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10CFR50.55a

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102-04884-SAB/TNW/RJR January 29, 2003

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 1, Docket No. STN 50-528

Unit 1 Second 10-Year Interval - Tenth Refueling Outage Inservice

Inspection Summary

Pursuant to 10 CFR 50.55a and IWA-6230 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 provides in Enclosure 1 the PVNGS Unit 1 Inservice Inspection Report for the tenth refueling outage. APS completed Unit 1's Refueling Outage on October 30, 2002. Also included in this summary report are four pressure tests performed at the end of the first inspection period that were omitted from the ninth refueling outage summary report for Unit 1.

This letter does not make any commitments to the NRC. Please contact Thomas N. Weber at (623) 393-5764 if you have any questions or require additional information.

Sincerely,

Swell Barren

SAB/TNW/RJR/kg

Enclosure

cc:

E. W. Merschoff

J. N. Donohew N. L. Salgado

A member of the STARS (Strategic Teaming and Resource Sharing) Alliance

Callaway ● Comanche Peak ● Diablo Canyon ● Palo Verde ● South Texas Project ● Wolf Creek

ENCLOSURE

SECOND 10-YEAR ISI INTERVAL SUMMARY REPORT TENTH REFUELING OUTAGE PALO VERDE NUCLEAR GENERATING STATION, UNIT 1

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

INSERVICE INSPECTION REPORT

TENTH REFUELING OUTAGE

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

PREPARED BY: PRog leas DATE: 1/24/03

REVIEWED BY: Mulul Meeter DATE: 1-24-03

APPROVED BY: Mulul Meeter DATE: 1-24-03

COMMERCIAL SERVICE DATE: REPORT DATE:

01/28/86 01/24/03

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UNIT 1 INSERVICE INSPECTION REPORT

1.0 Introduction

This report is a summary of the examinations performed during the tenth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 1. This report also includes all applicable examinations conducted since the last refueling outage. This was the first refueling for Interval 2, Period 2 which was conducted from September 28, 2002 through October 30, 2002. Palo Verde Unit 1 began commercial operation on January 28, 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 the ISI examinations performed during the Second Interval. This report is a summary of the Period 1 examinations and examinations performed through the tenth refueling outage. All of the examination report numbers listed in Appendix A for the tenth refueling and examinations performed since the last Summary Report are in bold type. Four pressure tests performed at the end of the first period were not included in the ninth refueling outage summary report. These reports were included in this report, listed under the first period and are also in bold. CRDR 2579575 has been initiated to address this issue.

2.0 Examination Summary

The evaluation of the results from the ISI examinations indicated the integrity of the systems have been maintained. All discrepancies were corrected or determined "use-as-is" in accordance with PVNGS work control practices and ASME Section XI.

Boric acid residue was detected on the tubing connected to the reactor vessel in-core instrument nozzles (ASME Class 1 Item B4.13, Zone 1). The condition was investigated under CRDR 2312850 and determined to be the result of a prior packing leak and leakage from the ICI seal table. No indications of leakage of the tubes, nozzles, or reactor vessel were detected. (Ref. CRDR 2564714 and report VT-02-705)

Visual examination of SI240H3 and SI240H5 (ASME Class 1 Item F1.10, Zone 21) identified that the load pin spherical bearing had moved 3/16" and 1/8" beyond the edge of the paddle. The spherical bearing on SI240H3 was cracked. The cracked spherical bearing was replaced and the other spherical bearing was reworked. The supports were examined based on identified vibration during a walk down and were not scheduled for examination. The cause was vibration on the system, induced by an adjacent valve. The evaluation determined that the supports would have continued to perform their design function in the as found condition. A stress analysis was performed under CRDR 2557486 and determined that sufficient margins exist in the system and support designs to handle these increases. Therefore, the piping system was not compromised. (Ref reports VT-02-431, VT-02-605, VT-02-432 and VT-02-607)

Visual examination of SI193H3, SI175H21, SG5H5, SG5H13, SG8H8, SI202H4 and SI220H20 (ASME Class 1 & 2 Item F1.10 & F1.20, Zone 22, 26, 55, 58, 96 and 97) identified that the sway strut lock nut was not fully engaged. The lock nuts were tightened. An evaluation was performed and determined that the loose lock nuts would have no impact on the support or system and would have continued to perform their design function in their as found condition. Therefore, the piping system and supports were not compromised. (Ref CRDR's 2559339 & 2560602, Report #s VT-02-496, VT-02-652, VT-02-507, VT-02-655, VT-02-560, VT-02-656, VT-02-65

02-563, VT-02-657, VT-02-451, VT-02-649, VT-02-469, VT-02-651, VT-02-443 and VT-02-648)

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

3.0 Examination Techniques

3.1 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 / Operability
S - Surface	PT	Liquid Penetrant
v	MT	Magnetic Particle
VOL - Volumetric	UT	Ultrasonic
	RT	Radiographic

3.2 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

4.1 All items were examined to the extent practical. Code limitations encountered during the examination that exceed the criteria of code case N490 are documented in Appendix B.

5.0 Personnel

5.1 All nondestructive examinations were performed by Arizona Public Service Co. (APS), 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. Hartford Steam Boiler Inspection and Insurance Company of Connecticut provided the Authorized Nuclear Inservice Inspector (ANII).

6.0 Equipment and Materials

6.1 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

One replacement and no repairs were performed, as a result of ISI examinations performed during U2R10. The replacement is as follows and is further addressed in the Section 2 Summary:

ZONE	WO/CRDR	ITEM SUMMARY #	DISCREPANCY
021	2558934 / 2557486	2-105-CH-149-H004	Cracked spherical bearing replaced

The applicable records and reports for the specific maintenance repair or replacements performed 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.

INSERVICE INSPECTION SUMMARY REPORT

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

FR - 10 CFR 50 augmented examinations

Zone No - Area designation per PVNGS design

Comp/Sys - Component or system description

Insp Per - Inspection period

Amt Reqd - 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

Acc - Accessible

ADV - Atmospheric Dump Valve

Aux - Auxiliary

Atmos - Atmospheric

CEDM - Control Element Drive Mechanism

Circ - Circumferential

Cont - Containment

CS - Containment Spray

CSP - Containment Spray Pump

FW - Feedwater

HPSI - High Pressure Safety Injection

HTRS - Heaters

ICI - In Core Instrumentation

IEB - Inspection and Enforcement Bulletin

Letdown HT Exch - Letdown Heat Exchanger

LPSI - Low Pressure Safety Injection

MS - Main Steam

MT - Magnetic Particle Test

Press Bound - Pressure Boundary

PSE - Preservice Examination

PSV - Pressurizer Safety Valve

PZR - Pressurizer

RCP - Reactor Coolant Pump

RCS - Reactor Coolant System

Reg HT Exch - Regenerative Heat Exchanger

SD - Shutdown

SG - Steam Generator

Snub - Snubber Reduction Program

Surf - Surface

UT - Ultrasonic Testing

Vis - Visual

Vol - Volumetric

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
SME Cla	ss 2 Aug	mented High Energy	Piping							
AHE 5.51	47	MS SG1	One	13	13	47-1	99-1361	99-1280		
& 5.52	77	1110 001	Olic		15	47-2	99-1360	99-1280		
£ J.J£						47-4	99-1305	99-1281		
						47-8	99-1306	99-1281		
						47-6 47-12	99-1307	99-1281		
						47-14A	99-1356	99-1280		
						47-16	99-1308	99-1281		
						47-20	99-1309	99-1281		
						47-24	99-1352	99-1280		
						47-25	99-1350	99-1280		
						47-28	99-1348	99-1282		
						47-29	99-1349	99-1282		
						47-30	99-1351	99-1280		
	51	Atmos Dump SG1	One	13	13	51-1	99-1345	99-1287		
						51-2	99-1362	99-1287		
						51-3	99-1363	99-1287		
						51-4	99-1364	99-1287		
						51-5	99-1365	99-1287		
						51-6	99-1366	99-1287		
						51-7	99-1367	99-1288		
						51-8A	99-1368	99-1288		
						51-8B	99-1369	99-1287		
						51-9	99-1370	99-1287		
						51-51	99-1371	99-1287		
						51-84	99-1346	99-1287		
						51-85	99-1347	99-1287		
	53	Steam to Aux FW	One	10	10	53-11	99-1538	99-1506		
	33	Steam to Max 1 W	One	10	10	53-12	99-1539	99-1506		
						53-12	99-1540	99-1506		PSE
								99-1506		FJE
						53-14	99-1541			
						53-15	99-1542	99-1506		
						53-21	99-1543	99-1506		
						53-22	99-1544	99-1506		
						53-23	99-1545	99-1506		
						53-24	99-1546	99-1506		PSE
			_	_	_	53-25	99-1547	99-1506		
			Two	9	9	53-1	UT-02-262	MT-02-187		
							UT-02-278			
						53-2	UT-02-263	MT-02-175		
						53-4	UT-02-264	MT-02-188		
						53-5	UT-02-265	MT-02-189		
						53-6	UT-02-267	MT-02-190		
						53-7	UT-02-268	MT-02-191		
						53-8	UT-02-269	MT-02-192		
						53-9	UT-02-270	MT-02-193		
						53-10	UT-02-271	MT-02-194		
	56	Feedwater SG1	One	7	7	56-1	01-1411	01-1328		
						56-3	01-1412	01-1328		
						56-4	01-1429	01-1328		
						56-6	01-1413	01-1328		
						56-7	01-1414	01-1328		
						5 6-9	01-1415	01-1328		
						56-11	01-1415	01-1328		
	60	Downcomer SG1	One	9	9	60-7	99-1708	99-1646		
	w	Powincourer 201	OHE	,	,	60-8	01-1221	01-1230		
						60-9	01-1221	01-1230		
						60-11	01-1222	01-1230		
						60-11	01-1223	01-1230		
						60-14	99-1625	99-1646		
						60-15	99-1658	99-1646		
						60-16	99-1666	99-1646		
						60-17	99-1667	99-1646		
		m	_	_	_		00 111			
	66	Blowdown SG1	One	9	9	66-1	99-1469	99-1416		
	66	Blowdown SG1	One	9	9	66-1 66-2 66-3	99-1469 99-1470 99-1471	99-1416 99-1416 99-1416		

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INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
Item no			Per	Req	Comp				710441	Tiemarks
						66-5	99-1472	99-1416		
						66-6	99-1473	99-1416		
						66-7	99-1474	99-1416		
						66-8	99-1475	99-1416		
						66-9	99-1476	99-1416		
						66-26	99-1477	99-1416		
AHE 5.81	47	MS SG1	One	7	6	47-3	99-1359	99-1280		
& 5.82	•			•	•	47-7	99-1358	99-1280		
W 0.02						47-11	99-1357	99-1280		
						47-15	99-1355	99-1280		
						47-19	99-1354	99-1280		
						47-23	99-1353	99-1280		
						47-27	77-1333	99-1280		
						2.		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ASME C	lass 1									
B 1.22	02	Closure Head	One	33%	33%	2-4	99-1466	99-1458		Accessible Areas
							99-1479			RR#14
							99-1481			
D + 60	01	D	_	F0~	en~	1.14	99-1483			m • • • • • • • • • • • • • • • • • • •
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	99-1465	99-1458		Examined 0°-120°
							99-1478			*Separate Report by
							99-1480			Wesdyne, Exam
							99-1482			completed in 1R8
B 2.11	5	Pressurizer	One	66%	66%	5-2	99-1448			Examined 0°-240°
& 2.12							99-1450			
							99-1452			
							99-1454			
						5-3	99-1449			1' long seam for 5-2
							99-1451			1 10.16 30.11.10.5 2
							99-1453			
							99-1455 99-1455			
			Two	66%	66%	5-6	99-1455 UT-02-243			1) long soom for F
			I WO	90%	0070	5-6	UT-02-243 UT-02-244			1' long seam for 5-
										8
							UT-02-245			
							UT-02-246			
						5-8	UT-02-238			Examined 0°-240°
							UT-02-240			
							UT-02-241			
							UT-02-242			
B 2.31	03	Steam Generator 1	One	33%	33%	3-5	01-1200			Examined 0°-120°
							01-1211			
							01-1214			
							01-1234			
			Two	33%	33%	3-5	UT-02-139			Examined 120°-
							UT-02-140			240°
							UT-02-147			
							UT-02-149			
B 2.32	03	Steam Generator 1	One	33%	33%	3-3	01-1199			
					- · · · ·		01-1212			
							01-1212			
							01-1213			
						3-10	01-1203			
						J 10	01-1208			
							01-1208			
							01-1216			
						3-11	01-1200			
						2-11	01-1200 01-1201			
							01-1210			
						•	01-1211			
							01-1214			
							01-1215			
							01-1234			
							01-1234 01-1235			
						3-12				
						3-12	01-1235 01-1201			
						3-12	01-1235			

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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 2.40	03	Steam Generator 1	One	50%	50%	3-6	01-1235 01-1201 01-1210			Examined 0°-180°
	04	Steam Generator 2	Two	50%	50%	4-6	01-1215 01-1235 UT-02-260			Examined 180°-
	•			22.10	•		UT-02-280 UT-02-281 UT-02-282			360°
B 3.90	01	Reactor Vessel	One	2	2	1-15 1-18	*			*Separate Report by Wesdyne. Exam
B 3.100	01	Reactor Vessel	One	2	2	1-15 1-18	*			completed in 1R8
B 3.110	05	Pressurizer	One	2	2	5-9	01-1283 01-1284 01-1286 01-1287			
						5-11	01-1267 01-1268 01-1269 01-1270			
			Two	2	2	5-10	UT-02-252 UT-02-253 UT-02-254 UT-02-255			
						5-13	UT-02-247 UT-02-248 UT-02-250 UT-02-251			
B 3.120	05	Pressurizer	One	2	2	5-9 5-11	01-1285 01-1406 01-1365			
			Two	2	2	5-10	01-1366 UT-02-2 66			
						5-13	UT-02-272			
B 3.130	03	Steam Generator 1	One	1	1	3-9	01-1202 01-1209 01-1217 01-1236			
			Two	1	1	3-7	UT-02-134 UT-02-143 UT-02-145 UT-02-146			
	04	Steam Generator 2	One	1	1	4-9	01-1376 01-1377 01-1378			
			Two	1	1	4-7	01-1379 UT-02-138 UT-02-142 UT-02-144 UT-02-148			
B 3.140	03	Steam Generator 1	One	1	1	3-9	01-02-148 01-1367 01-1368			
			Two	1	1	3-7	UT-02-132			
	04	Steam Generator 2	One	1	1	4-9	01-1369 01-1370			
D 4 10	02	Classes Hand	Two	1	1	4-7	UT-02-135		01-1627	
B 4.12	02	Closure Head	One Two	8 8	8 8	CEDM CEDM			VT-1627 VT-02-700	
B 4.13	01	Reactor Vessel	One Two	5 5	5 5	Inst. Noz. Inst. Noz			01-1627 VT-02-705	Reject – eval by CRDR 2312850
B 4.20	05	Pressurizer	One	12	12	Heater			01-1627	CEIB 89-06
B 5.40	20	PZR Surge	Two One	12 1	12 1	Heater 5-34	01-1288	01-1232	VT-02-699	CEIB 89-06
	31	PZR Safeties	One	ı	1	5-29	01-1290 01-1238 01-1239 01-1240	01-1010		

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INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp	Amt	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
Item no			Per	Req	Comp	<u></u>	01-1278			
				1	1	5-33	RT-02-003	PT-02-147		
	29	PZR Spray	Two	_	1	5-31	UT-02-257	PT-02-155		
	31	PZR Safeties	Two	1	_	1 thru 18	01-02-257	99-1510	99-1589	
B 6.10	02	Closure Head	One	18	18			MT-02-167	VT-02-592	
			Two	18	18	19 thru 36	00 1611	99-1509	¥ 1-02-372	
B 6.30	02	Closure Head	One	18	18	1 thru 18	99-1511 UT-02-211	MT-02-166		
			Two	18	18	19 thru 36	U1-02-211	N11-02-100	99-1613	
B 6.50	02	Closure Head	One	18	18	1 thru 18			VT-02-593	
			Two	18	18	19 thru 36	00 1505			
B 6.180	16	RCP 1A	One	5	5	1 thru 5	99-1705		99-1601	
									01-1654	TETNI OA 97
			Two	5	0	6 thru 10			VT-02-626	IEIN 80-27
	17	RCP 1B	One	5	5	1 thru 5	99-1706		99-1603	
									01-1654	*********
			Two	5	0	6 thru 10			VT-02-630	IEIN 80-27
	18	RCP 2A	One	5	5	1 thru 5	99-1487		99-1500	
	10						99-1464			PSE
									01-1654	
			Two	5	0	6 thru 10			VT-02-634	IEIN 80-27
	19	RCP 2B	One	5	5	1 thru 5	99-1707		99-1602	
	19	KCF 2B	One	,		1 0 0			01-1654	
			Two	5	0	6 thru 10			VT-02-638	IEIN 80-27
	40	D CD O A	One	When		Flange			99-1488	
B 6.190	18	RCP 2A	Olic		embled	1 milec				
		D CD 14	0	5	5	1 thru 5			99-1601	
B 6.200	16	RCP 1A	One	5 5	5	6 thru 10			VT-02-625	
			Two			1 thru 5			99-1603	
	17	RCP 1B	One	5	5				VT-02-629	
			Two	5	5	6 thru 10			99-1500	Rejected 6 nuts, PSE
	18	RCP 2A	One	5	5	1 thru 5			99-1197	6 nuts/clamp ring
										o nucs clamp ing
			Two	5	5	6 thru 10			VT-02-633	
	19	RCP 2B	One	5	5	1 thru 5			99-1602	
			Two	5	5	6 thru 10			VT-02-637	
B 7.20	05	Pressurizer	One	20	20	20 studs/nuts			99-1498	
2									01-1272	Removed
			T₩o	20	20	20 studs/nuts		MT-02-172	VT-02-596	IEB 82-02
B 7.30	03	SG1	One	40	40	40 studs/nuts			99-1492	_
D 7.50	05								01-1271	Removed
			Two	40	40	40 studs/nuts		MT-02-173	VT-02-594	IEB 82-02
	04	SG2	One	40	40	40 studs/nuts			99-1493	
	V -1	502							01-1294	Removed
			Two	40	40	40 studs/nuts		MT-02-174	VT-02-595	IEB 82-02
B 7.50	31	Pzr Safeties	One	1	1	PSV200			99-1499	
Б 7.30	31	ra saicues	Ono	•	-				01-1431	Removed
						PSV201			99-1499	
						10.201			01-1431	Removed
						PSV202			99-1499	
						1 G 7 202			01-1431	Removed
i						PSV203			99-1499	
						1 5 7 203			01-1431	Removed
						PSV200		MT-02-168	VT-02-597	IEB 82-02
			Two			PSV200 PSV201		MT-02-169	VT-02-598	IEB 82-02
								MT-02-109	VT-02-599	IEB 82-02
ĺ						PSV202		MT-02-170 MT-02-171	VT-02-600	IEB 82-02
l .			_			PSV203		W11-V4-1/1	99-1263	ages VM-VM
1	37	Charging	One	1	1	V435			99-1203 99-1490	
B 7.60	16	RCP 1A	One	5	5	1 thru 5			01-1476	Disassembled
					_	1 thru 16				Disassemoten
ļ			Two	5	5	6 thru 10			VT-02-627	
1									VT-02-628	
	17	RCP 1B	One	5	5	1 thru 5			99-1491	
		1	Two	5	5	6 thru 10			VT-02-631	
l									VT-02-632	
I	18	RCP 2A	One	5	5	1 thru 5			99-1489	
	10			-		1 thru 16			01-1475	Disassembled / 2
I										rejects
						2			01-1501	PSE
				_	_				VT-02-635	
			T	E		6 thrn III			4 T-07-022	
			Two	5	5	6 thru 10				
	19	RCP 2B	Two One	5 5	5	6 thru 10 1 thru 5			VT-02-636 99-1602	

