/'73 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PLUG						Replacement	

7. Description of Work Replace Pressurizer Heater Sleeve Plug. 2MRCEB18.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MCHNX01 2. Code Class ASME SEC. III CL.2

3. Item Description VOLUME CONTROL TANK

4. N-5 Package Number 2CH03-4A 5. W.O. Number 2332261

6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA

7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA

8. Work Description REPLACEMENT OF TANK MANWAY WITH FABRICATED MANWAY DUE TO
WARPAGE OF SEATING AREA.

9. ☐ ISI Flaw

NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

THE SUITABILITY OF THE REPLACEMENT IS FOUND IN THE DISPOSITION TO THE
DFWD. THE CAUSE OF FAILURE OF THE MANWAY IS WARPAGE. THE REPLACEMENT
COUPLER IS THICKER AND WILL RESIST WARPAGE.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition SEC III CL. 2/'74 ED. '75 W'ADD

13. Repair/Replacement Activity Construction Code/Edition SEC III CL. 2/'74 ED. W'75 ADD

14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required.

☐ YES

☒ NO

JB
Initial

10/24/00
Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☒ YES

☐ NO

JB
Initial

10/24/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

JB
Initial

10/24/00
Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JB
Initial

10/24/00
Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Manway bolts (2)	APN# 43110047	N/A	E 9	478240
Manway nuts (4)	APN# 43120595	N/A	D 6	478240
Manway (fabricated)	APN# 43640330	N/A	25527	MR# 20902
Manway mounting aids	APN# 43115000	N/A	868450	478267

19. Planner

Jim Boulanger
Signature

10/24/00
Date

Print Name JIM BOULANGER

20. ISI Engineer

R.L. Browning
Signature

10/25/00
Date

Print Name R.L. BROWNING

21. ANII

Bob Hogstrom
Signature

10-25-00
Date

Print Name BOB HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/24/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2332261
Address Work Order Number
 3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
 Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System, ASME SEC.III, CL.2

5. (a) Applicable Construction Code ASME SEC III CL2 19 74 Edition, W'75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Manway(fabricated)	APS	N/A	N/A	2MCHNX01	2000	Replacement	No
Manway bolts(2)	N/A	N/A	N/A	2MCHNX01	2000	Replacement	No
Manway nuts (4)	N/A	N/A	N/A	2MCHNX01	2000	Replacement	No
manway mounting aid	N/A	N/A	N/A	2MCHNX01	2000	Replacement	No

7. Description of Work Due to original being warped, replaced w/fabricated manway, mounting aids & bolts/

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks New manway fabricated per ENG dfwo# 2332259 and DIDF wo# 2332261

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date _____

Signed

R. Priddy, Consulting Met. Engineer Date 10-31-2000
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-25-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. A. Augustine
Inspector's Signature

Commissions

NS 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSIBV405 2. Code Class 2
 3. Item Description HPSI PUMP 2 CHECK VALVE
 4. N-5 Package Number 2SI09-3 5. W.O. Number 2332277
 6. Original Construction Code Edition ASME SECTION III, CLASS 2 1974 EDITION, WINTER 75 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 2 1974 EDITION, WINTER 75 ADDENDA
 8. Work Description REPLACE THE BONNET ARM AND DISC ASSEMBLY

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Valve bonnet, swing arm, and disc were being replaced
due to mechanical condition. No failure or
ISI flaw found. Alan Morrow 10/28/00

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT III, CLASS 2 1974 EDITION, W 75 ADI
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT III, CLASS 2 1974 EDITION, W 75 ADD
 14. ASME Section XI Code/Edition ASME SECT XI, 1992 EDITION, 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
J.I.D. 10-28-00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
J.I.D. 10-28-00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

J.I.D. 10-28-00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
J.I.D. 10-28-00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Bonnet, arm, disc asmy	75939	217038-1	N/A	479164

19. Planner J. I. Davis 10-28-00 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
Signature Date
 21. ANII Bob Hogstrom 10-29-00 Print Name BOB HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2332277
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect III, Cl 2, 1974 Edition; W75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Borg-Warner	31775	N/A	2PSIBV405	1978	Repaired	Yes
Bonnet/disc assy.	Borg-Warner	217038-1	N/A	2PSIBV405	1991	Replacement	Yes

7. Description of Work Replaced the bonnet, arm and disc assembly

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work order 2332277 replaced the bonnet, arm and disc assembly

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R. L. Brooking ALP 151 EMD

Owner or Owner's Designee, Title

Date 11/1/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-29-00 to 11-1-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. L. Brooking
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date NOVEMBER 1, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002
 4. N-5 Package Number 2SI09-3 5. W.O. Number 002333124
 6. Original Construction Code Edition 1974 EDITION, ADDENDA ^{SUMMER} WINTER 1976
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1975
 8. Work Description REMOVE AND REPLACE VALVE.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO ASME SECTION III PRESSURE BOUNDARY FAILURE. VALVE REPLACED DUE TO SLOW
STROKE TIME OF THE VAVLE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1975
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial _____ Date _____