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INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
Item no			Per	Req	Comp					
			Two	5	5	6 thru 10			VT-02-639	
			_		_	******			VT-02-641 99-1224	
B 7.70	21	SD Cooling 1	One	1	1	UV653			01-1533	
	22	SD Cooling 2	One	1	1	UV654			VT-02-514	
			Two	1	1	UV652			01-1004	
	23	SI 1A	One	1	1	V237 V235			VT-02-516	
			Two	2	2	UV634			VT-02-510	
		***	^		1	V543			99-1228	
	24	SI IB	One	1 2	1 2	V245			VT-02-478	
			Two	4	-	UV644			VT-02-506	
		01.04	One	1	1	V540			99-1219	
	25	SI 2A	Two	ì	i	V217			VT-02-515	
	06	SI 2B	One	1	ī	V225			99-1614	
	26	31 4D	Two	2	2	V541			VT-02-553	PSE
			140	-	-	UV624			VT-02-518	
	27	PZR Spray 1A	Two	1	1	V100E			VT-02-614	
	28	PZR Spray 1B	One	2	2	V241			99-1283	Reject
	20	1 Zac opiuj 10	•						99-1665	Re-exam
									01-1024	Re-Exam
						V242			99-1283	
			Two	1	1	V100F			VT-02-615	
	31	Pzr Safeties	One	1	1	PSV200			99-1713	
	٠.	•	Two	1	1	PSV202			VT-02-601	
	32	Drain Line 1A	One	2	2	V234			99-1588	
						V334			99-1587	
	34	Drain Line 2A	Two	2	2	V233			VT-02-539	
	•					V333			VT-02-540	
	37	Charging	One	1	1	PDV240			99-1263 01-1042	
	38	Drain Line Loop 1	One	1	1	V215			01-1042	
	39	HPSI Long Term 1	One	1	1	V523			VT-02-421	
			Two	2	2	V522 V957			VT-02-578	
	40	HPSI Long Term 2	Two	1	1	V532			VT-02-579	GED) (00 & 06
B 7.80	02	RVLMS	One	1	1	2-21		24 4006	01-1600	CEDM 92 & 96 Examined 0°-240°
B 8.20	5	Pressurizer	One	66%	66%	5-1	99-1445 99-1446 99-1447	01-1006		Examined 0 -240
							99-1486			Examined 0°-120°
B 8.30	03	SG 1	One	33%	33%	3-1	01-1304 01-1330 01-1331	01-1292		Examined 0 -120
							01-1332			
	4	SG2	Two	33%	33%	4-1	UT-02-130 UT-02-136 UT-02-137	MT-02-165		Examined 120°- 240°, MT on OD only.
i			_	_	_		UT-02-141	01-1599		*Separate report by
B 9.11	06	RCS Piping	One	7	7	1-31 1-34	•	01-1599		Wesdyne. Exams
& 9.12						1-34 6-7	*	01-1599		completed in U1R8
						6-7 3-30	01-1356	01-1399		
						4-30	01-1359 01-1357 01-1360	01-1291		
						7-7	*	01-1599		
						17-2	01-1361 01-1362	01-1291		
			Two	6	0	16-1		MT-02-179		
1				-		17-1		MT-02-181		
						18-1		MT-02-178		
l						19-1		MT-02-180		
ĺ	20	PZR Surge	One	1	1	20-1	01-1289	01-1232		
	21	SD Cooling 1	One	3	3	6-11	01-1380 01-1383	01-1275		
I						21-18	01-1381	01-1275		
					_	21-20	01-1382	01-1275		
1			Two	2	2	21-14	UT-02-190	PT-02-119		
						21-15	UT-02-191	PT-02-120		
İ	22	SD Cooling 2	One	2	1	22-11	99-1600	99-1590		

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INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
tem no			_ FEI	ITEG	ООПР	22-14	99-1599	99-1590		
						22-23	01-1510 01-1511	01-1327		Needs PDI re-exam Needs PDI re-exam
			Two	3	0	22-1		PT-02-103		
			_			7-9		PT-02-105		
						22-18		PT-02-112		
	23	SI 1A	One	4	3	9-10	01-1541	01-1007		
						02.1	01-1542 01-1543	01-1007		
						23-1 23-2	01-1544	01-1007		
						23-2 23-4	01-1545	01-1007		Needs PDI re-exam
						20 4	01-1546			Needs PDI re-exam
			Two	0	0	23-6	UT-02-287	PT-02-172		Aug. Limited UT
							UT-02-289			exam
	24	SI 1B	Two	3	3	24-6	UT-02-179	PT-02-116		Aug. Limited UT
	_						UT-02-182	TOTAL 0.00		exam Limited UT exam
						24-14	UT-02-185	PT-02-098		Limited O1 exam
						24-16	UT-02-189 UT-02-177	PT-02-101		Limited UT exam
						24-10	UT-02-188	1 1-02-101		Dimined Of them.
						24-19	UT-02-176	PT-02-099		Limited UT exam
						24-17	UT-02-178			
	25	SI 2A	One	2	2	25-26	99-1512	99-1503		
	20	01211	0	_		25-27	99-1617	99-1606		
						25-29	99-1618			
			Two	4	4	25-1	UT-02-227	PT-02-145 PT-02-146		Limited UT exam
						25-4	UT-02-224	P1-02-140		Limited OI exam
						25-6	UT-02-226 UT-02-221	PT-02-173		Limited UT exam
						23-0	UT-02-222	11-02-173		Dilliton of the
						13-10	UT-02-228	PT-02-174		
	26	SI 2B	One	2	2	26-9	99-1615	99-1586		
	20	0120	00	_	_	26-11	99-1616	99-1586		
			Two	1	1	26-6	UT-02-181	PT-02-114		Aug. Limited UT
							UT-02-184	DOD 00 112		exam Limited UT exam
						26-17	UT-02-180	PT-02-113		Limited O1 exam
			_	•	2	29-10	UT-02-183 99-1467	99-1436		
	29	PZR Spray	One	2	2	29-10 29-11	99-1468	99-1436		
			Two	1	0	29-1	UT-02-233	PT-02-149		PSE, Need PDI re-
			140	•	•		UT-02-234			exam
						29-2	UT-02-235	PT-02-150		PSE, Limited UT
							UT-02-236			exam, Need PDI
										re-exam
						29-9	UT-02-237	PT-02-148		PSE, Need PDI re- exam
			_			21.1	UT-02-239 01-1220	01-1010		exam
	31	PZR Safeties	One	1 2	1 2	31-1 31-9	UT-02-249	PT-02-156		
			Two	L	4	31-10	UT-02-256	PT-02-157		
	36	Letdown Line	Two	1	1	36-75	UT-02-223	PT-02-144		
B 9.21	30 27	PZR Spray 1A	One	4	4	9-11	,	01-1044		
& 9.21	41	i ant Opiny In		-	•	27-42		01-1044		
CC 7.22						27-43		01-1044		
						27-44		01-1044		
	28	PZR Spray 1A	One	4	4	28-31		99-1459		
						28-32		99-1459		
						28-39		99-1437		
			_	-		28-40		99-1437 PT-02-167		
			Two	4	4	28-9 28-11		PT-02-167 PT-02-168		
						28-11 11-11		PT-02-115		
						28-20		PT-02-169		
	30	Aux PZR Spray	One	2(2)	2(2)	30-7		99-1233		()Identifies augmen
	JU	WAY I THE OHIER	Jilo	-(-)	_(=/	30-13		99-1233		
						30-1	01-1621	01-1640		88-08
							01-1623			88-08
						30-2	01-1622	01-1640		88-08 88-08
							01-1624			XI L.X.X

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INSERVICE INSPECTION SUMMARY REPORT

								Reports		
ASME Item no	Zone	Comp/Sys	insp Per	Amt Reg	Amt Comp	item ID	Vol	Surf	Visual	Remarks
item no			Two	2	2 (2)	30-5		PT-02-153		
						30-6		PT-02-154		
						30-1	UT-02-229	PT-02-151		PSE, IEB 88-08,
						30-2	UT-02-230 UT-02-231 UT-02-232	PT-02-152		Limited UT exam PSE, IEB 88-08, Limited UT exam
	32	Drain 1A	One	3	3	8-18	01-02-232	99-1504		Emined OT train
	32	או וושוע	Olic	,	,	32-1		99-1504		
						32-2		99-1504		
	33	Drain Line 1B	Two	3	3	33-1		PT-02-106		
						33-5		PT-02-107		
				_	_	10-18		PT-02-104		
	36	Letdown Line	One	2	2	36-8		01-1186		
			T	8	8	36-9 36-25		01-1186 PT-02-138		
			Two	0	0	36-26		PT-02-139		
						36-28		PT-02-141		
						36-35		PT-02-142		
						36-43		PT-02-085		
						36-44		PT-02-086		
						36-45		PT-02-087		
			_	_	_	36-80		PT-02-088		
	37	Charging	One	5	5	37-41 37-42		99-1301 99-1301		
						37-42 37-43		99-1301		
						37-45		01-1045		
						37-46		01-1045		
						37-47		01-1045		
			Two	7	7	13-11		PT-02-128		
						37-28		PT-02-122		
						37-29		PT-02-123		
						37-30		PT-02-124		
						37-32 37-33		PT-02-125 PT-02-126		
						37-33 37-34		PT-02-120 PT-02-127		
	38	Drain Line 1	Two	1	1	38-1		PT-02-170		
	39	HPSI A	One	2	2	39-1		99-1234		
	<i>37</i>		•	_		39-5		99-1234		
			Two	3	3	39-12	UT-02-290	PT-02-131		
						39-13	UT-02-292	PT-02-175		
						39-24	UT-02-302	PT-02-162		Limited UT exam
			•	•	2	40.1	UT-02-303	01-1043		
	40	HPSI B	One	3	3	40-1 40-2		01-1043		
						40-3		01-1043		
			Two	2	2	40-6	UT-02-285	PT-02-163		
				_	_	40-7	UT-02-288	PT-02-164		
B 9.31	06	RCS Piping	One	1	1	9-8	01-1355	01-1291		
				•	•	12.0	01-1358	MT-02-176		Limited UT exam,
			Two	1	0	13-8	UT-02-212	M11-02-170		Re-examine weld
B 9.32	06	RCS Piping	One	1	1	8-17		99-1505		
			Two	1	1	13-9		MT-02-177		
	22	SD Cooling	One	1	1	22-7A		99-1607		
	36	Letdown	Two	2	2	36-41		PT-02-084		
		.	_			36-76		PT-02-143		
B 9.40	32	Drain 1A	One	1	1	32-6 32-8	•	99-1504 99-1504		
	22	Drain Line 1B	Two	1	1	32-6 33-6		PT-02-108		
	33 34	Drain Line 15 Drain Line 2A	Two	1	i	34-6		PT-02-171		
	38	Drain 1	One	ī	ī	38-5		01-1041		Removed
						38-12		01-1500		PSE
		Letdown	One	1	1	RC91H5		99-1591		
B 10.10	36					RC91H6		99-1591		
В 10.10	36									04 M MM 311110
			Two	1	1	RC91H6		PT-02-089	00 1407	91% CC N460
B 10.10	36 18	RCP 2A	Two One	When		Bowl		PT-02-089	99-1497	91% CC N460
B 12.20	18	RCP 2A	One	When Disass	embled	Bowl Interior		P1-02-089		
				When Disass When	embled	Bowl		P1-02-089	99-1497 VT-02-523	91% CC N460 Internal surfaces

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	insp Per	Amt Reg	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 14.10	02	Closure Head	One	2	2	2-9 2-9	01-1519 01-1519	01-1655 01-1655		CEDM 84 CEDM 88
				2	2	2-10 2-10	01-1518 01-1518	01-1655 01-1655		CEDM 84 CEDM 88
			Two	2	2	2-9 2-9	UT-02-206 UT-02-207	PT-02-136 PT-02-137		CEDM 83 CEDM 91 CEDM 83
				2	2	2-10 2-10	UT-02-203 UT-02-204	PT-02-134 PT-02-135	00 1505	CEDM 91
B 15.10, 20, 30, 40, 50, 60 & 70	Various	RCS Piping	One	ALL	ALL	Press Bound			99-1585 99-1647 99-1711 01-1012 01-1013 01-1557 01-1627 01-1628 01-1629 01-1630	RR#11 & 12 SIBPSV169 disass reject
									01-1646 01-1647	
			Two	100%	•	Press Bound			VT-02-698	*100% ea. outage
B Flywh	16	RCP 1A	One	1	1	Flywheel	01-1273			
•			Two	1	1	Flywheel	UT-02-201			
	17	RCP 1B	One	1 1	1 1	Flywheel Flywheel	01-1363 UT-02-202			
	18	RCP 2A	Two One	1	1	Flywheel	01-1364			
	10	RCF 2A	Two	i	î	Flywheel	UT-02-208			
	19	RCP 2B	One	1	1	Flywheel	01-1434			
			Two	1	1	Flywheel	UT-02-205		00 1394	
F 1.10	20	PZR Surge	One	2	2	RC28H1 RC28H2			99-1284 99-1218 99-1227	
	21	SD Cooling A	One	7	7	SI240H10 SI240H11 SI240H13 RC51H1 RC51H2 RC51H3 RC51H821			99-1226 99-1225 01-1182 01-1181 01-1180 01-1433	Support Deleted
			Two	7	7	RC51H2 RC51H3 RC51H4 RC51H5 RC51H6			VT-02-640 VT-02-429 VT-02-422 VT-02-423 VT-02-703	Expansion Expansion Support Deleted PSE
						RC51H822 SI240H1 SI240H2			VT-02-474 VT-02-430 VT-02-425	Support Deleted
						SI240H3 SI240H4			VT-02-431 VT-02-605 VT-02-433	Reject Re-exam Expansion
						SI240H5			VT-02-432 VT-02-607 VT-02-434	Reject Re-exam Support Delete
						SI240H6			VT-02-434 VT-02-435	Expansion
						SI240H7 SI240H9			VT-02-659	Expansion
						SI240H10			VT-02-661	Expansion
						SI240H11			VT-02-662	Expansion
						S1240H12			VT-02-424	Support Delete
						S1240H823 S1240H824			VT-02-427 VT-02-428	
	22	SD Cooling B	One	4	4	RC68H5			01-1177	
	22	3D Cooling D	Oile	- r	•	RC68H6			01-1176	Support Deleted
						SI193H17			01-1178	Our care to
					_	SI193H19			01-1179 VT 02.663	Support Deleted Expansion
			Two	4	4	RC68H3			VT-02-663 VT-02-496	Expansion Rej
						SI193H8			VT-02-450 VT-02-652	Re-exam
						SI193H9			VT-02-497	RR #4
						SI193H17			VT-02-664	Expansion

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INSERVICE INSPECTION SUMMARY REPORT

SME	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
em no			1: 61	4	p	SI193H20			VT-02-508	
						SI193H23			VT-02-665	Expansion
						SI193H25			VT-02-498	Support Deletee
	23	SI 1A	One	1	1	S1207H5			01-1005	Support Deleted
		- 	Two	2	2	SI207H3			VT-02-666	Expansion
						SI207H7			VT-02-509	
						SI207H11			VT-02-510	
	24	SI 1B	One	2	2	SI223H3			99-1230	0 Daland
						S1223H4			99-1229	Support Deleted
			Two	2	2	SI223H1			VT-02-475	Commant Dalata
						SI223H2			VT-02-477	Support Delete
	25	SI 2A	One	2	2	S1156H7			99-1221 99-1220	Support Deleted
						SI156H9				Francien
			Two	1	1	SI156H9			VT-02-667 VT-02-511	Expansion
				_	_	SI160H1				Support Deleted
	26	SI 2B	One	2	2	SI179H9			99-1223 99-1222	Support Deleted
				_	_	SI179H11			VT-02-507	Rej
			Two	3	3	SI175H021			VT-02-655	Re-exam
						CT486TY00			VT-02-512	Support Delete
						SI175H22			VT-02-512	Dabbors Desert
						SI175H23 SI179H11			VT-02-669	Expansion
		non e	A	9	9	RC62H26			99-1209	
	27	PZR Spray 1A	One	y	y	RC62H27			99-1208	
						RC62H28			99-1207	
						RC62H29			99-1206	Support Deleter
						RC62H30			99-1205	
						RC62H3I			99-1204	Support Deleter
						RC62H32			99-1203	••
						RC62H33			99-1202	
						RC62H34			99-1262	Support Deleter
			Two	8	8	RC16H5			VT-02-537	
			140	·	•	RC16H6			VT-02-608	
						RC16H7			VT-02-609	
						RC16H15			VT-02-536	Support Delete
						RC62H35			VT-02-610	
						RC62H36			VT-02-611	Support Delete
						RC62H37			VT-02-612	
						RC62H38			VT-02-613	
	28	PZR Spray 1B	One	9	9	RC17H24			99-1217	
						RC17H34			99-1216	
						RC17H35			01-1172	
						RC17H36			99-1215	
						RC17H38			99-1214	Support Delete
						RC17H39			99-1213	auppoir Delete
						RC17H40			99-1212	Support Delete
						RC17H41			99-1211 99-1210	Support Detect
					_	RC17H42				
			Two	8	8	RC17H43			VT-02-616 VT-02-617	Support Delet
						RC17H44			VT-02-618	Dupport Delet
						RC17H45			VT-02-619	
						RC17H46			VT-02-620	
						RC18H9 RC18H10			VT-02-534	Support Delet
						RC18H11			VT-02-621	Support Delet
						RC18H12			VT-02-535	
		P/TD 0	0	2	2	RC18H16			99-1439	
	29	PZR Spray	One	2	2	RCI8H18			99-1440	
	25	Dunin 1 A	One	2	2	RC60HA			99-1326	Support Delete
	32	Drain 1A	One	4	-	RC60HB			99-1327	Support Delete
	••	D T I 4D	T	2	2	RC58HA			VT-02-493	
	33	Drain Line 1B	Two	4	*	RC58HB			VT-02-494	Support Dele
		Dunta Time A4	Т	2	2	RC96HA			VT-02-532	
	34	Drain Line 2A	Two	4	4	RC96HB			VT-02-533	Support Dele
		T	One	9	9	RC91H1			99-1592	••
	36	Letdown	one	7	7	RC91H5			99-1593	
						RC91H6			99-1594	
						RC91HB			99-1325	Support Delet

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INSERVICE INSPECTION SUMMARY REPORT

								Reports		· · ·
SME	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Surf	Visual	Remarks
em no			rer	Led	Comp	RC91HE			99-1319	Support Deleted
						RC91HY			99-1321	
						RC91HZ			99-1324	
									99-1322	
						RC91HAA				
						RC91HAK			99-1320	
			Two	10	3	RC91H6			VT-02-415	
						RC91HAJ			VT-02-416	
						RC91HP			VT-02-417	
		C1	One	14	14	CH5H2			99-1265	Support Deleted
	37	Charging	One	14	17	CH5H3			99-1266	••
									99-1267	
						CH5H25			99-1268	Support Deleted
						CH5H26				Support Defeted
						CH5H27			99-1269	
						CH5H28			99-1270	
						CH5H30			99-1271	
						CH5H34			99-1272	
									99-1273	
						CH5H35				
						CH5H36			99-1274	
						CH5H42			99-1275	_
						CH5H43			99-1276	Support Deleted
						CH5H44			99-1277	
									99-1264	Support Deleted
				_	_	CH5HAA				Dupport Doiles
			Two	9	9	CH5H13			VT-02-580	
						CH5H17			VT-02-581	
						CH5H18			VT-02-582	
						CH5H19			VT-02-583	
						CH5H20			VT-02-584	
									VT-02-585	
						CH5H21				
						CH5H22			VT-02-586	
						CH5H32			VT-02-587	
						CH5H37			VT-02-588	
	20	HPSI 1	One	4	4	S1248H26			99-1238	Support Deleted
	39	nroi i	One	7	•	SI248H27			99-1237	
									99-1236	
						S1248H28				Cumment Deleted
						SI248H30			99-1235	Support Deleted
						S1248H25			99-1239	
			Two	5	5	SI248H17			VT-02-418	
			140	•	•	SI248H18			VT-02-419	Support Delete
									VT-02-572	••
						SI248H19			VT-02-573	
						S1248H20				
						S1248H29			VT-02-420	
	40	HPSI 2	One	3	3	SI199H13			01-1016	
	40	111 31 2	Olio	-	•	S1199H14			01-1017	
						SI199H21			01-1015	Support Deleted
			_	,					VT-02-574	• •
			Two	4	4	SI199H15			VT-02-575	
						SI199H16				
						SI199H17			VT-02-576	
						SI199H18			VT-02-577	
1 40	2	SG 1	One	1	1	3-40			01-1329	
1.40	3					4-40			VT-02-623	
	4	SG 2	Two	1	1				99-1712	
	5	Pressurizer	One	0	0	5-40				
	16	RCP 1A	One	2	2	16-20			99-1259	
			-			16-21			99-1259	
			Two	4	4	16-12			VT-02-524	
			TWO	-	7	16-13			VT-02-525	
									VT-02-526	
						16-14			VT-02-527	
						16-15				
	17	RCP 1B	One	2	2	17-20			99-1260	
	••		3			17-21			99-1260	
			Two	4	4	17-12			VT-02-528	
			Two	•	-	17-13			VT-02-529	
						17-13			VT-02-530	
						17-14				
						17-15			VT-02-531	
	18	RCP 2A	One	4	4	18-12			99-1663	
	10	NOI AN	0	-		18-13			99-1663	
						18-14			99-1663	
									99-1663	
						18-15				
			Two	2	2	18-20			VT-02-643	
			1110	_	-	18-21			VT-02-645	

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INSERVICE INSPECTION SUMMARY REPORT

ASME	7000	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
ASME tem no	Zone	Comprays	Per	Req	Comp					
	19	RCP 2B	One	4	4	19-12 19-13 19-14			99-1664 99-1664 99-1664	
			Two	2	2	19-15 1 9-2 0			99-1664 VT-02-646	
						19-21			VT-02-647	
ASME CI	ass 2									
C 1.10	41	SG 1	One	2	2	41-3	01-1384 01-1387 01-1390 01-1408	·	•	Examined 0°-180°
						41-4	01-1385 01-1388 01-1391 01-1407			Examined 0°-180°
	68	Regen HTEXCH	Two	3	3	68-3 68-5 68-7	UT-02-194 UT-02-196 UT-02-198			
	69	Letdown HTEXCH	One	1	1	69-1	99-1485			Examined 0°-180°
C 1.20	41	SG 1	One	i	1	41-5	01-1386			Examined 0°-180°
							01-1389			
							01-1392 01-1393			
							01-1394			
							01-1395			
							01-1409			
				•	•	68-4	01-1410 UT-02-195			
	68	Regen HTEXCH	Two	2	2	68-6	UT-02-197			
C 1.30	41	SG 1	One	1	1	41-1	01-1206			Examined 0°-180°
0 1.50	••						01-1207			
							01-1219 01-1241			
	42	SG 2	Two	1	1	42-1	UT-02-261			Examined 0°-180
	42	3G 2	1 W U	•	•		UT-02-258			
							UT-02-259			
			_			60 1	UT-02-275 UT-02-192			
	68	Regen HTEXCH	Two	4	4	68-1 68-2	UT-02-192			
						68-8	UT-02-199			
						68-9	UT-02-200			
	69	Letdown HTEXCH	One	1	1	69-2	99-1484	A1 1000		Examined 0°-180
C 2.21	41	SG 1	One	1	1	41-34	01-1279 01-1280	01-1008		
	42	SG 2	One	1	1	42-35	01-1281	01-1009		
		555					01-1282	01.1445		
C 3.10	41	SG 1	One	1	1	41-42 68-10		01-1447 PT-02-132		96% CC N460
	68	Regen HTEXCH	Two	2	2	68-11		PT-02-133		96% CC N460
C 3.20	44	MS SG1 270	Two	1	1	SG33H16		MT-02-184		
	45	MS SG2 270	One	1	1	SG42H14		99-1430		
			Two	2	2	SG42H15		MT-02-185 MT-02-186		
		Foodmater CC 2	One	1	1	SG42H16 SG5H9		01-1184		
	55	Feedwater SG 2	Oik			5-55-17		01-1185		
	64	Blowndown SG 1	One	3	3	SG39H15		01-1298		
								01-1302		Support Deleted
						SG39H17		01-1303 01-1002		Support Deleted
			Two	2	2	SG53H1 SG39H1		MT-02-203		Dallan Parent
			Two	2	4	SG53H5		MT-02-200		
								PT-02-176		
	65	Blowdown SG 2	One	2	2	SG48H20		01-1295		Support Deleted

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INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp	Amt	Amt Comp	item ID	Vol	Reports Surf	Visual	Remarks
Item no			Per	Req	Comp	SG52H1		01-1003		Support Deleted
		- marm: 1	Δ	•	1	SI87H11		99-1435		Dupport Deleted
	71	LPSI Discharge	One	1 1	1	SI9H4		99-1373		
	76	CS Suction	One	1	1	SI72H13		99-1516		
	88	East Wrap	One			SI194H14		99-1619		
	89	East Wrap	One	1	1			99-1374		
	91	West Wrap	One	4	4	S170H9				
						S170H11		99-1256		
						SI70H12		99-1456		
						S170H16		99-1256		
	92	West Wrap	One	1	1	SI241H21		99-1605		
	94	SI A	Two	2	2	S1070H5		PT-02-121		
						S1070H8		PT-02-130		
	99	LPSI to Loop 2B	Two	1	1	SI174H13		PT-02-129		
	100	LPSI Suction	One	1	1	SI369H1		99-1457		
	100	La Si Succion	Two	i	1	84-5		PT-02-178		
	102	SI Suction	One	3	3	SI307H2		01-1446		
	102	21 20ction	Oile	3	,	SI307H3		01-1446		
						SI307H15		01-1446		
		5 6 10 at 4	70	•	1	CH424H6		PT-02-118		
	103	Refuel Suction A	Two	2				PT-02-159		
	104	SI Suction B	Two	1	1	SI308H3		01-1198		Limited exam
	113	HPSI Discharge	One	1	1	SI107H22				Lambor Calli
C 3.30	72	LPSI Pump A	One	3	3	72-3A		01-1471		
						72-3B		01-1471		
						72-3C		01-1471		
	116	HPSI Pump A	One	4	4	116-1A		01-1473		Limited exam
		•				116-1B		01-1473		
						116-1C		01-1473		
						116-1D		01-1473		Limited exam
C 4.40	47	Main Steam SG 1	One	20	20	UV170	01-1372			
C 4.40		Main Steam SG 1	One	20	20	UV180	01-1373			
	48			40	40	V132	UT-02-209			20 Studs
	56	Feedwater SG 1	Two	40	40	V132 V174	UT-02-210			20 Studs
			_	_	-	59-1	UT-02-219	PT-02-140		PSE
C 5.11 & 5.12	59	Aux & Dwncmr SG2	Two	2	2	39-1	UT-02-220 UT-02-225	1 1-02-1-0		102
						59-16	UT-02-159 UT-02-160 UT-02-161	PT-02-097		PSE, AUG (IEB 79-13)
						59-16A	UT-02-273	PT-02-160		PSE, AUG (IEB 79-13)
						59-16C	UT-02-274	PT-02-161		PSE
						59-34	UT-02-283	PT-02-091		
							UT-02-284			
			0	1	0	63-4	01-1525	01-1188		needs PDI re-exam
	63	Aux Feed SG 2	One	1	U	03-4	01-1526	01-1100		
			_			50.60		99-1257		
	70 & 7 3	LPSI Suction A & B	One	1	1	70-58	99-1258			
			Two	1	1	70-56	UT-02-174	PT-02-111		
					_		UT-02-175	00 1017		
	82 & 85	SD Cooling A & B	One	2	2	72-50	99-1372	99-1316		
						73-49	01-1428	01-1189		
	83 & 86	SD Cooling A & B	One	4	4	74-19	99-1381	99-1315		
		-				74-21	99-1383	99-1317		
						74-22	99-1384	99-1317		
						74-105	99-1382	99-1314		
	88 & 91	East & West Wrap	One	6	6	78-16	99-1604	99-1515		
	JU UL 71	ment of 11 page 111 mb		~		74-44	99-1311	99-1279		
						76-2	99-1310	99-1279		
						76-21	01-1535	01-1190		
							01-1547			
						77-7	01-1521	01-1371		Limited exam
						, , - ,	01-1521	01-10/1		
						77-14	01-1522 01-1523 01-1524	01-1371		Limited exam
			_			74 40		01-1430		
	94 & 95	SI A & B	One	1	1	74-40	01-1427			
			Two	2	2	74-37	UT-02-172	PT-02-109		
						74-38	UT-02-173 UT-02-170 UT-02-171	PT-02-110		
							U1-02-1/1			

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INSERVICE INSPECTION SUMMARY REPORT

SME	Zone	Comp/Sys	insp Per	Amt Req	Amt Comp	item ID	Vol	Reports Surf	Visual	Remarks
tem no	96,97,98 & 99	LPSI Loop 1A, 1B, 2A, 2B	One	3	3	78-45	99-1513	99-1502		
						78-47 79-23	99-1514 01-1276 01-1277	99-1502 01-1293		
			Two	2	2	77-22 77-27	UT-02-162 UT-02-163	PT-02-095 PT-02-096		Limited UT exam
	100	LPSI A Suction	Two	2	2	70-121	UT-02-164 UT-02-165 UT-02-166	PT-02-093		Limited UT exam
						84-3	UT-02-291 UT-02-293	PT-02-177		Limited UT exam
	102	SI Suction A	One	1	0	84-12	01-1487 01-1488	01-1191		needs PDI re-exam
		D C 1 D wise A	Two	1	0 1	84-26 86-57	UT-02-150 UT-02-169 01-1305	PT-02-090 01-1300		Re-examine weld
	103	Refuel. Suction A	One Two	1 1	i	86-1	UT-02-186 UT-02-187	PT-02-117		Limited UT exam
	104	SI Suction B	One	1	1	85-46	01-1307 01-1308 01-1309	01-1301		Limited exam
			Two	1	1	85-31	UT-02-276 01-1306	PT-02-158 01-1192		
	105	Refuel. Suction B	One Two	1 1	1	87-23 87-37	UT-02-277 UT-02-279	PT-02-165		
C 5.21	106 & 107	HPSI Discharge A & B	One	4	4	106-1	01-1244 01-1248 01-1252	01-1193		Limited exam
						106-21	01-1254 01-1257 01-1260	01-1193		Limited exam
						107-11	01-1245 01-1249 01-1253	01-1194		Limited exam
						107-42	01-1225 01-1226 01-1227	01-1194		Limited exam
	108 & 109	HPSI	One	2	2	109-4 109-21	01-1246 01-1250 01-1489	01-1195 01-1502		Limited exam
	110 & 111	HPSI	One	2	2	110-6	01-1247 01-1251	01-1229		Limited exam
	•••					110-39	01-1261 01-1263 01-1265	01-1196		Limited exam Limited exam
	112 & 113	HPSI Discharge A & B	One	3	3	112-1	01-1255 01-1258	01-1197		Limited exam
	***					112-33 112-34	01-1259	01-1197 01-1183 01-1374		Limited exam
						112-45	01-1256 01-1262 01-1264 01-1266	01-1197		Limited exam
	114 &115	HPS11A, 1B, 2A & 2B	One	1	1	115-13	01-1310 01-1311	01-1274		Limited exam
	oc.113	4 0	Two	1	1	115-20	UT-02-298 UT-02-299	PT-02-102		Limited UT exam
	118& 119	HPSI Long Term	Two	4	2	118-49 119-52	UT-02-167 UT-02-168 UT-02-300	PT-02-094 PT-02-166		Limited UT exa
C 5.30	106&107	HPSI Discharge A &	One	1	ı	107-53	UT-02-301	01-1194		
		B SD Cooling A & B	0	1	1	72-49A		99-1316		
	& 82 & 85 88 & 91	SD Cooling A & B East & West Wrap	One One	1	1	74-102		99-1279		
5.42	88 & 91 96	LPSI to Loop 1A	Two	1	i	76-78		PT-02-100		
C 5.51		MS SGI 90	One	ī	1	43-2	99-1443	99-1432		

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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
5.52	44	MS SG1 270	One	1	1	44-1	99-1442	99-1431		
3.32	44	M3 301 270	Two	2	2	44-5	UT-02-217	MT-02-182		
			200	•	_	44-30	UT-02-218	MT-02-183		
	46	MS SG2 90	One	1	1	46-25	99-1444	99-1433		
	54	Feedwater SG 1	One	1	1	54-41	01-1520	01-1296		
	J-1	1000				54-10	01-1616	01-1610		PSE (Vol is RT)
						54-11A	01-1613	01-1610		PSE
						54-24	01-1617	01-1610		PSE (Vol is RT)
						54-25A	01-1614	01-1610		PSE
			Two	2	2	54-1	UT-02-296	MT-02-201		PSE
			140	-	-	54-11A	UT-02-295	MT-02-202		
	55	Feedwater SG 2	One	2	2	55-1	01-1204	01-1001		
	33	recuwater 50 2	One	-	_	55-15	01-1205	01-1001		
						55-10	01-1620	01-1532		PSE (Vol is RT)
						55-11	01-1618	01-1532		PSE (Vol is RT)
						<i>JJ</i>	01-1619			
			Two	1	1	55-26	UT-02-294	MT-02-196		PSE
	**	e D CC1		1(5)	1(5)	41-39	99-1495	99-1508		()Identifies augment
	58	Aux & Dwncmr SG1	One	1(2)	1(3)	58-1	99-1494	99-1501		EXAM (IEB 79-13
						58-12	99-1286	99-1231		& SER 83-07)
						58-12 58-13	99-1289	99-1231		
						58-16	01-1529	99-1285		
						20-10	J1-1J27	01-1297		
						60 16 A	01-1528	99-1285		
						58-16A	UI-1320	01-1297		
						£0.6	01 1550	01-1297		PSE (Vol is RT)
						58-6	01-1559	01-1330		I OL (TOLIA IVI)
							01-1560			
							01-1561	01 1520		PSE (Vol is RT)
						58-35	01-1562	01-1530		
						58-36	01-1563	01-1530		PSE (Vol is RT)
			Two	0(5)	0(4)	58-12	UT-02-157	MT-02-161		AUG (IEB 79-13)
						58-13	UT-02-158	MT-02-162		AUG (IEB 79-13)
						58-16	UT-02-156	MT-02-163		AUG (IEB 79-13)
						58-16A	UT-02-155	MT-02-164		AUG (IEB 79-13)
	59	Aux & Dwncmr	One	0(5)	0(5)	59-1	99-1496	99-1507		
		SG2					01.1644	01 1521		PSE (Vol is RT)
						59-2	01-1641	01-1531		L9E (A01 12 K1)
						59-12	99-1292	99-1232		
						59-13	99-1293	99-1232		
						59-16	99-1290	99-1198		DOE
							01-1512	01-1231		PSE
							01-1514			
							01-1516			
					•	59-16A	99-1291	99-1198		
							01-1513	01-1231		PSE
							01-1515			
							01-1517			
						59-6	01-1417	01-1375		PSE
						*	01-1419			
							01-1421			
							01-1424			
						59-35	01-1418	01-1375		PSE
							01-1420			
							01-1422			
							01-1425			
						59-36	01-1423	01-1375		PSE
						J7-JU	01-1426			
							01-1420			
			_	4 /80	470	ED 12	01-1321	MT-02-197		AUG (IEB 79-13)
			Two	1(5)	1(0)	59-12 50-13		MT-02-198		AUG (IEB 79-13)
i						59-13	TPT 02 121	MT-02-160		.140 (111 17 10)
1						59-25	UT-02-151	N11-U4-10U		
i							UT-02-152	01 1000		
i	64	Blowdown SG 1	One	1	1	64-1	01-1242	01-1002		
l	65	Blowdown SG 2	One	1	1	65-28	01-1243	01-1003		
ı			Two	1	1	65-52	UT-02-153	MT-02-159		
							UT-02-154			
C 6.10	116	HPSI Pump A	by end o	of interval	116-2		01-1473		•	
C 6.10 C 7.10	116 N/A	HPSI Pump A Pressure Vessels	by end o	of interval All All	116-2 Ali	Press Bound Press Bound	01-1473		*	

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SME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
em no			<u>Per</u>	Req	Comp				*	
7.50	N/A	Pumps	One One	All All	All All	Press Bound Press Bound				* see list by system
7.70	N/A	Valves	One	All	All	AF			01-1635	
									01-1636	4470 1.3
			Two	All	**	AF			VT-03-007 01-1012	**Period Requirement
			One			СН			01-1642	Partially completed
									VT-03-002	
									VT-03-003	
									VT-03-005 VT-03-004	
			Two	All	**	CH			VT-03-004 VT-03-006	
									VT-03-010	
									VT-03-011	
									VT-03-012 VT-03-013	
									VT-03-015	
									VT-03-016	
									VT-03-017	
									VT-03-018 VT-03-019	
									VT-03-019	
									VT-03-021	
									VT-03-022	
									VT-03-024 VT-03-028	
									VT-03-028 VT-03-031	
									VT-03-032	
									VT-03-033	
									VT-03-034 VT-03-035	
			0	All	All	CL			01-1644	
			One	All	All	CL			01-1648	
									01-1653	
						CP			01-1485 01-1486	
									01-1625	
									01-1626	
						DW			01-1319	
						FP			01-1317 01-1440	
						GA			01-1440	
						GR			01-1432	
						HC			01-1436	
									01-1437 01-1507	
									01-1536	
									01-1649	
						•			01-1650 01-1011	
						HP			01-1011 01-1496	
									01-1537	
									01-1645	
									VT-03-001	
			Two	All	**	HP			VT-03-029 VT-03-030	
			One	All	All	IA			01-1320	
			Olic	2311	- 445				01-1321	
						NC			01-1318 01-1323	
						PC			01-1324	
									01-1325	
						RC			01-1326	
									01-1557	
						90			01-1627 01-1597	
						RD SG			01-1631	
									01-1638	
			Two	All	**	SG			VT-03-008	

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ASME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
tem no			Per	Req	Comp				VT-03-009	
									VT-03-023	
									VT-03-025	
									VT-03-026	
									VT-03-027	
			One	Ali	All	SI			01-1013 01-1014	
									01-1014	
							•		01-1312	
									01-1444	
									01-1504	
									01-1508	
									01-1509	
									01-1538	
									01-1539	Da anam VT 1
									01-1615	Re-exam VT-1
									01-1629 01-1630	
									01-1632	
									01-1633	
									01-1646	
									01-1647	
						SS			01-1634	
						WC			01-1445	
F 1.20	43	MS SG 1 90	One	2	2	SG36H17			99-1240	
						SG36H884			99-1242	
					_	SG36H885			99-1241 VT-02-622	RR #4
			Two	1	1	SG36H11			99-1278	1010 117
	44	MS SGI 270	One	2	2	SG33H17 SG33H18			99-1243	Support Deleted
			m	3	3	SG33H16			VT-02-694	RR #4
			Two	3		SG33H881			VT-02-693	RR #4
						SG33H882			VT-02-695	RR #4
	45	MS SG 2 270	One	1	1	SG42H14			99-1244	
	7.5	1110002210	Two	3	1 -	SG42H11			VT-02-690	RR #4
	46	MS SG 2 90	One	2	2	SG45H17			99-1441	Current Deleted
				_	_	SG45H18			99-1463 VT-02-691	Support Deleted RR #4
			Two	3	3	SG45H11 SG45H887			VT-02-689	RR #4
						SG45H888			VT-02-692	RR #4
		N	One	1	1	SG206H1			99-1318	
	47	MS SG1 270 Atm Dump SG1	One	i	1	SG59H6			99-1575	
	51 52	Atm Dump SG2	One	Ö	i	SG103H6			01-1566	PSE
	53	Steam to Aux FW	One	4	4	SG81H1			99-1679	
	33	Oldani to Tient				SG81H2			99-1680	
						SG83H1			99-1681 99-1682	
				_	_	SG83H2			VT-02-602	Support Deleted
			Two	2	2	SG81H4 SG83H4			VT-02-603	Support Deleted
		n 1	0	~	7	SG83H4 SG2H2			01-1602	Expansion
	54	Feedwater SG 1	One	7	,	SG2H2 SG2H4			01-1022	- •
						SG2H5			01-1021	
						SG2H12			01-1062	Reject
									01-1603	Re-exam
						SG2H13			01-1020	
						SG2H14			01-1019	
						SG2H15			01-1018 01-1025	
						SG2H803			01-1023	Expansion
			_	•	Λ	SG13H1			01-1012	
	55	Feedwater SG 2	One	9	9	SG5H9 SG5H10			01-1173	
						SG5H11			01-1175	
						SG5H12			01-1036	
						SG5H14			01-1477	PSE
						SG5H805			01-1037	
						SG5H809			01-1038	
						SG5H812			01-1039	
						SG14H1			01-1034	
						SG14H804			01-1035	