16. ASME Section XI Pressure Test Required ☒ YES ☒ NO ¹⁰⁻²⁷⁻⁰⁰
 If required, include a step in the W.O. for ISI & ANII Inspection. ^{GA}
 Initial _____ Date _____
 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial _____ Date _____
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
 Initial _____ Date _____

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Valve	77L-002	007		474874

19. Planner G. Osmondson ^{Signature} 10/27/00 ^{Date} Print Name G. Osmondson
 20. ISI Engineer R. P. Indap ^{Signature} 10-27-00 ^{Date} Print Name R. P. INDAP
 21. ANII _____ ^{Signature} _____ ^{Date} Print Name _____

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/02/00
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 002333124
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S Wintersburg Rd, Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System SI, ASME SECTION III, CLASS 2

5. (a) Applicable Construction Code Section III, CLASS 2 19 74 Edition, 75W Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	Target Rock	3 007	N/A	2jsibuv0659	1979	Replacement	Yes

7. Description of Work REMOVE AND REPLACE VALVE

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ N-416-1 ☒

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCBHV0108 2. Code Class ASME SECTION III CLASS 1
 3. Item Description 1 INCH SOLENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
 4. N-5 Package Number 2-RC03-2 5. W.O. Number SWMS#00-02310951
 6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974
 8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDARY. VALVE
REPLACEMENT IS TO ENHANCE VALVE PERFORMANCE WITH A NEW VALVE DESIGN.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1977 EDITION, ADDENDA WINTER 1978
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
LEO 9/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
LEO 9/26/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCBHV0108	98F-001	11	N/A	00470579-0006

19. Planner G. Osmundson 9/29/00 Print Name GERALD OSMUNDSON
Signature Date
 20. ISI Engineer R. P. Indap 9/29/00 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hogstrom 9-29-00 Print Name R. G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/27/00
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-02310951
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, AZ 85354-7529 Expiration Date N/A
Address

4. Identification of System RC, ASME SECTION III, CLASS 1

5. (a) Applicable Construction Code Section III, Class 1 19 74 Edition, W '75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Target Rock	11	N/A	2JRCBHV0108	2000	Replacement	Yes

7. Description of Work Remove valve and install new style 1" valve model # 98F-001

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 00-02310951

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R.L. BROWNING RLB ISI ENG Date 10/30/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCBHV0109 2. Code Class ASME SECTION III CLASS 1
 3. Item Description 1 INCH SOLENOID OPERATED VALVE MODEL 98F-001 (TARGET ROCK)
 4. N-5 Package Number 2-RC03-2 5. W.O. Number SWMS#00-002310953
 6. Original Construction Code Edition 1977 EDITION, ADDENDA WINTER 1978
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974
 8. Work Description REMOVE AND REPLACE VALVE PER PLANT CHANGE TO NEW STYLE VALVE
1 INCH MODEL# 98F-001

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
BEING REPLACED PER PLANT CHANGE. NO FAILURE OF ASME SECTION III BOUNDARY. VALVE
REPLACEMENT IS TO ENHANCE VALVE PERFORMANCE WITH A NEW VALVE DESIGN.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1977 EDITION, ADDENDA WINTER 1978
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
LEO 9/26/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
LEO 9/26/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
LEO 9/26/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCBHV0109	98F-001	5/11 12	N/A.	00470580-0006

19. Planner G Osmundson 10/6/2000 Print Name GERALD OSMUNDSON
 Signature Date
 20. ISI Engineer R.L.B. 10-6-00 Print Name R.L. BROWNIE
 Signature Date
 21. ANII R.G. Hogstrom 10-6-00 Print Name R.G. HOGSTROM
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/27/00
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-02310953
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, AZ 85354-7529 Expiration Date N/A
Address

4. Identification of System RC, ASME SECTION III, CLASS 1

5. (a) Applicable Construction Code Section III, Class 1 19 74 Edition, W '75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Target Rock	12	N/A	2JRCBHV0109	2000	Replacement	Yes

7. Description of Work Remove valve and install new style 1" valve model # 98F-001

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO#00-02310953

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R.L.B. ROODING RLB ISI ENR. Date 10/31/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-6-00 to 10-31-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R.L.B. Rooding Commissions NB 9685 "N" "I" Az. 2641
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 31, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0636 2. Code Class ASME SECIII, CL2, 74 ED, W, 75 ADD

3. Item Description REWORK VALV INTERNALS TO PREVENT LEAKAGE THROUGH SEAT

4. N-5 Package Number 2RC01-3B 5. W.O. Number 00-02318165

6. Original Construction Code Edition 1974 EDITION, WINTER 75 ADDENDA

7. Original Installation Code Edition 1974 EDITION, WINTER 75 ADDEMDA

8. Work Description REMOVE BONNET SEAL WELD AND REWORK VALVE INTERNALS TO PREVENT LEAKAGE THROUGH SEATING SURFACES, REPLACE SEAL WELD

9. ☐ ISI Flaw

NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

NO FAILURE IN ASME BOUNDARY, NEW INTERNALS WERE INSTALLED PER DMWO 00787532
SEATING SURFACES ARE NOW LEAKING THROUGH AND NEED REWORKING TO ELIMINATE
LEAKAGE

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION, WINTER 75 ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITON, WINTER 1975 ADDENDA

14. ASME Section XI Code/Edition 1992 EDITION AND 92 ADDENDA

15. Preservice Inspection Required.

☐ YES

☒ NO

EE 9-29-00 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☒ YES

☒ NO

EE 9/29/00 If required, include a step in the W.O. for ISI & ANII Inspection.