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INSERVICE INSPECTION SUMMARY REPORT

ttem no	58	Aux & Dwnemr SG1	Two Two	7 7	7 7	SG5H4 SG5H5 SG5H6 SG5H7 SG5H8 SG5H13 SG5H14 SG8H2 SG8H3 SG8H4 SG8H5		VT-02-559 VT-02-560 VT-02-656 VT-02-561 VT-02-562 VT-02-563 VT-02-657 VT-02-565 01-1604	Reject Re-exam RR #4 RR #4 Reject Re-exam
	58		One			SG5H6 SG5H7 SG5H8 SG5H13 SG5H14 SG8H2 SG8H3 SG8H4		VT-02-656 VT-02-561 VT-02-562 VT-02-564 VT-02-563 VT-02-565 01-1604	Re-exam RR #4 RR #4 Reject
	58			7	7	SG5H6 SG5H7 SG5H8 SG5H13 SG5H14 SG8H2 SG8H3 SG8H4		VT-02-561 VT-02-562 VT-02-564 VT-02-563 VT-02-657 VT-02-565 01-1604	RR #4 RR #4 Reject
	58			7	7	SG5H7 SG5H8 SG5H13 SG5H14 SG8H2 SG8H3 SG8H4		VT-02-562 VT-02-564 VT-02-563 VT-02-657 VT-02-565 01-1604	RR #4 Reject
	58			7	7	SG5H7 SG5H8 SG5H13 SG5H14 SG8H2 SG8H3 SG8H4		VT-02-564 VT-02-563 VT-02-657 VT-02-565 01-1604	Reject
	58			7	7	SG5H13 SG5H14 SG8H2 SG8H3 SG8H4		VT-02-563 VT-02-657 VT-02-565 01-1604	Reject
	58			7	7	SG5H14 SG8H2 SG8H3 SG8H4		VT-02-657 VT-02-565 01-1604 01-1606	
	58			7	7	SG8H2 SG8H3 SG8H4		VT-02-565 01-1604 01-1606	Ke-exam
	58			7	7	SG8H2 SG8H3 SG8H4		01-1604 01-1606	
	58			7	7	SG8H3 SG8H4		01-1606	
59		SGI	Two			SG8H4			
59		·	Two			SG8H4			
59		·	Two					01-1608	
59		·	Two					01-1607	
59		·	Two			SG8H20		01-1609	
59			Two			SG8H901		01-1448	
59		·	Two			SG8H903		01-1605	
59			1 WO	7	7	SG8H6		VT-02-520	RR #4
59				•	•	SG8H7		VT-02-449	RR #4
59						SG8H8		VT-02-451	Reject
59						Doomo		VT-02-649	Re-exam
59						SG8H9		VT-02-452	
55						SG8H10		VT-02-453	
59						SG8H11		VT-02-454	
59						SG8H17		VT-02-519	RR #4
J:	<0	Aux & Dwncmr	One	6	6	AF6H1		99-1261	
	J 9	SG2	• • • • • • • • • • • • • • • • • • • •	-					
		502				SG11H8		99-1201	
						SG11H9		99-1246	
						SG11H10		99-1245	
l.						SG11H11		99-1200	
1						SG11H12		99-1199 99- 1332	
					_			VT-02-702	PSE
			Two	6	5	SG11H3		VT-02-566	100
						SG11H13		VT-02-567	
						SG11H14		VT-02-568	
ĺ						SG11H15 SG11H18		VT-02-455	
ł						SG11H19		VT-02-570	
<u>.</u>			0	1	1	SG200H9		99-1668	
6	60	Dwncmr FW SG1	One			SG200H13		99-1669	PSE
						SG200H14		99-1670	PSE
۱ ,		Dwncmr FW SG2	One	0	0	SG203H13		99-1671	PSE
0	61	DWIICHE FW 302	One	•	•	SG203H14		99-1672	PSE
۱ ۵	62	Aux FW SG1	One	1	1	AF4H3		99-1461	
	63	Aux FW SG2	One	2	2	AF6H2		99-1462	
ľ		··· - 				AFI6H1		99-1460	
6	64	Blowdown SG 1	One	12	12	SG39H10		01-1449	Support Deleted
1						SG39H11		01-1450 01-1451	aupport Defered
1						SG39H12		01-1451 01-1452	Support Deleted
1						SG39H13		01-1452 01-1453	Support Deleted
1						SG39H14		01-1453	Support Deleted
1						SG39H15		01-1455	
						SG39H16 SG39H17		01-1456	Support Deleted
I						SG39H26		01-1457	
1						SG53H1		01-1031	Support Deleted
l						SG53H2		01-1032	Support Deleted
						SG53H924		01-1033	*-
1			Two	13	12	SG39H1		VT-02-480	Support Deleted
			# 44.0	40		SG39H2		VT-02-481	Support Deleted
Į						SG39H3		VT-02-482	Support Deleted
						SG39H4		VT-02-483	
						SG39H5		VT-02-484	
1						SG39H6		VT-02-485	Support Deleted
1						SG39H27		VT-02-486	Support Deleted
						SG53H3		VT-02-488	Support Deleted
1						SG53H4		VT-02-489	
1								VT-02-490	

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SME	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
em no			1 61	- 104	-viiip	SG53H6			VT-02-491	Support Deleted
						SG53H7			VT-02-492	Support Deleted
	65	Blowdown SG 2	Опе	12	12	SG48H2			01-1030	Support Deleted
	05	2.0				SG48H3			01-1478	Support Deleted
		•				SG48H4			01-1479	
						SG48H19			01-1480	Support Deleted
						SG48H20			01-1481	Support Deleted
						SG48H21			01-1482	
						SG48H925			01-1029	Comment Dalaced
						SG52H1			01-1026	Support Deleted
						SG52H2			01-1027 01-1483	Support Deleted Support Deleted
						SG52H3			01-1484	Support Deicted
						SG52H4			01-1464	
						SG52H923			VT-02-456	Support Delete
			Two	11	11	SG48H13			VT-02-457	RR #4
						SG48H14			VT-02-458	Support Delete
						SG48H15			VT-02-459	RR #4
						SG48H16			VT-02-460	Support Delete
						SG48H17			VT-02-461	RR #4
						SG48H18			VT-02-461 VT-02-462	Support Delete
						SG48H22			VT-02-462 VT-02-463	RR #4
						SG48H23			VT-02-464	RR #4
						SG48H24			VT-02-465	Support Delete
						SG48H25			VT-02-466	Support Delete
			_		•	SG48H26			VT-02-590	Support
	68	Regen Htexch	Two	2	2	68-10			VT-02-591	
			_		•	68-11			99-1248	
	7 0	LPSI Suction A	One	1	1	SI67H4			99-1428	PSE
			_			S1307H16 S187H11			99-1247 99-	
	71	LPSI Discharge A	One	1	1	310/1111			1375	
			_	-		S178H1			VT-02-541	
			Two	5	5				VT-02-542	
						SI78H2			VT-02-543	
						SI87H1 SI87H2			VT-02-544	
						S187H2 S187H3			VT-02-545	
			_		•	SI308H14			VT-02-546	
	73	LPSI Suction B	Two	1	1	S1903F114 S19H4			99-1376	
	76	CS Suction A	One	1	1	319114			99-1438	
						SI67H1			99-1427	PSE
						\$167H1			99-1426	PSE
			_		4	SI79H1			99-1377	
	77	CS Discharge A	One	4	4	S179H1 S179H2			99-1378	
						SI79H3			99-1379	
									99-1380	
	=0	00 0	0	3	3	S179H4 S134H1			99-1517	
	79	CS Suction B	One	J	,	SI34H2			99-1518	
						SI34H3			99-1519	
	00	CC Disabassa D	One	3	3	SI119H7			99-1527	
	80	CS Discharge B	Olic	J	3	SI119H8			99-1528	
						SI119H9			99-1529	
	00	SD Cooling A	One	2	2	S178H4			99-1296	
	82	SD COOIIIIG A	OIK.	-	_	S178H5			99-1595	
									01-1564	PSE
						SI79H10			99-1297	
									01-1458	
	83	SD Cooling A	One	4	4	S187H9			99-1312	
	0.3	ar coming is		•		S189H1			99-1300	
						S189H2			99-1299	
						S189H3			99-1298	
	85	SD Cooling B	One	3	3	SI119H10			99-1530	
	45			-		S1123H6			99-1531	
						SI123H7			99-1532	
	86	SD Cooling B	One	3	3	SI129H10			99-1406	
	00	SD COOLLING D	JIE		-	S1129H11			99-1405	
						SI129H12			99-1407	
			Two	7	1				VT-02-672	Expansion, R
			Two	7	1	SI129H9 SI135H1				Expansion, R Expansion, R

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ACME	7000	Compleye	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
ASME tem no	Zone	Comp/Sys	Per	Req	Comp					
						SI72H13			99-1534	
						SI72H14			99-1535	
						SI72H21			01-1333	
						S172H22			01-1334	
						S173H1			01-1459	
						S173H2			01-1460	
						S173H3			01-1461	
			Two	0	0	SI72H11			VT-02-685	Expansion, RR #
				•		SI72H13			VT-02-686	Expansion, RR#
						SI72H14			VT-02-687	Expansion, RR#
						S173H2			VT-02-688	Expansion, RR#
	89	East Wrap	One	4	4	S1194H12			99-1536	
	89	East wrap	One	•	•	SI194H13			99-1537	
						SI194H14			99-1640	
						S1194H23			99-1641	
					•				VT-02-668	Expansion, RR #
			Two	0	0	SI194H13			99-1255	
	91	West Wrap	One	7	7	S170H9			99-1254	
						SI70H10			99-1253	
						S170H11				
						S170H12			99-1252	
						SI70H13			99-1249	
						S170H15			99-1251	
						S170H16			99-1250	
	92	West Wrap	One	5	5	SI239H1			99-1673	Expansion
						SI239H2			99-1674	Expansion
						S1239H3			99-1598	
									01-1565	PSE
						SI241H9			99-1418	PSE
						SI241H12			99-1417	PSE
						S1241H14			99-1419	PSE
						SI241H15			99-1597	
						SI241H21			99-1596	
			Two	5	1	SI241H9			VT-02-653	Expansion, RR #
			1 W U	3	•	SI241H12			VT-02-654	Expansion, RR #
						SI241H14			VT-02-658	Expansion, RR
	•					SI241H121			VT-02-660	Expansion, RR
			_	•		S12411121 S189H7			99-1398	
	94	LPSI A	One	3	3				99-1399	
						SI89H8			99-1400	
						S189H9			99-1302	PSE
						S1241H5			99-1423	PSE
						SI241H7			99-1421	PSE
						SI241H8			VT-02-589	130
			Two	7	5	SI70H4				
						S170H5			VT-02-697	
						SI70H8			VT-02-495	DD 44
						SI241H6			VT-02-624	RR #4
						S1241H7			VT-02-642	RR #4
	95	LPSI B	One	6	6	SI72H8			99-1401	
						S172H10			99-1402	
						SI134H11			99-1403	
						SI134H12			99-1404	
						SI194H3			99-1414	
						S1194H5			99-1415	
			Two	10	0	SI72H10			VT-02-644	Expansion, RR
			¥ #10	40	•	SI194H5			VT-02-650	Expansion, RR
	04	I DCI so I con 1 A	One	3	3	SI202H7			99-1342	
	96	LPSI to Loop 1A	Oile	3	J	SI202H8			99-1343	Support Deleted
						S1202H9			99-1344	Support Deleted
			 -	•	7	S1202H1			VT-02-670	Expansion
			Two	8	,	S1202H1 S1202H2			VT-02-467	RR #4
									VT-02-468	RR #4
						SI202H3			VT-02-469	Reject
						S1202H4				Re-exam
									VT-02-651	RR #4
						SI202H6			VT-02-470	
						SI202H7			VT-02-671	Expansion
						SI202H10			VT-02-471	Support Delete
						CTABATT11			VT-02-472	Support Delete
						SI202H11				
						S1202H11 S1202H12			VT-02-673 VT-02-473	Expansion RR #4

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SME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
em no			Per	Req	Comp	SI202H16			VT-02-674	Expansion
						S1202H10 S1202H18			VT-02-676	Expansion
		r nor I In	0	10	10	SI202H16 SI220H8			01-1468	
	97	LPSI to Loop 1B	One	10	10				99-1333	
						SI220H9			99-1334	
						S1220H10				Cunnant Dalatad
						SI220H11			99-1335	Support Deleted
						SI220H12			99-1336	
						SI220H13			99-1337	
						S1220H14			99-1338	Support Deleted
						SI220H15			99-1339	
						SI220H19			99-1340	
									99-1341	Support Deleted
				_	_	S1220H22				2 abborr poroto
			Two	7	7	SI220H1			VT-02-444	B'
						SI220H5			VT-02-677	Expansion
						SI220H16			VT-02-446	RR #4
						SI220H17			VT-02-447	
						SI220H18			VT-02-448	
						S1220H10			VT-02-443	Reject RR #4
						DIALUTAU			VT-02-648	Re-exam
									VT-02-445	Support Delete
						S1220H21				
						SI220H27			VT-02-678	Expansion
						SI220H28			VT-02-450	Support Delete
	98	LPSI to Loop 2A	One	2	2	SI155H5			99-1329	
	70	ביו מי נמ דימה דעו	3.10	-	_	SI155H6			99-1328	
			T	£	1	SI155H6			VT-02-679	Expansion
		- mar :	Two	5					VT-02-680	Expansion
	99	LPSI to Loop 2B	Two	5	4	SI174H4			VT-02-554	Support Delete
						SI174H7				papport Duck
						SI174H8			VT-02-555	C
						SI174H9			VT-02-556	Support Delete
						SI174H11			VT-02-681	Expansion
						SI174H12			VT-02-682	Expansion
						SI174H13			VT-02-558	
		* nor * 0 **	Δ	2	2	SI241H19			99-1330	Reject
	100	LPSI A Suction	One	2	4	012411117			99-1642	Re-exam
									01-1469	Re-exam
										Ve-evanii
						SI369H1			99-1331	
			Two	1	1	84-5			VT-02-696	
	101	LPSI B Suction	Two	ō	ō	SI194H16			VT-02-683	Expansion
	TAT	TI DI D DUCUM	_ 110	-	-	SI194H22			VT-02-684	Expansion
	. ~ ~	OT 0	0	6	6	SI8H4			99-1303	PSÉ
	102	SI Suction A	One	U	U	S19H1			99-1429	PSE
									99-1422	PSE
						SI307H2				PSE
						S1307H5			99-1304	PSE PSE
						SI307H6			99-1425	
						SI307H7			99-1424	PSE
						SI307H2			01-1462	
						SI307H3			01-1463	
						SI307H4			01-1464	Support Delete
						SI307H4 SI307H5			01-1465	••
									01-1466	
						S1307H8			01-1467	
						SI307H15				RR #4
			Two	7	7	SI8H1			VT-02-436	
						SI8H2			VT-02-437	Support Delet
						SI8H3			VT-02-438	RR #4
						SI8H4			VT-02-439	RR #4
						SI307H6			VT-02-440	RR #4
						SI307H7			VT-02-441	RR #4
									VT-02-442	Support Dele
						SI307H14				PSE PSE
	103	Refuel Suction A	One	6	6	CH142H3			99-1420	FOE
						CH142H13			99-1408	
						CH142H14			99-1409	
						CH142H15			99-1410	
									99-1412	
						CH142H19			99-1411	
						CH142H22				
						CH424H1			99-1413	PATE.
						CH424H2			99-1386	PSE
						CH424H3			99-1385	PSE
			T		6	CH142H8			VT-02-504	
			Two	6	U	CH142H20			VT-02-522	

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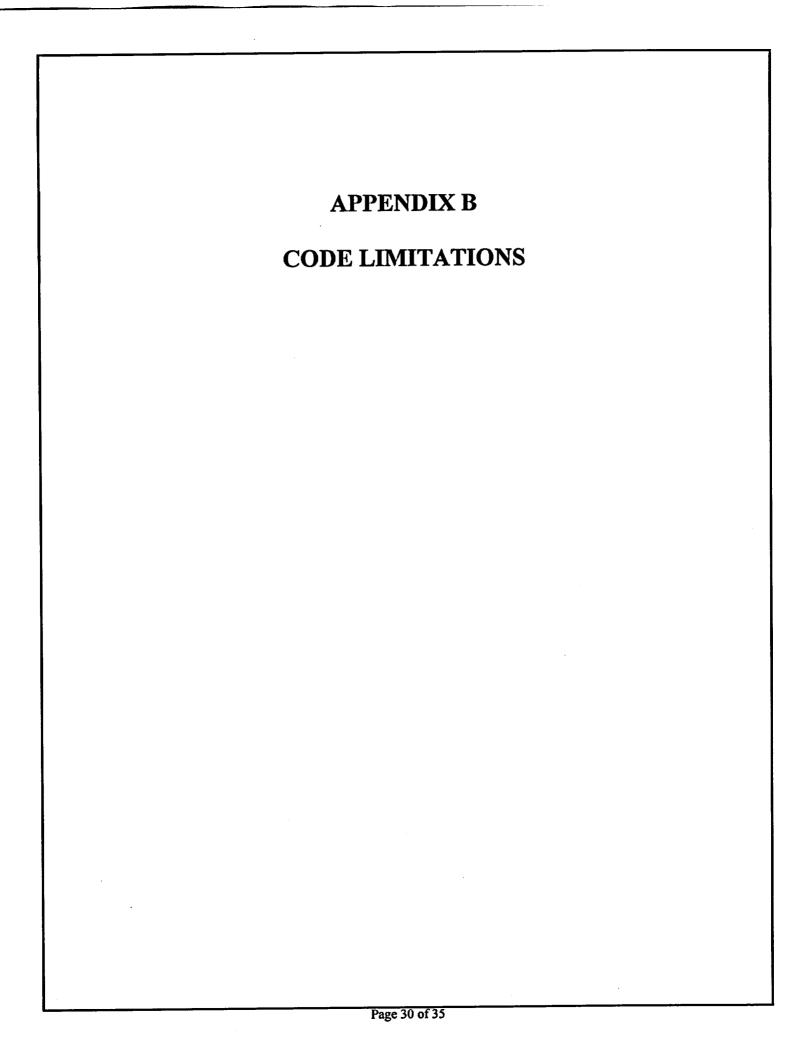
INSERVICE INSPECTION SUMMARY REPORT

ASME	Zone	Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports Surf	Visual	Remarks
tem no			Per	Req	Comp				VT-02-505	
						CH142H21			VT-02-499	
						CH424H2			VT-02-500	RR #4
						CH424H3			VT-02-500 VT-02-521	KK #4
			_	_	_	CH424H6				Support Deleted
	104	SI Suction B	One	7	7	SI33H1			99-1520	Support Deleted
						SI33H2			99-1521	
						SI33H3			99-1522	
						SI308H5			99-1523	
						S1308H8			99-1524	
						S1308H10			99-1525	
						SI308H11			99-1526	
			Two	7	6	SI308H1			VT-02-547	
						SI308H2			VT-02-548	
						SI308H3			VT-02-549	
						SI308H4			VT-02-550	
						SI308H6			VT-02-571	Support Deleter
						SI308H7			VT-02-551	Support Delete
	105	Refuel. Suction B	One	7	7	CH149H9			01-1396	
	103	Ketuci. Sucuon D	Olic	,	-	CH149H10			01-1397	
						CH149H12			01-1398	
						CH149H13			01-1399	
						CH149H14			01-1400	
						CH149H21			01-1401	
						CH149H28			01-1402	
			_			S199H1			01-1046	
	106	HPSI Discharge A	One	8	8				01-1047	
						SI99H2			01-1047	
						SI100H1			01-1048	
						SI100H2			01-1049	
						SI100H3				
						S1100H5			01-1051	
						S1100H34			01-1052	
						S1106H1			01-1053	
	107	HPSI Discharge B	One	6	6	SI107H3			01-1057	
		•				SI107H11			01-1056	
						SI107H12			01-1059	
						SII 12HC			01-1055	
						SII12HG			01-1054	
						SII 12HH			01-1058	
	108	HPSI Discharge	One	11	11	S1100H22			99-1388	
	100	Hr31 Discharge	One	••		SI100H23			99-1387	
						SI100H24			99-1389	
						SI100H25			99-1390	
						SI100H26			99-1391	
						SI100H27			99-1392	
									99-1393	
						SI100H28 SI100H29			99-1394	
						SI100H29			99-1395	
						SI100H32			99-1396	
									99-1397	
						S1100H35			77=1071	
			_	_	-	611031113			01-1335	
	109	HPSI Discharge	One	7	7	SI107H13			01-1336	
						S1107H14			01-1337	
						SI107H15			01-1338	
						SI107H16				
						SI107H21			01-1339	
						SI107H47			01-1340	
						SI107H50			01-1341	
	110	HPSI Discharge	One	7	7	S1103HB			01-1403	
						SI103HD			01-1404	
						SI103HE			01-1405	
						SI218H1			01-1342	
						SI218H2			01-1343	
						S1218H3			01-1344	
						SI218H4			01-1345	
		UDCI Disabassa	One	3	3	SI100H37			01-1348	
	111	HPSI Discharge	One	3	,	SI100HA			01-1346	
									01-1347	
			_	_	•	SI100HB			01-1349	
	112	HPSI Discharge	One	3	3	S1176H1			01-1350	
						S1176H2			A1-1330	

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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
item no						S1176H3			01-1351	
	113	HPSI Discharge	One	5	5	SI107H22			01-1061	
		111 01 0104111116				SI107H24			01-1060	
						SI157H2			01-1352	
						SI157H3			01-1353	
						SI157H4			01-1354	
	115	HPSI 2A & 2B	Two	3	3	SI157H10			VT-02-502	Support Deleted
	113	III OI AA CC AD	20		•	SI157H11			VT-02-503	RR #4
						SI176H4			VT-02-501	RR #4
F 1.40	41	Steam Generator 1	One	2	2	41-42			01-1498	
	41	Steam Cenerator 1	01.0	_	_	41-43			01-1499	
	72	LPSI Pump A	One	3	3	72-3A			01-1472	
	12	Li Si i diip A	0	_		72-3B			01-1472	
						72-3C			01-1472	
	116	HPSI Pump A	One	4	4	116-1A			01-1474	
	116	nroi rump A	Oile	-	•	116-1B			01-1474	
						116-IC			01-1474	
						116-1D			01-1474	

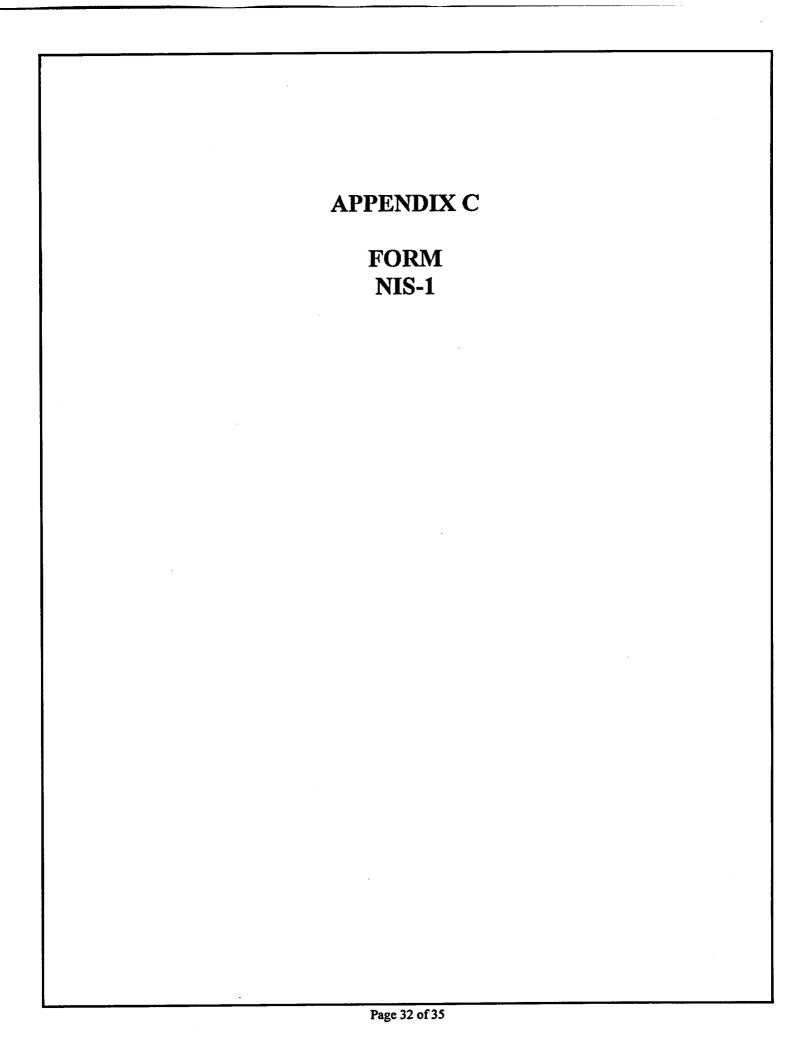


REFUELING OUTAGE NUMBER TEN

CODE LIMITATIONS

ASME ITEM	ZONE/COMPONENT	ITEM ID	REPORT NO.
B 9.11	23 SI 1A	23-6	UT-02-287, UT-02-289
B 9.11	24 SI 1B	24-14	UT-02-185, UT-02-189
B 9.11	24 SI 1B	24-16	UT-02-177, UT-02-188
B 9.11	24 SI 1B	24-19	UT-02-176, UT-02-178
B 9.11	24 SI 1B	24-6	UT-02-179, UT-02-182
B 9.11	25 SI 2A	25-4	UT-02-224, UT-02-226
B 9.11	25 SI 2A	25-6	UT-02-221, UT-02-222
B 9.11	26 SI 2B	26-17	UT-02-180, UT-02-183
B 9.11	26 SI 2B	26-6	UT-02-181, UT-02-184
B 9.11	29 PZR Spray	29-2	UT-02-235, UT-02-236
B 9.21	30 Aux PZR Spray	30-1	UT-02-229, UT-02-230
B 9.21	30 Aux PZR Spray	30-2	UT-02-231, UT-02-232
B 9.21	39 HPSI A	39-24	UT-02-302, UT-02-303
C 5.11	100 LPSI Train A	70-121	UT-02-165, UT-02-166
C 5.11	100 LPSI Train A	84-3	UT-02-291, UT-02-293
C 5.11	102 SI Suction A	84-26	UT-02-150, UT-02-169
C 5.11	103 Refuel. Suction A	86-1 .	UT-02-186, UT-02-187
C 5.11	97 LPSI Loop 1B	77-27	UT-02-163, UT-02-164
C 5.21	115 HPSI 2A & 2B	115-20	UT-02-298, UT-02-299
C 5.21	118 HPSI A Long Term	118-49	UT-02-167, UT-02-168
C 5.21	119 HPSI B Long Term	119-52	UT-02-300, UT-02-301

<u>Limitation</u> Single-sided Austenitic weld examinations less than 90% coverage based on the Section XI Appendix VIII PDI demonstration.



APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1.	OWNER -	ARIZONA PUBLIC SERVICE	COMPANY, et al						
	ADDRESS -	P.O. BOX 52034, PHOENIX, A	RIZONA 85072						
2.	PLANT -	PALO VERDE NUCLEAR GE	NERATING STATION	•					
	ADDRESS -	5801 SOUTH WINTERSBURG	G ROAD; TONOPAH,	ARIZONA 85354-	7529				
3.	UNIT NUMBER	1							
4.	4. OWNERS' CERTIFICATE OF AUTHORIZATION - NONE								
5.	COMMERCIAL SEE	RVICE DATE - January 28,	1986						
6.	COMPONENTS INS	PECTED:							
	MPONENT OR PURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO				

This report is a summary of the second interval second period examinations performed to date for Unit 1. The items examined, along with the examination report numbers, are listed in Appendix A.

APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

- 7. EXAM DATES <u>9-28-2002</u> TO <u>10-30-2002</u>
- 8. INSPECTION INTERVAL FROM <u>7-18-1998</u> TO <u>7-17-2008</u>
- 9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME Catagory and Item Numbers with the corresponding examination report numbers.

10. ABSTRACT OF CONDITIONS NOTED

The ten rejectable conditions documented during this outage were corrected or determined "use as is" in accordance with PVNGS work control practices and ASME Section XI. Two supports were damaged, seven supports had loose lock nuts and boron was on instrumentation tubes. Section 2 Examination Summary of the summary report addresses these conditions.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

The rejectectable portion of the support was replaced on one support, the bearing was adjusted on another support and the seven supports with loose lock nuts were tightened in accordance with ASME Section XI and APS Work Control procedures. The instrumentation tubes were verified to remain essertially unchanged from the original evaluation.

Several repairs and replacements have been performed since the last summary report due to routine or corrective maintenance. The work was performed in accordance with ASME Section XI and APS Work Control procedures. Applicable NIS-2 forms are included in Appendix D and a copy maintained on file at Palo Verde Nuclear Generating Station by Arizona Public Service

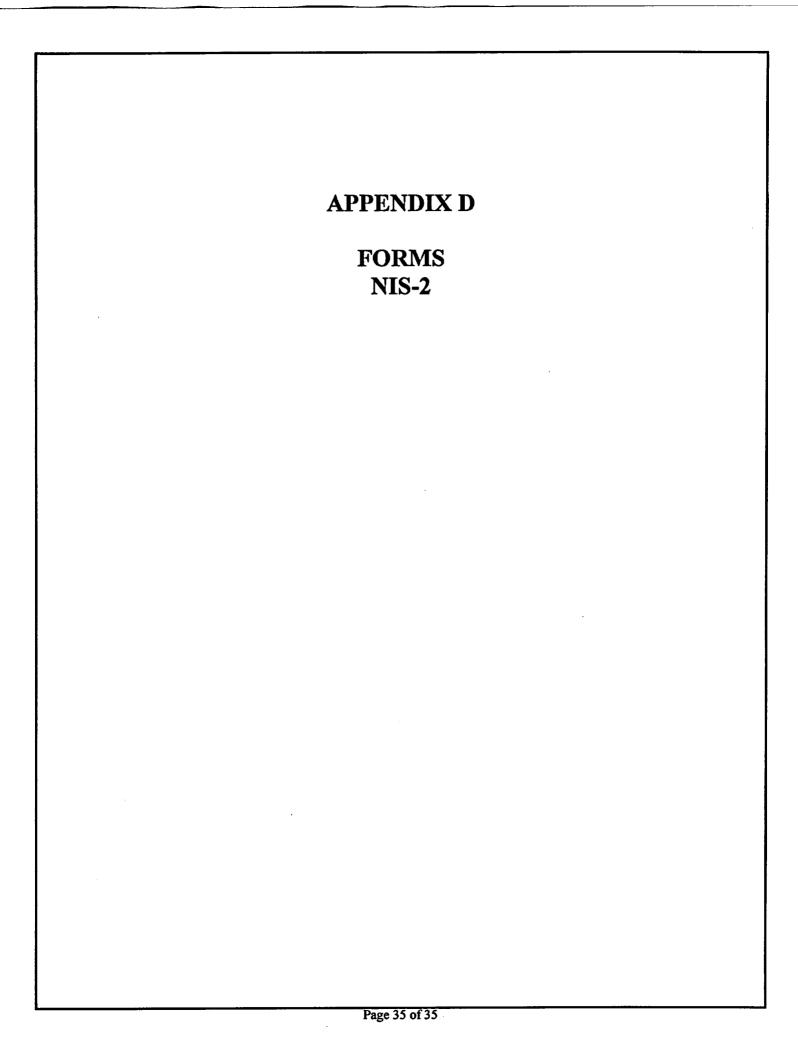
WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

DATE 1/24/03 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Mulial Meeting

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 HSB CT OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD <u>5-13-01</u> TO <u>1-24-03</u>, 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 La Donton	COMMISSIONS NO 9685 "A" NITC" AZ 264
	NAT'L BOARD, STATE, PROVINCE
DATE 1-24-03	



	ASME SECTION XI – REPAIR / REPLACEMENT								
	1. Component ID 1PRCEV24	4	2. Code Class	ASME Section III Class 1					
	3. Item Description: 4" Pressu		. •						
	4. N-5 Data Package Number:		5. W.O. Number	: <u>219437</u>					
\\\\\\	6. Original Construction Code	Edition: 1974 Edition, Winter	1975 Addenda						
		dition: 1974 Edition, Winter 1							
		move the 4" Check Valve 1PRC		O# 219184					
	9. ISI Flaw NDE Method of Flaw Detection:								
	Report Number:								
	10. Evaluation of the suitability	y of this work as per the requires	nents of IWA - 41	50:					
	Check Valve internals remo	oved during start-up testing, the	valve is currently	leaking at the body to bonnet c	onnection and				
	has been Furmanited. Refe	rence DMWO 219184 evaluatio	<u>n.</u>						
	11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: ASME Section III Class 1, 1974 w/Winter 1975 13. Repair/Replacement Activity Construction Code/Edition: ASME Section III Class 1, 1974 w/Winter 1975 14. ASME Section XI Code/Edition: 1992 Edition, 1992 Addenda 15. Preservice Inspection Required: YES NO Initial Los Date 6/12/2002 If required, include a step in the W.O. to perform Preservice Inspection 16. ASME Section XI Pressure Test Required: YES NO Initial Los Date 6/12/2002 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.								
ł	Item ID	Part No.	Serial No	Heat No.	MR/ROS No.				
			N/A	MR443	i				
ł	4* Pipe	APN 00053306	7		MR# 644199				
ŀ	4" Elbow	APN 00054113 (13/62	N/A	F8685	MR# 644199				
ŀ	4" Reducing Tee	APN -00053306-54469	N/A	12193	MR# 644199				
ŀ	2" Pipe	APN 43510642	N/A	HC#3707H	MR# 644199				
	1" Weldolet	APN 43541147	<u>N/A</u>	242 5NA	MR# 644199				
			·						
	19. Planner Korl Seve 6/26/2002 Printed Name: _Karl V. Savage								
	Signature Date								
	20. ISI Signature	Date	Printed Name	: _Ramakant P. Indap					
	21. ANII RA Lotter	6-27-02	Printed Name	:: _Robert G. Hogstrom					
: 1	Signatura	Date			······································				

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	na Public Service (Company, et. al.		Da	te: <u>06/24/20</u>			
P. O. Box 53999, Phoenix Arizona 85072-2034					Sheet: 1 of 2			
2. Plant: Palo Verde Nuclear Generating Station					it: 1			
<u>5801 S</u>	South Wintersburg	Road., Tonopah.	Arizona 853:	54-7529 Wo	ork Order Nu	nber 219437		
3. Work Performe	ed by: Arizona Public	Service		Тур	pe of Code St	amp None		
				Au	thorization N	o. <u>N/A</u>		
				Exp	oiration Date	<u>N/A</u>		
4. Identification of	f System: RC. (Rea	ctor Coolant) ASM	Œ Section III (Class 1				
5. (a) Applicable	Construction Code A	ASME Section III N	VB. Class 1	1974 Edition, <u>W</u>	<u>'inter 1975</u> A	ddenda, C	ode Case	
(b) Applicable	Edition of Section X	[] Utilized for Repa	airs or Replace	ments: <u>1992 E</u>	dition, 1992	Addenda		
6. Identification of	f Components Repair	red or Replaced an	d Replacement	Components			- · · · · · · · · · · · · · · · · · · ·	
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
4" Pipe	N/A	~la	N/A	1PRCEL018	2002'	Replacement	NO	
4" Elbow	N/A	10/L	N/A	1PRCEL018	2002	Replacement	NO	
4" Reducing Tee	N/A	ماد	N/A	1PRCEL018	2002	Replacement	NO	
2" Pipe	N/A	n/A	N/A	1PRCEL018	2002	Replacement	NO	
					_			
7. Description of Work: Removal of Pressurizer Spray Check Valve 1PRCEV244 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1								
Other Pressure psi Test Temperature °F								
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include	ngs may be us d on each she	ed provided et, and (3) ea	(1) size is 8 ½ 2 ach sheet is nun	X 11 abered	

9.	Remarks: Pressure Test per Code Case N416-1, Removed Pressurizer Spray line Check Valve	. Reference DMWO
	219437, EDC 1998-00651.	