EE 9/29/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

EE 9/29/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ITEM & DISC ASSY	2000368	169	M873E	00361241-0001

19. Planner G. Osmundson 9/29/00 Print Name G. OSMUNDSON

20. ISI Engineer R.P. Indap 9/29/00 Print Name R. P. INDAP

21. ANII R. G. Hogstrom 9-29-00 Print Name R. G. HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/21/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-2318165
Address Work Order Number

3. Work Performed by PALO VERDE NUCLEAR GEN PLANT Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 2RC01-3B

5. (a) Applicable Construction Code ASME SECTIII NC 19 74 Edition, W,75 Addenda, NA Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	BORG WARNER	51729	N/A	2JSIBUV0636	1979	Repaired	Yes
DISC	BORG WARNER	169	N/A	2JSIBUV0636	2000	Replacement	No

7. Description of Work REWORK VALVE INTERNALS TO STOP SEAT LEAKAGE

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks DIASSEMBLED VALVE, REPLACED STEM AND DISC ASSEMBLY TO CORRECT SEAT
LEAKAGE ON EXISTING BORG WARNER VALVE S/N 51729 REINSTALLED SEAL
WELD

WO 00-02318165

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules
of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Alan Monow Sr. ISE Engineer Date 10/21/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-29-00 to 10-21-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature] Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 21, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PCHNV355 2. Code Class ASME SEC III CL 2
 3. Item Description 3" GATE VALVE - LOW PRESSURE BORG WARNER
 4. N-5 Package Number 2CH13-2 5. W.O. Number 2334018
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description GATE GUIDE ON VALVE BODY HAS PULLED AWAY FROM THE BODY AND IS
KEEPING THE VALVE FROM ACTUATING COMPLETELY. GUIDE WILL BE
REWORKED AND WELDED TO CORRECT CONDITION.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

GATE GUIDE IS NOT PRESSURE RETAINING MATERIAL
THEREFORE NO PRESSURE BOUNDARY FAILURE HAS OCCURRED.
REPAIR WILL RESTORE GUIDE TO ORIGINAL CONFIGURATION
DLB 11/2/00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME SEC.III CL2/'74 ED. '75 W'ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SEC.III CL2/'74 ED. '75 W'ADD
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Valve body gate guide	N/A	N/A	N/A	N/A

19. Planner James A. Boulanger 11/1/00 Print Name JAMES BOULANGER
 Signature Date
 20. ISI Engineer Alan Morrow 11/1/00 Print Name Alan Morrow
 Signature Date
 21. ANII Bob Hogstrom 11-1-00 Print Name BOB HOGSTROM
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/01/00
Name

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2334018
Address Work Order Number

3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name

Authorization No. N/A

5801 S. Wintersburg Rd. Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System CH, Chemical Volume Control System, ASME Sec. III CL2

5. (a) Applicable Construction Code ASME SEC III CL2 19 74 Edition, W'75 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve body gate guide	Borg Warner	N/A	N/A	2PCHNV355	1980	Repaired	No

7. Description of Work Valve guide on body of valve has pulled away and needs to be welded back in place

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks ENG DFWO# 2334003 / DI WO# 2334018(IMPLEMENTATION DOCUMENT)

BORG WARNER VALVE S/N 61539 BUILT 1980

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed RL Barrowick ISI ENG
Owner or Owner's Designee, Title

Date 11/2/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 11-1-00 to 11-2-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

RL Barrowick
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 2641
National Board, State, Province, and Endorsements

Date 11-2-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0332 2. Code Class 1
3. Item Description HOT LEG INJECTION CHECK VALVE LEAK LINE ISOLATION VALVE.
4. N-5 Package Number 2RC01-1B 5. W.O. Number 00926899
6. Original Construction Code Edition ASME Section III, Class 1, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 75 Addenda
8. Work Description Leak off piping replacement is required when the valve is repacked per 13-PN-220.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
Existing ~~PIP~~ packing leakoff connection is being replaced
by a plug as specified in piping installation spec. 13-PN-220.
No failure is involved. R.P. Indap 5/4/00 RPZ 5/4/00
204

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III, Cl 1, 1974 Ed., S 75 Add.
13. Repair/Replacement Activity Construction Code/Edition ASME Sect. III, Cl 1, 1974 Ed., W 75 Add.
14. ASME Section XI Code/Edition ASme Section XI, 1992 Edition, 92 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO

J.I.D. 05/04/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO

J.I.D. 05/04/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

J.I.D. 05/04/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

J.I.D. 05/04/00 18. Include a step in the W.O. to record below all applicable numbers.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
Pipe Cap	43550610	n/a	CHY	PL0414566