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.							
Type Code Symbol Stamp	N/A						
Certificate of Authorization No. Signed: Cansulting No. Owner or Owner's Des		· ·					
Owner or Owner's Des	ignee, Title						

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and chave inspected the components described in 6-23-62 to 6-23-62 belief, the Owner has performed examinations and the Report in accordance with the requirements of the ASM	employed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , this Owner's report during the period of, and state that to the best of my knowledge and aken corrective measures described in this Owner's
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any maloss of any kind arising from or connected with this inspector.	lescribed in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a
Inspectors Signature	CommissionsNB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements

V-E0092 Ver. 7 Back

·	ASME SECTION	N XI – REPAIR / REPL	ACEMENT	
	<u> </u>	•	Pag	geof
1. Component ID 1JEWAH		2. Code Class AS	ME Secton III Class 3	•
3. Item Description: 20" B				
4. N-5 Data Package Number		5. W.O. Number: 2	<u>24907</u>	
6. Original Construction Co				
7. Original Installation Code				
8. Work Description: REF	LACEMENT OF VALV	-		
9. ISI Flaw		NDE Method of Flaw Det	ection:	
10 Particular St. and 11	٠	Report Number:		
10. Evaluation of the suitable	lity of this work as per the	e requirements of IWA - 4150:	1 - C'1100	- In the
Like for like valve replace	tement to corre	ct seat leaking	e. No Failes	2
	ASIVIE 6	ct seat-leakers eundary PFM	dhp 10-4-0	
				,
11. Repair/Replacement Wo	rk Organization: <u>Arizon</u>	a Public Service	V (52)	卫 10-4-02
12. Replacement Items Cons	truction or reconciled Co	de/Edition: Sec. III Cl 3, 197	4 Edition 1975 Summ	ier Addenda
13. Repair/Replacement Act	ivity Construction Code/F	Edition: Sec. III Cl 3, 1974 E	dition 1975 Winter Ac	ddenda
14. ASME Section XI Code/		and 1992 Addenda		
15. Preservice Inspection Re	quired:	☐ YES ☐ NO		
Initial QUU Date	0/04/02 If require	ed, include a step in the W.O.	to perform Preservice	Inspection
16. ASME Section XI Pressu			- PPR 10-1	-
anitial QUI Date		ed, include a step in the W.O.	• • •	•
Initial All Date	0/04/03 17. Inch	ade a step in the W.O. to comp	lete NIS-2 Form prior	to releasing the
midd Sarv Dan 1	compone	ent.		
Initial W Date /	0/04/02 18. Inch replacem	nde a step in the W.O. to recordent items.	d below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
1JEWAHCV0053	45002941	D-112456-1-1	,	MR# 686795
	<u> </u>			
				
			 	<u> </u>
			·	
19. Planner Much	Talhum 10,	104/02 Printed Name: J	ohn Waltman	. ,
Signature	1	Date		•
20. ISI PY	20GA 10	-4-62 Printed Name:	RIPITI	NDAP
Signature		Date		•
41. ANII 25 1 2 =			011	
21. ANII Signature	- 10-1	Date Printed Name:	R.G. HOGSTRON	<u> </u>

PV-80093 Ver. 7

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	ona Public Service	Company, et. al.			Date:	10/04/200	01		
P.O.	Box 53999, Phoeni	ix Arizona 85072-	<u>·2034</u>		Sheet	: 1 of	2		
2. Plant: Palo Verde Nuclear Generating Station						1			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529	Work	Order Nun	nber <u>224907</u>		
3. Work Performe	3. Work Performed by: Arizona Public Service Type of Code Stamp None								
				:	Authorization No. N/A				
					Expir	ation Date	<u>N/A</u>		
4. Identification of	of System: <u>EW</u>								
5. (a) Applicable	Construction Code	ASME Section III N	VD, Class 3	1 <u>974</u> Editio	n, <u>Sum</u>	mer 1976	Addenda,(Code Case	
(b) Applicable	Edition of Section	XI Utilized for Repa	irs or Replace	ments: <u>19</u> 9	92 Edi	tion, 1992	Addenda		
6. Identification o	of Components Repair	ired or Replaced an	d Replacement	Componer	nts				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identific		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
Butterfly valve	Henry Pratt Co.	D-112456-1-1		1JEWAH 053	ICV0	1992	Replacement	YES	
		·							
							,		
 . ,									
7. Description of	Work: Complete v	alve replacement	with new like	for like.	· · · · · · · · · · · · · · · · · · ·				
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal Op	perating Pro	essure	⊠ Ex	empt N-4	116-1 🔲	
oti Oti	her Press	ure psi			Test	Temperatu	re °F		
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include	ngs may b d on each	e used sheet,	l provided , and (3) ea	(1) size is 8 ½ 2 ach sheet is num	X 11 ibered	

FORM	NIS-2	(Back)
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Remarks: Complete valve replacement with new like for like valve. WO# 224907

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.						
Type Code Symbol Stamp	N/A		···			
Certificate of Authorization No.	N/A	Expiration Date:	N/A			
Signed: Owner or Owner's	Sn-ISI Engineer Designee, Title	Date:	10/9/02			

CERTIFICATE OF INS	SERVICE INSPECTION
Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	the National Board of boiler and Pressure Vessel apployed by HSB CT of Hartford, Connecticut, have eport during the period of
concerning the examinations and corrective measures of	s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date:	

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 1PS	SGEV032	2. Code C	ass ASME III Class 2				
· · · · · · · · · · · · · · · · · · ·	Kerotest GLOBE VALV		• • •				
4. N-5 Package Numb	4. N-5 Package Number <u>1SG02-1</u> 5. W.O. Number <u>2387151</u>						
6. Original Constructio	on Code Edition ASME I	II Class 2, 1974 Ed., Sun	nmer 1976 Add.				
7. Original Installation	Code Edition ASME III	Class 2, 1974 Ed., Winte	r 1975 Add.				
8. Work Description V	ALVE REPLACEMENT	•	· ·				
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection					
		Report Number					
	ultability of this work as percent of the value of the va	•	ue to worn seat condition	n not allowing tight			
<u> </u>		<u> </u>					
	nt Work Organization AF						
12. Replacement Item	Construction or reconciled	d Code/Edition ASME I	II Class 2, 1974 Ed., Sun	nmer 1976 Add.			
13. Repair/Replacemer	nt Activity Construction Co	ode/Edition ASME III C	lass 2, 1974 Ed., Winter	1975 Add.			
14. ASME Section XI C	Code/Edition 1992 Edition	n and 1992 Addenda					
15. Preservice Inspect	ion Required.	· 🛄 Y	YES 🖸 NO				
DMG 06/21/0	02 If required, include	e a step in the W.O. to pe	erform Preservice Inspec	tion.			
16. ASME Section XI P	ressure Test Required	☑ Y	ES 🔲 NO				
DMG 06/21/0	02 If required, include	a step in the W.O. for IS	I & ANII Inspection.				
DMG 06/21/0		in the W.O. to complete	NIS-2 Form prior to rele	asing the component.			
Initial Date DMG 06/21/0 Initial Date		in the W.O. to record be ems.	low all applicable numbe	ers for repaired or			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
1PSGEV032	45000 250 PAU# ARZ-0-215KG-C	AFEZ-ZO	E522R-1-1	00538799-0001			
	F//UH /162-13-23764 C	<i>y</i>					
	•						
				<u> </u>			
	-						
19. Planner David Goodlet Signature Date Date							
20. ISI Engineer	Findag Signature	6-26-02 Print N	Name <u>Ramakant Indap</u>				
21. ANII 2t 7-t- 4-24-02 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 ______06/21/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of _____ 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Address Work Order Number 3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None Authorization No. N/A 5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A SG-Feedwater system, wet layup. 4. Identification of System 5. (a) Applicable Construction Code ASME III Cl 2 19 74 Edition, S' 76 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 Repaired ASME Code National Name of Name of Manufacturer Other Year Stamped Built Replacement Board No. Identification Item Manufacturer Serial No. (Yes or No) 1984 Replacement Yes AFE2-20 N/A 1PSGEV032 Valve Kerotest 7. Description of Work Replacement of valve. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 Test Temp. Other 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.

Remarks	WO# 2387151 for valve 1PSGEV032 replacement due to seat condition not allowing tight shut-off.
	shut-off.
,	· · · · · · · · · · · · · · · · · · ·
	1
	CERTIFICATE OF COMPLIANCE
	tify that the statements made in the report are correct and this <u>replacement</u> conforms to the rule repair or replacement.
Type C	ode Symbol StampN/A
Certifica	ate of Authorization No. N/A Expiration Date N/A
Signed	REFORDAY, CONSULTING Metallicing to 1 Engineer Date 10-29-02
	CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION
	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse
Inspector of <u>H</u>	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> <u>artford, Connecticut</u> , have inspected the components described in this Owner's Report during
Inspector of <u>H</u> ; the period belief, the	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> <u>artford, Connecticut</u> , have inspected the components described in this Owner's Report during od <u>6-26-02</u> to <u>10-29-02</u> , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI.
Inspector ofH; the period belief, the Report in By significance in neither in	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of Arizona and employed by HSB CT artford, Connecticut, have inspected the components described in this Owner's Report during and converged to 10-24-22, and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI. Ing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implicating the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property
Inspector ofH; the period belief, the Report in By significance in neither in	indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of Arizona and employed by HSB CT artford. Connecticut, have inspected the components described in this Owner's Report during od 6-26-02 to 10-24-02, and state that to the best of my knowledge and ne Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI. In this certificate, neither the Inspector nor his employer makes any warranty, expressed or implicating the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property are or a loss of any kind arising from or connected with this inspection.
Inspector ofH; the period belief, the Report in By significance in neither in	indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of Arizona and employed by HSB CT artford, Connecticut have inspected the components described in this Owner's Report during od 6-26-22 to 10-22-22, and state that to the best of my knowledge and ne Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI. In this certificate, neither the Inspector nor his employer makes any warranty, expressed or implicating the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.

	ASME SECTION XI	i – Kepaik / Kepl	•	ge <u> (</u>	of	<u> </u>		
1 Company to the same of the s	3500	2. Code Class ACI	ME Section III Class 2					
 Component ID <u>1JCHNUV</u> Item Description: <u>3" FISHI</u> 			VIII00 I	- -				
 Item Description: 3" FISHI N-5 Data Package Number: 		5. W.O. Number: <u>2</u>	<u>391525</u>					
4. N-5 Data Package Number:6. Original Construction Code		•						
7. Original Installation Code F								
8. Work Description: Rewor								
9. ISI Flaw		NDE Method of Flaw Det	ection:	•				
		Report Number:						
10. Evaluation of the suitabili								
	ailure. The valve plug / stem			dition.				
-								
11. Repair/Replacement Worl	c Organization: Arizona Pu	ıblic Service						
12. Replacement Items Constr	ruction or reconciled Code/E	Edition: Sec. III Cl 2, 19	74 Edition Summer 19	775 Adde	<u>nda</u>			
13. Repair/Replacement Activ	rity Construction Code/Editi	on: <u>Sec. III Cl 2, 1974 I</u>	dition 1975 Winter A	ddenda				
14. ASME Section XI Code/E								
15. Preservice Inspection Req		☐ YES ☑ NO						
Initial Dr. S Date 11	3-12-02 If required. i	include a step in the W.O.	to perform Preservice	Inspecti	on			
16. ASME Section XI Pressur		☐ YES 🖾 NO						
		include a step in the W.O.	for ISI & ANII Inspec	ction.				
Initial Wash Date 10	-12-D2 Haguian,				gine al.	<u>.</u>		
Initial Mag Date 10	17. Include component.	a step in the W.O. to com	Piece 1419-2 Porm pric	a w reici	muig (Ni	-		
Initial Pung Date 10. Initial Pung Date 10. Initial Pung Date 10.	18. Include replacement	a step in the W.O. to reco	rd below all applicabl	e numbe	rs for re	paired or		
Item ID	Part No.	Serial No.	Heat No.	MF	?/PO/\	WO No.		
	NA	6552839	21953-1	MR	563601	1		
PLUG	(/)							
•			 	-				
			-			 .		
	· ·			1				
	<u> </u>	L	T	<u> </u>				
19. Planner								
NI	B m/s	AZ Drinted Manage	R.L.B.	RAYI	22.511	06-		
20. ISI Signature	0 - 60/12	ate			, 			
a.l.	, 1	• 	R.G. Haustra					
21. ANII Signature	- n/.2/c	Printed Name:	K.C. MOUSTRE	<u> </u>				
g Ciamatula)	D.	عنه						

....

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI Date: 10-12-2002 1. Owner: Arizona Public Service Company, et. al. Sheet: 1 of 2 P. O. Box 53999, Phoenix Arizona 85072-2034 Unit: 1 2. Plant: Palo Verde Nuclear Generating Station 5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2391525 Type of Code Stamp None 3. Work Performed by: Arizona Public Service Authorization No. N/A Expiration Date N/A 4. Identification of System: CH: Chemical and Volumn Control System 5. (a) Applicable Construction Code ASME Section III NC. Class 2 1974 Edition, Summer 1975 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 **ASME** Repaired or Other Year **National** Manufacturer Name of Name of Code Identification Built Replacement Board No. Manufacture Serial No. Item Stamped . (Yes or NO) YES Replacement 1JCHNUV-1984 6552839 n/a **PLUG** Fisher 0500 7. Description of Work: Rework valve to correct seat leakage. N-416-1 🔲 Exempt 🛛 Nominal Operating Pressure Pneumatic 8. Test Conducted: Hydrostatic Test Temperature Pressure ____ psi Other 🔲

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM	ΛN	IS-2	(Ba	ck)
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9. Remarks: WO# 2391525 on valve 1JCHNUV0500 was disassemble and inspected for cause of seat leakage. The valve was in good shape with some wear on plug to seat ring sealing surface. The valve was reassembled with a new plug to improve seat condition.

Cermicate of Computance					
We certify that the statements made in the ASME Code, Section XI.	the report are correct	and this replacement conform	ns to the rules of		
Type Code Symbol Stamp	N/A		<u> </u>		
Certificate of Authorization No.	N/A	Expiration Date:	N/A		

Signed: Change (on Sulking Metallurgi (al Engineer Date: 10-15-2002)

Downer or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

CEKILICATE OF IMB	MICHAEL MICE TO THE STATE OF TH						
I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and eminspected the components described in this Owner's reto, and state that to the best of examinations and taken corrective measures described requirements of the ASME Code, Section XI.	ployed by HSB CI of Hartfurt, Connecticut, may port during the period of						
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.							
Inspectors Signature Date: 10-16-02	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements						

	ASME SECTION	XI – REPAIR / REPL		ge <u>1</u> of <u>1</u>
		0. 0.4. 01 40		
1. Component ID <u>1PSIBV53</u>			ME Section III Class	
3. Item Description: HPSI In			410221	
4. N-5 Data Package Number:		5. W.O. Number: 2	412331	
6. Original Construction Cod	•			
7. Original Installation Code				
8. Work Description: Repla	ice the bonnet / disc assem			
9. ISI Flaw	•	NDE Method of Flaw Det	ection:	
46.79.1.0164	an afatha mada as mas iba s	Report Number:		
10. Evaluation of the suitabili	ty of this work as per the i	equiencus of twa - +150.		
11. Repair/Replacement Wor	k Organization: Arizona	Public Service		
12. Replacement Items Const			4 Edition 1975 Winte	er Addenda
13. Repair/Replacement Acti				
14. ASME Section XI Code/I	Edition: 1992 Edition at	nd 1992 Addenda		
15. Preservice Inspection Rec	uired:	☐ YES		
Initial J. Date /C	-14-02 If required	, include a step in the W.O.	to perform Preservice	Inspection
16. ASME Section XI Pressu	-	⊠ YES □ NO	-	
		, include a step in the W.O.	for ISI & ANII Inspec	rtion
Initial 3.0 Date 2	377-00	-		
Initial 7.0 Date 10	2-/1/-03 17. Include componen	le a step in the W.O. to comp t.	olete NIS-2 Form prio	r to releasing the
Initial Jo Date 10	18. Include replaceme	le a step in the W.O. to recornt items.	d below all applicable	e numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Bonnet/disc assembly	76356	76355 RRI 9-02	N/A	WO 00888782
Bonnerdisc assembly	70330	10333 16-24	1441	
<u></u>		 	<u> </u>	
			·	
	·			
19. Planner Signature		5-/4-03 Printed Name:]	Iames I.Davis	
	Maa 'An	luctor -		
	nonow 101	14102 Printed Name:	Hun Mo	TT TW
Signature	,			
21. ANII	. <i>ю</i> -	74/02 Printed Name: Date Printed Name:	Roser Ce. Ha	STROM
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 ______ Date ______ 10/14/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None N/A Authorization No. N/A 5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7525 Expiration Date Safety Injection 4. Identification of System 5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 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 Repaired ASME Code Manufacturer National Other Year Name of Name of Stamped Serial No. Board No. Identification Built Manufacturer Item (Yes or No) Replacement Yes 1PSIBV532 1983 Repaired 27603 N/A Borg-Warner Valve Yes N/A Replacement 1PSTBV532 2002 Bonnet /Disc assy. Borg-Warner RET 1955 7. Description of Work Replace the bonnet/disc assembly with the assembly removed from 1PSIEV143 Exempt N-416-1 **□** Nominal Operating Pressure Pneumatic 8. Test Conducted: Hydrostatic

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.

Pressure psi

Test Temp.

Other []

	FORM NIS-2 (Back)
Remarks	Work Order 2412331 replaced the bonnet /disc assembly removed from 1PSIEV143 by Work Order 00888782 and reworked by Work Order 00917904.
	CERTIFICATE OF COMPLIANCE
4	by that the statements made in the report are correct and this repair conforms to the rules GME Code, Section XI.
Type Co	de Symbol StampN/A
	te of Authorization No. N/A Expiration Date N/A
	RPtrolop, Consulting Metallurgical Engineer Date 10-29-02 Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
Inspector of <u>Har</u> the perior belief, the	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel as and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> and Connecticut, have inspected the components described in this Owner's Report during to <u>10-22-02</u> , and state that to the best of my knowledge and a Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
concerning neither the	ng this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied and the examinations and corrective measures described in this Owner's Report. Furthermore, the inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
	Commissions National Board, State, Province, and Endorsements
Date _	₩-24-CZ
<u> </u>	

ASME SECTION XI - REPAIR/REPLACEMENT								
1. Component ID 1	SGEL011	2. Code (Class ASME Section III	Class 2				
3. Item Description <u>I</u>	3. Item Description Pipe Spool							
4. N-5 Package Num	ber 1SG02-1	5. W.O. N	umber <u>2417233</u>					
	on Code Edition 1974 Ed	lition, Summer 1975 Ad	denda					
-	Code Edition 1974 Edit							
8. Work Description	Replacement of Pipe spoo 2001-00562.			OM 2417232 EDC#				
9. ISI Flaw	NDE N		1					
		•						
Replacement of l	suitability of this work as p Eroded piping with Stainle the Code Pressure Bound	ess Steel as Described in		2001-00562. There				
		DC .						
•	ent Work Organization A			A 11 1				
•	Construction or reconcile							
13. Repair/Replacement	ent Activity Construction C	ode/Edition Sec.III Cl.2	274 Edition 75 Winter A	ddenda				
14. ASME Section XI	Code/Edition 1992 Edition	on and 1992 Addenda						
15. Preservice Inspect	ction Required. / 200 2 If required, includ	_	YES NO No nerform Preservice Inspec	tion.				
16. ASME Section XI	Pressure Test Required		YES 🔲 NO					
	trequired, include	a step in the W.O. for I	SI & ANII Inspection.					
Initial Dat	2002 17. Include a step	o in the W.O. to complete	e NIS-2 Form prior to rele					
Krs 5/27	عمد 18. Include a step		elow all applicable numbe	ers for repaired or				
ITEM LD.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO. QQ				
8" Pipe S. S	APN 00061187		297830	MR# 60418% 7				
8" Pipe C.S.	APN 00064731		27589	7711 6779474				
8" Elbow	APN 00067691		<u> </u>	MR# 604189 7				
				M2= 679684-Q				
				*.				
19. Planner Kal	Signature	Str/zooc_ Print	Name Karl V. Savage					
\20. ISI Engineer	Pindog Signature	C/18/57_ Print	Name Ramakant P. Inda	р				
21. ANII 25	(\Signature	Coate Print	Name Robert G. Hogstro	om				
PV-E0093 Ver. 6	<u> </u>			730P-9ZZ17				

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

As Required by the Provisions of the ASME Code Section XI

7								
1. Owner: Arizo	na Public Service	Company, et. al.		Da	ite: <u>05/27/2</u> 00	22		
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2								
2. Plant: Palo Verde Nuclear Generating Station Unit: 1								
5801 S	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529 W	ork Order Nur	nber <u>2417233</u>		
3. Work Performe	d by: <u>Arizona Publi</u>	Service		Ту	pe of Code St	amp None		
				Au	thorization No	o. <u>N/A</u>		
	٠			Ex	piration Date	N/A		
4. Identification of	f System: SG. ASN	E Section III. Clas	<u>s 2</u>					
5. (a) Applicable	Construction Code	ASME Section III N	IC. Class 2	1974 Edition, <u>V</u>	Vinter 1975 A	ddenda, Co	ode Case	
(b) Applicable	Edition of Section 3	(I Utilized for Repa	airs or Replace	ments: <u>1992 F</u>	Edition, 1992	Addenda		
6. Identification of	f Components Repai	red or Replaced an	d Replacement	t Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificatio	Year n Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
8" Pipe and Elbow	N/A	N/A	N/A	IPSGELOIL	2002	Replacement	NO	
						·		
•					·			
			_		<u>.</u>			
7. Description of V	Work: Replaced P	ipe Spool due to F	Flow Acceler	ated Erosion (Corrosion of	the Original Pip	ing.	
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pressu	re 🗌 Ex	empt N-4	116-1 ⊠	
Oth	ner Press	ure psi		T	est Temperatu	re °F		
inches, (2) info	ormation in items 1	Other Pressure psi Test Temperature °F NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.						