19. Planner James I. Davis 05/04/00 Print Name James I. Davis
Signature Date
20. ISI Engineer R.P. Indap 05/04/00 Print Name R. P. INDAP
Signature Date
21. ANII R.G. Hogstrom 5-4-00 Print Name R.G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date _____
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO 00926899
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address
4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect III, Cl 1 1974 Edition, s75 Addenda, _____ Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve	Fisher Controls	6540506	4470	2JSIBUV0332	1979	Repaired	Yes
Pipe Cap	N/A	N/A	N/A	2JSIBUV0332	2000	Replacement	^{7/9} 10-27-00 Yes No

7. Description of Work Replaced the leakoff piping per the requirements of 13-PN-204

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work Order 00926899 replaced the leakoff piping.

CERTIFICATE OF COMPLIANCE

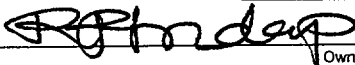
We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



ISA Engineer

Date 10-27-00

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-4-00 to 10-27-00, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.



Inspector's Signature

Commissions NB 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date 10-27-00

10-27-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002
 4. N-5 Package Number 2SI09-3 5. W.O. Number 00-00242320
 6. Original Construction Code Edition 1974 EDITION, ADDENDA WINTER 1976
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1975
 8. Work Description REMOVE BONNET TO BODY SEAL WELD AND INSPECT INTERNALS FOR THE CAUSE OF SLOW CLOSE STROKE. SOME INTERNAL PARTS WILL BE REPLACED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO ASME SECTION III PRESSURE BOUNDARY FAILURE. VENDOR REP WILL ASSIST IN IDENTIFYING PART TO BE REPLACED TO IMPROVE VALVE CLOSE STROKE TIME.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1975
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
EC 10-16-2000 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
EC 10-16-2000 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

- EC 10-16-2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
EC 10-16-2000 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
PILOT DISC	102153-1	131		00472056-0004
MAIN DISC	300328-1	S/N56		00472056-0003

19. Planner G. Osmondson 10/16/2000 Print Name G. Osmondson
Signature Date
 20. ISI Engineer Alan Morrow 10/16/00 Print Name Alan Morrow
Signature Date
 21. ANII Robert G. Hogstrom 10/16/00 Print Name ROBERT G. HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III, CLASS 2
 3. Item Description 4 INCH TARGET ROCK SOLENOID VALVE MODEL 77L-002
 4. N-5 Package Number 2SI09-3 5. W.O. Number 00-00242320
 6. Original Construction Code Edition 1974 EDITION, ADDENDA WINTER 1976
 7. Original Installation Code Edition 1974 EDITION, ADDENDA WINTER 1974/5 RPT 40-4-2000
 8. Work Description REMOVE BONNET TO BODY SEAL WELD AND INSPECT INTERNALS FOR THE CAUSE OF SLOW CLOSE STROKE. SOME INTERNAL PARTS WILL BE REPLACED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO ASME SECTION III PRESSURE BOUNDARY FAILURE. VENDOR REP WILL ASSIST IN IDENTIFYING PART TO BE REPLACED TO IMPROVE VALVE CLOSE STROKE TIME.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION ADDENDA WINTER 1976
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, ADDENDA WINTER 1974/5 RPT 10-4-00
 14. ASME Section XI Code/Edition 1992 EDITION, ADDENDA 1992

15. Preservice Inspection Required. ☐ YES ☒ NO
8EO 10/4/2000 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☒ YES ☒ NO
8EO 10/4/2000 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
8EO 10/4/2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
8EO 10/4/2000 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JSIBUV0659				

19. Planner G Osmundson 10/4/2000 Print Name G Osmundson
Signature Date
 20. ISI Engineer R P Indap 10-4-2000 Print Name R. P. INDAP
Signature Date
 21. ANII R G Hogstrom 10-5-00 Print Name R G HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/02/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-00242320
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S Wintersburg Rd, Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System SI, ASME SECTION III, CLASS 2

5. (a) Applicable Construction Code Section III, CLASS 2 19 74 Edition, 75W Addenda, _____ Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	Target Rock	3	N/A	2jsibuv0659	1979	Replacement	Yes
MAIN DISC	TARGET ROCK	S/N-56	N/A	2jsibuv0659	N/A	Replacement	No
PILOT DISC	TARGET ROCK	131	N/A	2jsibuv0659	N/A	Replacement	No

7. Description of Work Remove and reinstall bonnet to body seal weld for internal rework.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐

Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W 0 #00-00242320 REMOVED SEAL WELD , INSPECTED INTERNALS , REMOVED
AND REPLACED THE MAIN DISC AND PILOT DISC , REASSEMBLED VALVE AND
REINSTALLED THE SEAL WELD

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules
of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed Alan Monow Sr. ISI Engineer Date 10/16/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-5-00 to 10-16-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
(Inspector's Signature)

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 16, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JCHAU0516 2. Code Class ASME SEC.III CL.1
 3. Item Description 2" FISHER CONTROL (GLOBE) VALVE
 4. N-5 Package Number 2RC01-1C 5. W.O. Number 222517 / 899861
 6. Original Construction Code Edition ASME SEC III CL1 -1974 EDITION, SUMMER 1975
 7. Original Installation Code Edition ASME SEC III CL1 -1974 EDITION, WINTER '75
 8. Work Description REMOVED SEAL LEAK OFF LINE AND INSTALLED WELDED PLUG

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

NO FLAW EXIST. THE LEAK OFF LINE PLUG IS NOW
TO NEW VALVE PACKING CONFIGURATION' RLB 10-16-00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME SEC III CL1 -1974 EDITION, WINTER 1975
 13. Repair/Replacement Activity Construction Code/Edition ASME SEC III CL1 -1974 EDITION, WINTER 1975
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Seal leak off line plug	43550610	N/A	CHY	00396348-0055

19. Planner [Signature] 10/16/00 Print Name JAMES BOULANGER
 20. ISI Engineer [Signature] 10/16/00 Print Name R.L. BROOKING
 21. ANII [Signature] 10-16-00 Print Name BOB HOGSTROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/16/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 1
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 222517 / 88881
Address Work Order Number

3. Work Performed by Palo Verde Nuclear Generating Station Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Arizona Authorization No. N/A
Address Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System

5. (a) Applicable Construction Code ASME SEC III CL. 1 19 74 Edition, W '75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
2" globe valve	Fisher	6540513	N/A	2JCHAUUV516	1979	Replacement	Yes

7. Description of Work Removed seal leak off nipple and installed butt weld plug

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. # 222517/899861

Seal leak off line removed and butt weld plug installed.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R. L. Brown IS/ENCL Date 10/14/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-16-00 to 10-16-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R. L. Brown
Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 10/16/00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEB18 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER SLEEVE
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2330262
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description 1. Temper Bead Weld Pad Around Heater 2MRCEB18 Sleeve Opening. 2. Inconel 690 Plug
Welded to the Pad to Close the Heater Opening. SEE DFWO# 2327179 Disposition.

9. ☐ ISI Flaw NDE Method of Flaw Detection N/A
 Report Number N/A
 10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Cracked Sleeve is Partially Removed and the Opening is Being Plugged with Corrosion Resistant Inconel 690
Material. See Detailed Evaluation in DFWO 2327179 & CRDR 2326705.

11. Repair/Replacement Work Organization Welding Services Incorporated
 12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME XI, '92Addenda & Subsection NB '75 Winter Adde
 14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A 10/17/2000 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
KVS 10/17/2000 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
KVS 10/17/2000 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 10/17/2000 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Sleeve Plug	N/A	N/A	NX0911 HK	MR# 472746

19. Planner Karl V. Savage 10/17/2000 Print Name Karl V. Savage
Signature Date
 20. ISI Engineer R. P. Indap 10/18/00 Print Name Ramakant P. Indap
Signature Date
 21. ANII R. G. Hogstrom 10/18/00 Print Name Robert G. Hogstrom
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/02/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2330262
Address Work Order Number

3. Work Performed by Welding Services Incorporated Type Code Symbol Stamp None
Name
2225 Skyland Court, Norcross, Georgia 30071 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC, ASME Section III, Class 1

5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/73 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Temp. Bead Pad	APS	N/A	N/A	2MRCEB18	2000	Repaired	No
Plug	APS	N/A	N/A	NX0911HK	2000	Replacement	No

7. Description of Work Install Tempered Bead Pad and Inconel 690 Plug

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ N-416-1 ☒
Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2330262. 1. Temper Bead Weld Pad Around B18 heater Opening. 2. Inconel 690 Plug welded to the Pad to Close the Sleeve Opening. See DFWO#2327179.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp NA

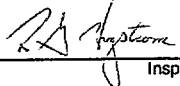
Certificate of Authorization No. NA Expiration Date N/A

Signed  ISI Engineer Date 11-3-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-18-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

 Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEE01A 2. Code Class ASME Section III, Class 2
 3. Item Description Steam Generator Blowdown Sample Nozzle.
 4. N-5 Package Number 2SG01-1A 5. W.O. Number 2330314
 6. Original Construction Code Edition 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
 8. Work Description Temper Bead Pad Weld Repair of Leaking Nozzle per DFWO# 2330312

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

Nozzle attachment weld on I.D. of the vessel was leaking because of porosity that opened up due to normal corrosion (Based on previous history of these Instrument Nozzles). The Repair is by attaching the Nozzle from outside using temper bead pad. see DFWO 2330312

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition Section III Cl.2/'71 Edition '73 Winter Addenda
 13. Repair/Replacement Activity Construction Code/Edition Section XI 1992 Edition '92 Addenda
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
KVS/A 10/20/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
KVS 10/20/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
KVS 10/20/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
KVS 10/20/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.