FORM	NIS-2	(Back)
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9. Remarks: Pressure Test per Code Case N-416-1, Work Order 2417233, Replaced 8" Pipe and Elbow in Spool S-007 of Line 1PSGEL011 with Stainless Steel.

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.					
Type Code Symbol Stamp	N/A				
Certificate of Authorization No.	N/A	Expiration Date:	<u>N/A</u>		
Signed: RPB desp Consulting Metallurgital Engineer Date: 10-29-2002. Owner or Owner's Designee, Title					

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and en inspected the components described in this Owner's re-	aployed by HSB CT of Hartford, Connecticut, have
to 6-29-c2, and state that to the best	of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any m loss of any kind arising from or connected with this ins	described in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 10-29-02	

ASME SECTION XI - REPAIR/REPLACEMENT								
, 1. Component ID 1P	SGEL011	2. Code	Class ASME Section III	Class 2				
3. Item Description Pipe Spool								
4. N-5 Package Numb	per 1SG02-1	5. W.O. N	lumber <u>2417247</u>					
6. Original Construction	on Code Edition 1974 E	dition, Summer 1975 Ad	denda					
7. Original Installation	Code Edition 1974 Edi	ition, Winter 1975 Adder	ıda					
· <u>2</u>			ed Erosion Corrosion, DII Valve 1PSGEV103, which					
9. 🔲 ISI Flaw	NDE	Method of Flaw Detection	1					
		Report Number _						
Y .	uitability of this work as	· •						
Replacement of E	roded piping with Stainl the Code Pressure Bound	ess Steel as Described in	DIDM 2417232, EDC# 2	001-00563. There				
was no famore of t	ne Code Plessure Bound	шу.						
11. Repair/Replaceme	nt Work Organization A	LPS .						
12. Replacement Item	Construction or reconcile	ed Code/Edition Sec.III	Cl2/74 Edition '75 Summ	er Addenda				
			774 Edition 75 Winter A	· · · · · · · · · · · · · · · · · · ·				
•	code/Edition 1992 Editi							
15. Preservice Inspect		le a step in the W.O. to p	YES NO No erform Preservice Inspec	tion.				
16. ASME Section XI P	ressure Test Required		YES 🔲 NO	. •				
i	اعتد العولياتون الموالياتون الموالياتون الموالياتون الموالياتون الموالياتون الموالياتون الموالياتون الموالياتون							
Initial Date			NIS-2 Form prior to relea	esing the component				
Initial Date			elow all applicable numbe					
initial Date	replacement		siow all applicable numbe	is for repaired or				
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
8" Pipe 8"X6" Reducing Tee	APN 00061187		297830	MR# 6041897 75 PA				
1" Valve	APN 00067692 APN 45000252	E226R-1-3	LXLX-1	MR# 6041899 \1e -29 MR# 641956				
	12111000202	Lawer-1-5		546610)				
	<u> </u>							
19. Planner Karp C	Signature S	5/27/200 z Print	Name Karl V. Savage					
20. ISI Engineer	Phologosignature	6/18/02_Print	Name <u>Ramakant P. Indap</u>					
21. ANII 🔃 📿	Signature	C-18-02 Print	Name Robert G. Hogstro	m .				
PV-E0093 Ver. 6				73DP-0ZZ17				

FORIV	1 NIS-2 OWN As Requ	ired by the Prov					13
1. Owner: Arizon	na Public Service (Company, et. al.		Date:	05/27/200	12	,
P. O. F	Box 53999, Phœni	x Arizona 85072-	2034	Sheet	: 1 of	2	
2. Plant: Palo V	erde Nuclear Gene	erating Station		Unit:	1.		
<u>5801 S</u>	outh Wintersburg	Road., Tonopah,	Arizona 8535	4-7529 Work	Order Nun	nber <u>2417247</u>	
3. Work Performe	d by: <u>Arizona Public</u>	: Service	-	Туре	of Code Sta	ump <u>None</u>	
				Autho	orization No	o. <u>N/A</u>	
				Expir	ation Date	N/A	
4. Identification of	f System: <u>SG, ASM</u>	E Section III. Clas	s 2	-			
	Construction Code			<u>1974</u> Edition, <u>Wir</u>	nter 1975 A	idenda, Co	ode Case
	Edition of Section >						
•••	f Components Repai	_					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
8" Pipe and Tee	N/A	N/A	N/A	IPSGELOU	2002	Replacement	NO
-						<u> </u>	
							
•							·
7 Danielius - 63	Work: Replaced P	ine Speed due to 1	Flour Appeler	etad Erosion Co	rrosion of	the Original Pin	ina
		Pneumatic	•	perating Pressure			416-1 🛛
8. Test Conducted	_		Nominai O		t Temperati	• —	VIO-1 24
Ou	her Press	ure psi		10	e remperan	I	
inches, (2) infe	emental sheets in it ormation in items it of sheets is record	l thru 6 on this re	port is include	ings may be use ed on each sheet	d provided t, and (3) e	(1) size is 8 ½ ach sheet is nur	X 11 abered

9.	Remarks: Pressure Test per Code Case N-416-1	Replaced	8" Reducing	Tee and Pipe in	n Spool S-004 o	of Line
	1PSGEL011 with Stainless Steel.					

שם. שאודשאד

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.							
Type Code Symbol Stamp	N/A						
Certificate of Authorization No.		Expiration Date: N/A					
Signed: Rindow, Consulti	19 Me allurgical Designee, Title	l'Engineer Date: 10-29-2002					

CERTIFICATE OF INSERVICE INSPECTION

CERTIFICATE OF INS		BIECHON
I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and en inspected the components described in this Owner's reto, and state that to the best examinations and taken corrective measures describ requirements of the ASME Code, Section XI.	nployed by <u>HSB</u> eport during the of my knowledg	e and belief, the Owner has performed
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any m loss of any kind arising from or connected with this ins	lescribed in this anner for any pe	Owner's report. Furthermore, neither
Zet A factories Signature	Commissions:	NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements
Date: 10-24-07.		·

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 1PS	GEL011	2. Code C	lass ASME Section III C	lass 2			
3. Item Description Pip							
4. N-5 Package Number		5. W.O. Ni	ımber 2419643	•			
_	6. Original Construction Code Edition 1974 Edition, Summer 1975 Addenda						
_	Code Edition 1974 Editi						
•			•	M 2417232 FDC#			
8. Work Description Replacement of Pipe spool due to Flow Accelerated Erosion Corrosion, DIDM 2417232 EDC# 2001-00561.							
							
9. 🔲 ISI Flaw	NDE M						
		Report Number	144.44.50				
	uitability of this work as p		.W-4150. DIDM 2417232, EDC# 2	001_00561 There			
	ne Code Pressure Bounds		DIDIVI 2417232, EDC# 2	col-color. There			
							
11. Repair/Replacemer	nt Work Organization Al	PS					
12. Replacement Item (Construction or reconcile	d Code/Edition Sec.III C	212/74 Edition 75 Summe	r Addenda			
			74 Edition 75 Winter Ad				
•	ode/Edition 1992 Edition						
			Thus				
15. Preservice Inspecti	in a second of the second of t		res 🛄 no				
	oz If required, include	e a step in the W.O. to pe	erform Preservice Inspecti	on.			
16. ASME Section XI P	ressure Test Required	2 Y	res 🔲 no				
	/oz If required, include	a step in the W.O. for IS	SI & ANII Inspection.	·			
initial Date		-	NIS-2 Form prior to release	sing the component.			
Initial Date	replacement it	in the w.O. to record be tems.	elow all applicable number	s tor repaired or			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
6" Elbow	APN 00061184		LXCMI	MR# 604187			
6" Pipe	APN 00061183		F00777:	MR# 604187			
8" Pipe	APN 00061187		2978301	MR# 604187			
8" Elbow	APN 00067691		LXLX -1 1	MR# 604187			
8" X 6" Reducer	APN 00061185		LWYG-11	MR# 604187			
		·					
19. Planner K.Q.	01- E	127/2002 Print 1	Name Karl V. Savage				
	Signature	Pate					
20. ISI Engineer	Finder	6/8/02 Print I	Name Ramakant P. Indap				
21 ANII	Age time		Name Robert G. Hogstron	n ·			
21. ANII	(Signature	Cate Print	TOUCH O. HOESTO				
FV-F0003 Ver &				730P-6ZZ17			

PV-E0093 Ver. 6

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	ona Public Service (Company, et. al.			Date:	05/27/200	02	
P.O. J	Box 53999, Phoeni	ix Arizona 85072	<u>-2034</u>		Sheet:	: 1 of	2	
2. Plant: Palo \	Verde Nuclear Gene	erating Station			Unit:	1		
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529				<u>54-7529</u>	Work	Order Nur	mber <u>2419643</u>	
3. Work Performe	ed by: <u>Arizona Public</u>	c Service			Туре	of Code Sta	amp <u>None</u>	
					Autho	rization No	o. <u>N/A</u>	
				;	Expira	ation Date	N/A	•
4. Identification o	of System: SG. ASM	AE Section III. Clas	<u>is 2</u>			•		
5. (a) Applicable	Construction Code A	ASME Section III 1	VC. Class 2	<u>1974</u> Edition	ı, <u>Win</u> t	ter 1975 A	ddenda, Co	ode Case
(b) Applicable	Edition of Section X	I Utilized for Repa	airs or Replace	ments: <u>199</u>	2 Edit	tion, 1992	Addenda	
6. Identification of	of Components Repair	red or Replaced an	d Replacement	Component	ts	<u></u>		
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
6" and 8" Pipe	N/A	N/A	N/A	IPSLELOW		2002	Replacement	NO
7. Description of V	Work: Replaced Pi	pe Spool due to F	low Accelera	ated Erosion	n Corr	rosion of t	he Original Pip	ing.
8. Test Conducted:	: Hydrostatic	Pneumatic	Nominal Or	perating Pres	isure [☐ Exe	empt N-4	16-1 🛛
Ott	her Pressu	ure IIC8 psi			Test'	Temperatur	re <u>565</u> °F	
	•							
inches, (2) info	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.							

9. Remarks: Pressure Test per Code Case N-416-1, Work Order 2419643, Replaced 6" Spool S-001 and 8" Spool S-009 of Line 1PSGEL011 with Stainless Steel.

	Certificate of Comp	liance
We certify that the statements made in the ASME Code, Section XI.	the report are correct and	this replacement conforms to the rules of
Type Code Symbol Stamp	N/A	
Certificate of Authorization No.	N/A	Expiration Date: N/A
Signed: Willy Owner or Owner	ZSZ EMINEST	Date: 10/29/02

CERTIFICATE OF INS	SERVICE INSPECTION
Inspectors and the State or Province of <u>Arizona</u> and er inspected the components described in this Owner's reto, and state that to the best	i by the National Board of boiler and Pressure Vessel inployed by HSB CT of Hartford, Connecticut, have eport during the period of of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
concerning the examinations and corrective measures	s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements
Date: 10-29-02	

PV-E0092 Ver. 7 Back

	ASME SECT	ION XI - REPAIR	REPLACEMENT	ſ
1. Component ID		2. Code 0		alve pos 1/25/2
3. Item Description 1	JSICUV0653 PRESSUR	E LOCK PREVENTION	N SYSTEM CHECK-V	TAE 01 0/42/07
4. N-5 Package Numb	er <u>DIWO 1008568</u>	5. W.O. N	umber <u>2439909</u>	4
6. Original Construction	n Code Edition ASME	SECT. III, CL 1 1974 E	DITION S'76 ADD	· .
7. Original Installation	Code Edition ASME SI	ECT. III, CL 1 1974 ED	TTION W'75 ADD	
	EPLACE THE STEM A ODY SEAL WELD.	ND DISC ASSEMBLY	(IF REQUIRED) AND	THE BONNET TO
_				
9. 🔲 ISI Flaw	NDE A	lethod of Flaw Detection	·	
_		Report Number		
Volve lear		er the requirements of Meathure		NE SEC. DP
boundary	,	<u>-</u>		
11. Repair/Replacemen	nt Work Organization A	RIZONA PUBLIC SER	VICE / J	16.9-02 4
12. Replacement Item (Construction or reconcile	d Code/Edition ASME	SECT. III, CL 2 1974 I	EDITION W75 ADD
13. Repair/Replacemer	nt Activity Construction C	ode/Edition ASME SEC	T. III, CL 2/1974 EDI	TION W75 ADD
14. ASME Section XI C	ode/Edition 1992 EDIT	ION, 1992 ADD.	13010	1-2-05 Ameng
15. Preservice Inspecti	ion Required.	.	YES 🗹 NO	
N/A 06/24/0	22 If required, includ	e a step in the W.O. to po	erform Preservice Inspe	ction.
16. ASME Section XI P	ressure Test Required		res 🗹 No	
N/A 06/24/0	•	a step in the W.O. for IS	SI & ANII Inspection.	
Initial Date JD 06/24/0)2 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rel	easing the component.
Initial Date JD 06/24/0		in the W.O. to record be		,
Initial Date	replacement i	tems.		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
	-			
9	•			
19. Planner	Signature	06/24/01 Print I	Name JAMES L DAVI	S
20. ISI Engineer	Pholap Emature	5/25/6/ Print I	Name: R. P. In	IPAP
21. ANII 25	Tylen.	4-25-02 Print !	Name R.G. 4000	TROM
PV-E0093 Vec. 6	()Signature	Date		730P-6/ZZ17

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 10/09/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2439909 Work Order Number None Type Code Symbol Stamp 3. Work Performed by Arizona Public Service Authorization No. N/A 5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7525 Expiration Date N/A Safety Injection 4. Identification of System 5. (a) Applicable Construction Code ASME Sect III, Cl 1 1974 Edition, S76 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 ASME Code Repaired Manufacturer National Other Year Name of Name of Stamped Manufacturer Board No. Identification Built Item Serial No. Replacement (Yes or No) 96SN0404 N/A 1PSIAVA07 1996 Repaired Yes Valve Borg-Warner 7. Description of Work Rework the valve to correct leakage past the seat, replace the seal weld. Pneumatic Nominal Operating Pressure Exempt 🗹 N-416-1 8. Test Conducted: Hydrostatic Test Temp. Other | Pressure 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

73DP-9ZZ17

the number of sheets is recorded at the top of this form.

Domada	Wada O-4 0400000	regised the stem /disc see	mbly and removed and replaced the co	ما سماما
Hemarks	between the bonnet and b	_ 1	mbly and removed and replaced the se	at weld
	CI	ERTIFICATE OF CO	MPLIANCE	
	ry that the statements made SME Code, Section XI.	e in the report are correc	et and this <u>repair</u> conforms to the repair or replacement	the rules
Type Co	de Symbol Stamp	N/A		
			Expiration Date N/	Α
	-		ingineer Date 10/9/0	
Oigiled_	Own	er or Owner's Designee, Title	Topping Topping	<u> </u>
	CERTIF	ICATE OF INSERV	CE INSPECTION	
	lersigned, holding a valid c	commission issued by the	CE INSPECTION National Board of Boiler and Pressure Phologed byHSB CT	e Vessel
Inspector of <u>Har</u> the period belief, the	lersigned, holding a valid cost and the State or Province of the Connecticut, had, had	eommission issued by the e of <u>Arizona</u> and er ave inspected the composition of the composition of the compositions and taken compositions and taken compositions and taken compositions and taken compositions.	e National Board of Boiler and Pressure inployed by HSB CT onents described in this Owner's Reported state that to the best of my knowled trective measures described in this Owner's Reported in th	t during ige and
Inspector of Harthe period belief, the Report in By signin concernir neither the	lersigned, holding a valid constant the State or Province tford. Connecticut had 6-25-02 to 60 Connecticut had 6-25-02 to 60 Connecticut has performed examinations and constant the constant of the examinations and constant the	commission issued by the e of <u>Arizona</u> and er ave inspected the company aminations and taken contractive measures described in any	e National Board of Boiler and Pressure in Property of the Pro	t during dge and mer's r implied
Inspector of Har the period belief, the Report in By signin concerning	lersigned, holding a valid of sand the State or Province of the State of t	commission issued by the e of <u>Arizona</u> and er ave inspected the companies and taken commissions and taken contempts of the ASME Commissions are inspector nor his employment of the electric measures described in any of from or connected with	e National Board of Boiler and Pressure in Property of the Pro	t during ige and mer's r implied ore, erty

ASME SECTION XI - REPAIR / REPLACEMENT PAGE 1 OF 2 2. Code Class ASME Section III Class 1 1. Component ID 1PRCEL032 Item Description: Reactor Coolant System Hot Leg #1 line 1PRCEL032, Spool S001. 5. W.O. Number: 2455746 4. N-5 Data Package Number: 1RC01-4 & 1RC01-18A 6. Original Construction Code Edition: ASME Section III Class 1, 1974 w/ Summer 1974 7. Original Installation Code Edition: ASME Section III Class 1, 1974 w/Winter 1975 8. Work Description: Replace existing Inconel 600 thermowells with Inconel 690 thermowells. The modification includes RTDs 1JRCCTW0112HC, 1JRCATW0112HA, 1JRCETW0111X, 1JRCBTW0112HB and 1JRCDTW0112HD. This work order applies to RCS Hot Leg #1. Ref. DMWO 2376926 and N001-0607-00397 and 00398. NDE Method of Flaw Detection: 9. ISI Flaw Report Number: 10. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Existing income 600 mozzies are susceptible for PWSCC. As a preventive measure, being replaced by in conel 690 material. 11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: ASME Section III Class 1, 1974 w/ Summer 1974 13. Repair/Replacement Activity Construction Code/Edition: ASME Section III Class 1, 1974 w/Winter 1975 14. ASME Section XI Code/Edition: 1992 Edition, 1992 Addenda 15. Preservice Inspection Required: ☐ YES M NO If required, include a step in the W.O. to perform Preservice Inspection ☐ YES ASME Section XI Pressure Test Required: ⊠ 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. Serial No. Heat No. MR/ROS No. Part No. Item ID N/A IJRCETW0111X, Nozzle APN 00067199 WA NA \\/ APN 00067116 IJRCETW0111X, Thermowell 18 N/A APN 00067199 IJRCATW0112HA, Nozzle 18 ŊΔ N/A URCATW0112HA, Thermowell APN 00067116 O 5 N/A IJRCCTW0112HC, Nozzle APN 00067199 N/A ०५ N/a APN 00067116 IJRCCTW0112HC, Thermowell Printed Name: Herbert L. Green 19. Planner Printed Name: R.G. Howar Rom 6-26-02 4. ANII

ASME SEC	TION XI – REPAIR	REPLACEMENT	PAGE 2 OF	2		
1. Component ID 1PRCEL032 2. Code Class ASME Section III Class 1 Item Description: Reactor Coolant System Hot Leg #1 line 1PRCEL032, Spool S001. 4. N-5 Data Package Number: 1RC01-4 & 1RC01-18A 5. W.O. Number: 2455746						
6. Original Construction Code Edition: ASME Section III Class 1, 1974 w/ Summer 1974						
7. Original Installation Code Edition			•			
	cisting Inconel 600 thermow					
	70112HC, 1JRCATW0112F order applies to RCS Hot L					
9. ISI Flaw		E Method of Flaw Detection				
7. [] WITM!		ort Number:	•			
10. Evaluation of the suitability of	•					
5	ee page 1	·				
·						
11. Repair/Replacement Work Org	renization: Arizona Public	Service				
12. Replacement Items Construction	•	•	ss 1. 1974 w/ Summe	r 1974		
13. Repair/Replacement Activity C						
14. ASME Section XI Code/Editio		=				
15. Preservice Inspection Required	:	res 🛛 no				
Initial Bate	If required, inclu	de a step in the W.O. to per	form Preservice Insp	ection		
.o. ASME Section XI Pressure Tea	st Required:	es 🛛 no				
Initial Date	If required, inclu	de a step in the W.O. for IS	& ANII Inspection.			
Initial P Date	17. Include a ste	p in the W.O. to complete I	IIS-2 Form prior to r	eleasing the		
118	отронова					
Initial Y Date	18. Include a ste	p in the W.O. to record belos. s.	ow all applicable nun	obers for repaired or		
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.		
1JRCBTW0112HB, Nozzle	APN 00067199	WA- 41	MA	(84469		
1JRCBTW0112HB, Thermowell	APN 00067116	N/A 41	MA	684469		
1JRCDTW0112HD, Nozzle	APN 00067199	25 ,274	r/A	684476		
1JRCDTW0112HD, Thermowell	APN 00067116	E5 AM	~/a	684470		
111		•	•			
19. Planner	U/H/AZ Date	Printed Name: He	bert L. Green			
20. ISI Production Signature	Date Date	Printed Name:	in P-INDX	<u>P</u>		
21 1 -		•	4			
21. ANII KD Totan Signature	. 6-%-02 Date	Printed Name:	E HOUST NOW			
and the same	,200	·	<u> </u>			