19. Planner Karl V. Savage 10/20/00 Print Name Karl V. Savage
 Signature Date
 20. ISI Engineer Ramakant P. Indap 10-20-00 Print Name Ramakant P. Indap
 Signature Date
 21. ANII Robert G. Hogstrom 10-20-00 Print Name Robert G. Hogstrom
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/20/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2330314
Address Work Order Number
3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah Arizona, 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System SG, ASME Section III, Class 2
5. (a) Applicable Construction Code Section III, Class 2 19 71 Edition, 73 'W Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Sample Line Nozzle	C.E.	N/A	N/A	2MRCEE01	1979	Repaired	No

7. Description of Work Temper Bead Weld Repair of the Steam Generator Nozzle for Blowdown Sample

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ N-416-1 ☒
- Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks Work Order 2330314. Temper Bead Weld Repair of the Steam Generator Nozzle for The
Blowdown Sample Line Per DFWO 2330312.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed R-L Brown ISI Engineer Date 11/3/00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-20-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R-L Brown Commissions NB 9685 "N" "I" AZ264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0576 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE, 1315 PSIG RATED
 4. N-5 Package Number 2SG01-1A 5. W.O. Number WO# 231138
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of safety valve with spare per maintenance engineering direction following on-line pressure testing.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in ASME boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III Class 2, 1974 Ed., S'75
 13. Repair/Replacement Activity Construction Code/Edition ASME III Class 2, 1974 Ed., W'75 Add.
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/05/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/05/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 10/05/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 10/05/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JSGEPSV0576	N/A	BS-08587	N/A	PL0428452

19. Planner David Goodlet 10-5-00 Print Name David Goodlet
Signature Date
 20. ISI Engineer Ramakant Indap 10-5-00 Print Name Ramakant Indap
Signature Date
 21. ANII Robert Hogstrom 10-5-00 Print Name Robert Hogstrom
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/05/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 wo# 231138
Address Work Order Number
3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A
Address
4. Identification of System "SG" - Main Steam
5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Safety valve	Dresser	BS-08587	N/A	2jsgepsv576	1978	Replacement	Yes

7. Description of Work Replace main steam safety valve with spare.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 231138 for the replacement of main steam safety valve 2JSGEPSV0576. Selected by maintenance engineering following on-line trevi-testing of valves.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date

Signed

R.L. Bazzani R.L.B. 5164
Owner or Owner's Designee, Title

Date

11/3/00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-5-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

R.L. Bazzani
Inspector's Signature

Commissions

NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date

11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231241
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE PER WORK ORDER 231241. Also welded cap on drain pipe. RPI 10-26-00

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS SN#14537.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0200	APN#45003560	BY14537	N/A	MA#472781
VALVE				

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231241
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Expiration Date N/A
Address
4. Identification of System RC ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BY14537	N/A	2JRCEPSV200	1991	Replacement	Yes
PIPE CAP	N/A	N/A	N/A	2JRCEPSV200	2000	Repaired	No
NIPPLE	N/A	N/A	N/A	2JRCEPSV200	2000	Repaired	No

7. Description of Work RE-WORKED DRAIN NIPPLE AND PIPE CAP, REPLACED VALVE.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
- Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks VALVE W.O. 231241 BEING ROTATED TO FACILATE TESTING. THE REPLACEMENT VALVE IS SN# BY14537. RE-WORKED EXISTING DRAIN NIPPLE AND WELDED PIPE CAP.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature] ISI ENGINEER

Date 11-3-00

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions NB 9685 "N" "I" Az 264
National Board, State, Province, and Endorsements

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class 1
3. Item Description PRESSURIZER SAFETY RELIEF VALVE
4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231242
6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231242.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS 1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER MEE #02504. 95 103 109-00

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0201	APN#45003560	BQ07679	N/A	MA # 472789
VALVE				
NIPPLE	APN#43571055	N/A	461449	MA # 472692
CAP	APN#43550622	N/A	HYD	MA # 472692

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231242
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BQ07679	N/A	2JRCEPSV201	1978	Replacement	Yes
PIPE CAP	N/A	461449	N/A	2JRCEPSV201	2000	Repaired	No
NIPPLE	N/A	HYD	N/A	2JRCEPSV201	2000	Repaired	No

7. Description of Work VALVE AND DRAIN NIPPLE REPLACEMENT.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 231242 VALVE AND DRAIN NIPPLE REPLACEMENT (2JRCEPSV0201). THE
VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION
SUMMER 75' ADDENDA AS PER THE SECTION XI 95 EDITION 96 ADDEDNA
REQUIREMENTS. RECONILATION PER MEE #02504.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature] ISI ENGINEER
Owner or Owner's Designee, Title

Date 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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:

[Signature]
Inspector's Signature

Commissions DB 9685 "N" "I" A2 264
National Board, State, Province, and Endorsements

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231243
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE DRAIN NIPPLE AND VALVE PER W.O. 231243.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS 1971
EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION SUMMER '75 ADDENDA
AS PER THE SECTION XI 97 EDITION 96 ADDENDA REQUIREMENTS. RECONCILIATION AS PER
MEE #02504. 95-185 10-9-00

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0202	APN#45003560	BQ07678	N/A	MA#472901
VALVE				
NIPPLE	APN#43571055	N/A	461449	MA#472693
CAP	APN#43550622	N/A	HYD	MA#472693

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 10-10-00 Print Name R.P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-10-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. #231243
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Expiration Date N/A
Address

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, 75'S Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BQ07678	N/A	2JRCEPSV202	1978	Replacement	Yes
PIPE CAP	N/A	461449	N/A	2JRCEPSV202	2000	Replacement	No
NIPPLE	N/A	HYD	N/A	2JRCEPSV202	2000	Replacement	No

7. Description of Work VALVE AND DRAIN NIPPLE REPLACEMENT.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks W.O. 231243 VALVE AND DRAIN NIPPLE REPLACEMENT (2JRCEPSV0202). THE
VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
1971 EDITION, WINTER 72 ADDENDA AND RECONCILED TO THE 1974 EDITION
SUMMER 75' ADDENDA AS PER THE SECTION XI 95 EDITION 96 ADDEDNA
REQUIREMENTS. RECONCILIATION PER MEE #02504.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date 3/12

Signed

Wily [Signature] ISI ENGINEER

Owner or Owner's Designee, Title

Date 11-3-00

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-03-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature]
Inspector's Signature

Commissions

NB 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date

11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 2RC03-2 5. W.O. Number W.O. 231244
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE PER WORK ORDER W.O. 231244. Also welded cap on
drain pipe RPT
10-26-00

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BY14538.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 10/09/00 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10/09/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10/09/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV203	APN#45003560	BY14538	N/A	MAN#472782
VALVE				

19. Planner Michael B. Newell 10/09/00 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 10-10-00 Print Name R. P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 10-11-00 Print Name ROBERT G. HOGSTROM
Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
 2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 231244
Address Work Order Number
 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH AZ, 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

5. (a) Applicable Construction Code SEC III CLASS 1 1974 Edition, 75'S Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BY14538	N/A	2JRCEPSV203	1991	Replacement	Yes
PIPE CAP	N/A	N/A	N/A	2JRCEPSV203	2000	Repaired	No
NIPPLE	N/A	N/A	N/A	2JRCEPSV203	2000	Repaired	No

7. Description of Work RE-WORKED DRAIN NIPPLE AND PIPE CAP, REPLACED VALVE.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure _____ psi Test Temp. _____ °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks VALVE W.O. 231244 BEING ROTATED TO FACILATE TESTING. THE REPLACEMENT VALVE IS SN# BY14538. RE-WORKED EXISTING DRAIN NIPPLE AND WELDED PIPE CAP.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date N/A

Signed *Tracy Abbott* ISI ENGINEER Date 11-3-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-11-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Tracy Abbott Commissions NB 9685 "N" "I" Az. 264
(Inspector's Signature) National Board, State, Province, and Endorsements

Date 11-3-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGAUV0500S 2. Code Class ASME III, CLASS 2
 3. Item Description 6"-900# PRESSURE SEAL GATE VALVE
 4. N-5 Package Number 2SG02-1A 5. W.O. Number 243062
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDUM
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description DISASSEMBLE VALVE FOR PACKING REPLACEMENT AND DECON. BROKE OFF BOLTS IN BONNET DURING DISASSEMBLY. FOR EASE OF REASSEMBLY WILL USE NEW UNCONTAMINATED BONNET..

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NOT A PRESSURE BOUNDARY FAILURE. BONNET IS BEING REPLACED FOR EASE OF REASSEMBLY AND TO REDUCE CONTAMINATED COMPONENTS IN THIS VALVE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 EDITION, S'1975 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III, CLASS 2, 1974 EDITION, W'1975 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/28/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/28/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
Dmg 10/28/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
Dmg 10/28/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
VALVE BONNET		229H-3	K171	PL0433129

19. Planner David Goodlet 10-28-00 Print Name DAVID GOODLET
 Signature Date
 20. ISI Engineer Alan Morrow 10/28/00 Print Name Alan Morrow
 Signature Date
 21. ANII Robert Hogstrom 10-29-00 Print Name ROBERT HOGSTROM
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/28/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 243062
Address Work Order Number
3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD., TONOPAH, AZ. 85354 Expiration Date N/A
Address
4. Identification of System "SG" - MAIN STEAM
5. (a) Applicable Construction Code ASME III, CLASS 2 19.74 Edition, S'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
BONNET	Anchor/Darling	229H-3	N/A	2JSGAUV500S	2000	Replacement	Yes

7. Description of Work VALVE DISASSEMBLY FOR REPACK AND DECON.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 243062 DISASSEMBLED VALVE 2JSGAUV0500S FOR REPACK AND DECON.
REPLACED BONNET, STEM AND MISC HARDWARE.

REPLACED BONNET ON ANCHOR DARLING JLV. S/N E-6374-50-3 BUILT 1980

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. repair or replacement

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date _____

Signed [Signature] ISI ENGINEER Date 11-4-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-29-00 to 11-4-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

[Signature] Commissions NB 9685 "N" "I" Az-264
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 4, 2000

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSGEV693 2. Code Class ASME III Class 2
3. Item Description Anchor/Darling: 8"-900# Tilt Disc Check Valve, Pressure Seal.
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2326588
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACEMENT OF THE TWO (2) HINGE PIN BONNETS DUE TO DAMAGE
ENCURRED DURING THE MAINTENANCE DISASSEMBLY OF THE VALVE FOR "ISI"
INSPECTION.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
 Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME pressure boundary. Replacement due to maintenance damage during disassembly of the
valve. Used vender supplied replacement parts.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 10/11/00 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Dmg 10/14/00 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
Dmg 10/14/00 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
Dmg 10/14/00 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2PSGEV693	6496-1-5	N/A	A576 & TR CD. A576	PL0427345

19. Planner David Goodlet 10-14-00 Print Name DAVID GOODLET
 Signature Date
20. ISI Engineer Ramakant Indap 10-16-00 Print Name RAMAKANT INDAP
 Signature Date
21. ANII Robert Hogstrom 10-17-00 Print Name ROBERT HOGSTROM
 Signature Date

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/14/00
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 2
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2326588
Address Work Order Number
3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None
Name
Palo Verde Generating Station Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "SG" - Main Steam
5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Hinge Pin Bonnet	Anchor/Darling	n/a	n/a	2PSGEV693	2000	Replacement	No

7. Description of Work Disassembly & inspection of check valve for our ISI program.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)

9. Remarks WO# 2326588 disassembled and inspected the check valve for our "ISI" inspection program.
The two (2) hinge pin bonnets were damaged during removal and were replaced with
vendor supplied spare parts.

REPLACED HINGE PIN BONNETS ON ANCHOR DARLING J.V. S/N 2N1516
BUILT 1979

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp n/a

Certificate of Authorization No. n/a

Expiration Date n/a

Signed Willie

Date 11/3/00

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-17-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

Willie
Inspector's Signature

Commissions

NB 9685 "N" "I"

National Board, State, Province, and Endorsements

Date

11-4-00

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MRCEA06 2. Code Class ASME Section III, Class 1
 3. Item Description REACTOR COOLANT SYSTEM PRESSURIZER HEATER SLEEVE
 4. N-5 Package Number 2RC01-1A 5. W.O. Number 2327197
 6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda
 7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda
 8. Work Description 1. Temper Bead Weld Pad Around Heater 2MRCEA06 Sleeve Opening. 2. Inconel 690 Plug Welded to the Pad to Close the Heater Opening. SEE DFWO# 2327179 Disposition.

9. ☐ ISI Flaw

NDE Method of Flaw Detection N/A

Report Number N/A

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

Cracked Sleeve is Partially Removed and the Opening is Being Plugged with Corrosion Resistant Inconel 690 Material. See Detailed Evaluation in DFWO 2327179 & CRDR 2326705.

11. Repair/Replacement Work Organization Welding Services Incorporated

12. Replacement Item Construction or reconciled Code/Edition ASME Sec.III Cl.1/'71 Edition '73 Winter Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME XI, '92Addenda & Subsection NB '75 Winter Addenda

14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☐ YES

☒ NO

N/A
Initial

10/12/00
Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☒ YES

☐ NO

KVS
Initial

10/12/00
Date

If required, include a step in the W.O. for ISI & ANII Inspection.

KVS
Initial

10/12/00
Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

KVS
Initial

10/12/00
Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Sleeve Plug	N/A	N/A	NX0911HK	MR# 472744

19. Planner

Karl V. Savage
Signature

10/12/00
Date

Print Name Karl V. Savage

20. ISI Engineer

Ramakant P. Indap
Signature

10/12/00
Date

Print Name Ramakant P. Indap

21. ANII

Robert G. Hogstrom
Signature

10-12-00
Date

Print Name Robert G. Hogstrom

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 11/02/00

P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Name
Address

2. Plant Palo Verde Nuclear Generating Station Unit 2

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2327179
Name
Address Work Order Number

3. Work Performed by Welding Services Incorporated Type Code Symbol Stamp None

2225 Skyland Court, Norcross, Georgia 30071 Authorization No. N/A
Name
Address

4. Identification of System RC, ASME Section III, Class 1

5. (a) Applicable Construction Code Section III, Class 1 19 71 Edition, W/'73 Addenda, Code Case

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Temp. Bead Pad	APS	N/A	N/A	2MRCEA06	2000	Repaired	No
Plug	APS	N/A	N/A	NX0911HK	2000	Replacement	No

7. Description of Work Install Tempered Bead Pad and Inconel 690 Plug

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ N-416-1 ☒

Other ☐ Pressure psi Test Temp. °F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NIS-2 (Back)


9. Remarks WO# 2327197. 1. Temper Bead Weld Pad Around A06 heater Opening. 2. Inconel 690 Plug welded to the Pad to Close the Sleeve Opening. See DFWO#2327179.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
repair or replacement

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date 2/2

Signed  ISI Engineer Date 11-3-00
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-12-00 to 11-3-00, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's 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.

 Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 11-3-00