(

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

•							
1. Owner: Arizon	1. Owner: Arizona Public Service Company, et. al. Date: 06/14/2002						
<u>P. O. I</u>	P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2						
2. Plant: Palo V	2. Plant: Palo Verde Nuclear Generating Station Unit: 1						
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	4-7529 Worl	Order Num	aber <u>2455746</u>	
3. Work Performe	d by: Arizona Public	: Service		Туре	of Code Sta	mp None	
				Auth	orization No	o. <u>N/A</u>	
				Expi	ration Date	<u>N/A</u>	
4. Identification o	f System: Reactor (Coolant System line	number 1PRC	EL032, Spool S	<u>001</u>		
5. (a) Applicable	Construction Code	ASME Section III N	IB, Class 1	974 Edition, Sur	nmer 1974 A	Addenda,(Code Case
(b) Applicable	Edition of Section X	II Utilized for Repa	irs or Replace	ments: <u>1992 Ed</u>	ition, 1992	Addenda	
6. Identification o	f Components Repai	red or Replaced and	d Replacement	Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or
							NO)
RCS Hot Leg #1	Combustion Engineering	771-301	N/A	1PRCEL032	1978	Repaired	YES
		·					
7. Description of Work: Replace a section of existing Inconel 600 RTD nozzles with a new design Inconel 690 RTD nozzles, and replace existing Inconel 600 thermowells with Inconel 690 thermowells. The modification includes RTDs 1JRCCTW0112HC, 1JRCATW0112HA, 1JRCETW0111X, 1JRCBTW0112HB and 1JRCDTW0112HD. This work order applies to RCS Hot Leg #1. Ref. DMWO 2376926 and N001-0607-00397 and 00398. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 Other Pressure psi Test Temperature F							
inches, (2) infe	emental sheets in formation in items 1 r of sheets is record	thru 6 on this re	port is include	ings may be used on each shee	d provided t, and (3) e	(1) size is 8 ½ ach sheet is num	X 11 abered

F	ORM NIS-	2 (Back)	
Remarks:			
W.O. 2455746		·	
		•	
Ce	rtificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	e report are correct	and this replacement conform	s to the rules of
Type Code Sýmbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: Phology, Consulti	An Metallions	Dial Engineer Date: 10.	-29-28-02
Owner or Owner's D	esignee, Title		
		,	
		,	
CERTIFICAT	E OF INSER	VICE INSPECTION	
I, the undersigned, holding a valid common Inspectors and the State or Province of A inspected the components described in the to, and state the examinations and taken corrective mean requirements of the ASME Code, Section	rizona and employ nis Owner's report at to the best of my asures described in	ed by <u>HSB CT</u> of <u>Hartford</u> , during the period of <u>6-2</u> knowledge and belief, the Ov	Connecticut, have
By signing this certificate, neither the Ins	spector nor his emp	oloyer makes any warranty, ex	pressed 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

Commissions: NB 9685 "N" "T" AZ264

National Board, State, Province, and Endorsements

loss of any kind arising from or connected with this inspection.

ASME SECTION XI - REPAIR / REPLACEMENT PAGE 1 OF 2 2. Code Class ASME Section III Class 1 1. Component ID 1PRCEL063 . Item Description: Reactor Coolant System Hot Leg #2 line 1PRCEL063, Spool S001. 4. N-5 Data Package Number: 1RC01-4 & 1RC01-18A 5. W.O. Number: 2455748 6. Original Construction Code Edition: ASME Section III Class 1, 1974 w/ Summer 1974 7. Original Installation Code Edition: ASME Section III Class 1, 1974 w/Winter 1975 Replace existing Inconel 600 thermowells with Inconel 690 thermowells. The modification includes RTDs 8. Work Description: IJRCCTW0122HC, 1JRCATW0122HA, 1JRCETW0121X, 1JRCBTW0122HB and 1JRCDTW0122HD. This work order applies to RCS Hot Leg #2. Ref. DMWO 2376926 and N001-0607-00397 and 00398. NDE Method of Flaw Detection: 9. ISI Flaw Report Number: 10. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Existing inconel 600 nossle susceptible for PWSCC. As a preventive measure, it is being replaced by Inconel 600 material. RPI measure, it is being replaced by Inconel 600 material. G126/02 11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: ASME Section III Class 1, 1974 w/ Summer 1974 13. Repair/Replacement Activity Construction Code/Edition: ASME Section III Class 1, 1974 w/Winter 1975 14. ASME Section XI Code/Edition: 1992 Edition, 1992 Addenda M NO 15. Preservice Inspection Required: ☐ YES If required, include a step in the W.O. to perform Preservice Inspection ☐ YES M NO ASME Section XI Pressure Test Required: If required, include a step in the W.O. for ISI & ANII Inspection. Initial 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. MR/ROS No. Heat No. Serial No. Part No. Item ID NIA APN 00067199 WA 1JRCETW0121X, Nozzle 39 NP WA APN 00067116 1JRCETW0121X, Thermowell N/A N/A 1JRCATW0122HA, Nozzle APN 00067199 00067116 WA NIA APN 1JRCATW0122HA, Thermowell 32 N/A N/A APN 00067199 1JRCCTW0122HC, Nozzle 684472 ろと ΝΔ APN 00067116 WA 1JRCCTW0122HC, Thermowell alact.

19.	Planner	Signature	Date ·	Timed Ivanic
20.	ISI	Phodap	6/26/02	Printed Name: R.P. INDAP
		Signature	Date	;
21.	ANII_	25 fortine	6-26-02	Printed Name: R.G. Hogstrom
		Signature	Date	
	200 May 6			730P-422

1. Component ID <u>1PRCEL063</u>		2. Code Class ASME S	ection III Class 1		
. Item Description: Reactor Coo	. Item Description: Reactor Coolant System Hot Leg #2 line 1PRCEL063, Spool S001.				
4. N-5 Data Package Number: 1R	C01-4 & 1RC01-18A	5. W.O. Number: 245574	<u> 18</u>		
6. Original Construction Code Edi	ition: ASME Section III Clas	s 1, 1974 w/ Summer 1974			
7. Original Installation Code Editi	on: ASME Section III Class	1. 1974 w/Winter 1975			
8. Work Description: Replace e					
	V0122HC, 1JRCATW0122H				
	order applies to RCS Hot Le			397 and 00398.	
9. ISI Flaw		Method of Flaw Detection	1:		
10 Postanta e fata antabilia a	•	ort Number:			
10. Evaluation of the suitability of					
	see page.	<u>1</u> .			
	•		-		
11. Repair/Replacement Work Or	ganization: Arizona Public	Service			
12. Replacement Items Constructi	on or reconciled Code/Editio	n: ASME Section III Cla	ss 1, 1974 w/ Summer	1974	
13. Repair/Replacement Activity	Construction Code/Edition:	ASME Section III Class 1	. 1974 w/Winter 1975		
14. ASME Section XI Code/Edition	on: <u>1992 Edition, 1992 Ad</u>	ldenda			
15. Preservice Inspection Required	i: 🔲 Y	es 🛭 No			
Initial	If required, include	le a step in the W.O. to per	form Preservice Inspec	ction	
6. ASME Section XI Pressure Te	<u> </u>	es 🛛 no	•		
6. ASME Section At Plessure 16	• –	-			
Initial Date	If required, include	le a step in the W.O. for IS	i & ANII inspection.		
Initial Date	17. Include a step	in the W.O. to complete M	VIS-2 Form prior to rel	leasing the	
	18 Include a ster	in the W.O. to record belo	ow all annlicable numb	vers for renaired or	
Initial Date	replacement items		o-15-02 MR No		
Yana ID		Serial No.C.S.		MR/ROS No.	
Item ID	Part No.		1		
1JRCBTW0122HB, Nozzle	APN 00067199	NX 41 27	684475	6173588	
1JRCBTW0122HB, Thermowell	APN 00067116	75 72 AU	<u>684475</u>	617358	
1JRCDTW0122HD, Nozzle	APN 00067199	P5 XX	684476	617359	
1JRCDTW0122HD, Thermowell	APN 00067116	P5 AW	684476	617359	
		G. Wes 10.	-15-02		
11111		*SEE PS !		<u> </u>	
19. Planner	(dafre	*SEE PS / Printed Name: Her	rbert L. Green		
Signature	Date				
20. ISI Pormago	6/26/6	2 Printed Name:	2.P.INDAF	>	
Signature	Date				
0h 1 -		2 Printed Name: F	1, 1		
21. ANII A Frotone	6-26-02	Printed Name: K	.c. Mogsten		
Signatur	Date				

ASME SECTION XI – REPAIR / REPLACEMENT

PAGE 2 OF 2

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	1. Owner: Arizona Public Service Company, et. al. Date: 06/14/2002						
P. O. 1	P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2						
2. Plant: Palo V	Verde Nuclear Gen	erating Station		υ	nit: <u>1</u> 0	· ·	
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 W	ork Order Nur	nber <u>2455748</u>	
3. Work Performe	ed by: <u>Arizona Public</u>	c Service		T	pe of Code St	amp <u>None</u>	
				A	uthorization Ne	o. <u>N/A</u>	
	•			E	piration Date	<u>N/A</u>	
4. Identification o	of System: Reactor (Coolant System line	number 1PRC	CEL063, Spoo	S001		
5. (a) Applicable	Construction Code 2	ASME Section III N	VB, Class 1	1974 Edition,	Summer 1974	Addenda,	Code Case
(b) Applicable	Edition of Section 3	A Utilized for Repa	airs or Replace	ments: 1992	Edition, 1992	Addenda	
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificati	Year on Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
RCS Hot Leg #2	Combustion Engineering	771-501	N/A	1PRCEL063	1978	Repaired	YES
						·	
7. Description of Work: Replace a section of existing Inconel 600 RTD nozzles with a new design Inconel 690 RTD nozzles, and replace existing Inconel 600 thermowells with Inconel 690 thermowells. The modification includes RTDs 1JRCCTW0122HC, 1JRCATW0122HA, 1JRCETW0121X, 1JRCBTW0122HB and 1JRCDTW0122HD. This work order applies to RCS Hot Leg #2. Ref. DMWO 2376926 and N001-0607-00397 and 00398. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1							
Other Pressure psi Test Temperature F							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.							

FO	RM	NIS-	2 (Bacl	k)
	TATAT	T ATO	e (Duc)	

Remarks: 2455748

Certificate of Compliance					
We certify that the statements made in the the ASME Code, Section XI.	e report are correct	t and this replacement conform	s to the rules of		
Type Code Symbol Stamp	N/A				
Certificate of Authorization No.		Expiration Date:			
Signed: Produp Consultin	ng Metallumica Signee, Title	Engineer Date: 10-	29-02		

CERTIFICATE OF INSERVICE INSPECTION

	ERVICE HIGH ECTION
Inspectors and the State or Province of Arizona and en inspected the components described in this Owner's reto 6-22-02, and state that to the best	by the National Board of boiler and Pressure Vessel aployed by HSB CT of Hartford, Connecticut, have eport during the period of 6-26-02 of my knowledge and belief, the Owner has performed sed in this Owner's Report in accordance with the
concerning the examinations and corrective measures of	s employer makes any warranty, expressed or implied, lescribed in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a pection.
A Shorton Inspectors Signature	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements
Date: 10-29-02	

	ASME SECTION	ON XI - REPAIR/	REPLACEMENT	7-00 10 4				
1. Component ID 1JRC	EPSV0200	2. Code C	lass ASME III, CLASS	31				
3. Item Description PRI								
4. N-5 Package Number	1RC03-2	5. W.O. No	imber <u>2456198</u>					
6. Original Construction	6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA							
7. Original Installation C								
8. Work Description Re	place Pressurizer safety	valve with reconditioned	i spare.					
			CALL THE CONTROL OF T					
		# <u>#2.111</u>						
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection						
		Report Number						
10. Evaluation of the sui								
	III pressure boundary.	Spare valve is a like-för	-like replacement and is	being replaced to				
support vendor testi	ng.		~ ~ ~.					
11. Repair/Replacement	Work Organization AR	IZONA PUBLIC SERV	ИСЕ					
12. Replacement Item C	onstruction or reconciled	Code/Edition ASME I	II CLASS 1, 1974 ED.,	S'75 ADD.				
13. Repair/Replacement			• • •					
14. ASME Section XI Co	de/Edition 1992 EDITI	ON AND 1992 ADDEN	√DA [^]					
15. Preservice Inspection		O .S	· ·					
DMG 06/03/02	•	-	erform Preservice Inspe	ction.				
initial Date		<u></u> :						
16. ASME Section XI Pre	·	· [2]	••	• -				
DMG 06/03/02 Initial Date		a step in the W.O. for IS						
DMG 06/03/02 Initial Date			NIS-2 Form prior to rele					
DMG 06/03/02	2 18. Include a step replacement it	in the W.O. to record be ems.	low all applicable numb	ers for repaired or				
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MB/ROS NO.				
1JRCEPSV0200	N/A	BY-14537	N/A	00689970-1				
	i							
	, cardo so							
	and a second	Frank byd. His						
			'53					
19. Planner Sand	M Donald		Name David Goodlet	· · · · · · · · · · · · · · · · · · ·				
	Signature	Date	Name - Demokent Indon					
20. ISI Engineer	Signature		Name Ramakant Indap					
21. ANII	Lyture	8-8-02 Print	Name Robert Hogstrom	1				
PV-E0093 Ver. 6	signature	Date	i de de la companya d	730P-92Z17				

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		07/10/02	·
P.O. Box 53999, Phoenix, Arizona 85072-2034 Address								
2. Plant Palo Ve	rde Nuclear Gener	ating Station			Unit		1	
<u>5801 S.</u>	Wintersburg Rd.,	rame Fonopah, Ariz	ona 85354	<u>-7529</u>			2456198	
							Work Order Number	
3. Work Performed by PVNGS Maintenance Dept.						ode Syr	mbol Stamp	None
• • • • • • • • • • • • • • • • • • • •					Authoriz	ation N	lo. <u>N</u>	V A
5801 S.	5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529					on Date	. <u>N</u>	<u>/A</u>
4. Identification of Sy	stem RC - Reac	ctor Coolant sy	ystem		 	···		
5. (a) Applicable Co	nstruction Code ASN	IE III Class 1	19 <u>74</u>	Edition,	<u>S'75</u>	_ Add	enda,	_ Code Case
(b) Applicable Ed	ition of Section XI Utiliz	zed for Repairs or	r Replacemer	nts 19	<u>92</u> Edit	tion, _	1992 Adde	nda
6. Identification of Co	omponents Repaired o	r Replaced and R	leplacement (Compor	nents			
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	O Identi	ther fication	Year Built	Repaired or Replacemen	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	BY-14537	N/A	1	SV0200	i	Replacement	
								<u> </u>
•								
7. Description of Wor	k Replace pressuri	zer safety valv	ve with rec	onditio	oned an	d test	ed spare.	
8. Test Conducted:	Hydrostatic P	neumatic 🔲	Nominal Ope	erating F	Pressure	Ø	Exempt	N-416-1 🔲
	Other 🔲	Pressure	psi	٠	•	Test Te	emp.	_°F
(2) information in it	tal sheets in form of ems 1 through 6 on t ts is recorded at the	this <mark>report is inc</mark>	luded on ea	may b ch she	e used, et, and	provid (3) ead	ied (1) size is 8 ch sheet is nun	3 1/2 x 11 in., nbered and

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	FORM NIS-2 (Back)					
9.	Remarks	Work order; # 245619 valve is replaced to su				SV0200. This
						<u>-</u>
		-	CERTIFICATE	OF COMPLIAN	CE	
		ry that the statements m SME Code, Section XI.	ade in the report a		replacement confo	rms to the rules
	Type Cor	de Symbol Stamp	N/A	•		
	1	e of Authorization No			Fyniration Date	N/A
		Forday,				
•						
		CERI	IFICATE OF IN	ISERVICE INSP	ECTION	
	inspectors of <u>Har</u> the period belief, the	lersigned, holding a valid so and the State or Proving the Connecticut of the Connecticut of the Country of the	nce of <u>Arizona</u> , have inspected the <u>lo-22-oz</u> examinations and	_ and employed by the components desc , and state that taken corrective me	HSB CT ribed in this Owner's at to the best of my k asures described in t	Report during nowledge and
	concernin	g this certificate, neither ng the examinations and e Inspector nor his emp or a loss of any kind aris	corrective measu loyer shall be liable	res described in this e in any manner for	Owner's Report. Fu any personal injury o	rthermore,
		Bt & Automatic			タンなら "人心に" Az onal Board, State, Province, a	

Date

Inspector's Signature

10-29-02

and the second of the second o

	ASME SECTION	ON XI - REPAIR	REPLACEMEN	T - 10/31/6		
1. Component ID 1.	RCEPSV0201	2. Code (Class ASME III, CLAS	SS 1		
•	PRESSURIZER SAFETY					
4. N-5 Package Num	ber <u>1RC03-2</u>	5. W.O. N	umber <u>2456199</u>	•		
6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA						
7. Original Installatio	n Code Edition ASME III	CLASS 1, 1974 EDITI	ON, WINTER 1975 AI	DDENDA		
8. Work Description	Replace Pressurizer safety	valve with reconditione	d spare.			
-	1.00	· ve	:			
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection	1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	· · · · · · · · · · · · · · · · · · ·		
	·,	Report Number	e de propins			
	suitability of this work as pe	•				
No failure of AS support vendor to	ME III pressure boundary.	Spare valve is a like-for	-like replacement and i	s being replaced to		
support vendor u	Sung.	The state of the s				
			7,.4			
11. Repair/Replaceme	ent Work Organization AR	IZONA PUBLIC SER	VICE			
12. Replacement Item	Construction or reconciled	Code/Edition ASME I	II CLASS 1, 1974 ED.	S'75 ADD.		
13. Repair/Replaceme	ent Activity Construction Co	de/Edition ASME III C	LASS 1, 1974 ED., W	75 ADD.		
	Code/Edition 1992 EDITION	-				
15. Preservice Inspec	tion Required		:: (ES ☑ NO			
DMG06/03		. 💳	erform Preservice Inspe			
Initial Dat	8			-4		
	Pressure Test Required		1 1 1 T			
DMG 06/03		a step in the W.O. for is				
DMG 06/03	· .		NIS-2 Form prior to rel			
DMG 06/03	/02 18. Include a step in replacement ite	n the W.O. to record be	low all applicable numb	ers for repaired or		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MB/ROS NO.		
1JRCEPSV0201	N/A	BQ-07679	'~ N/A	00489974-1		
	· · · · · · · · · · · · · · · · · · ·					
19. Planner	len Doublet	6-7-D2 Print !	Name David Goodlet			
	Signature	Date	·, .			
20. ISI Engineer	Signature Signature	Date	Name Ramakant Indap			
21. ANII	25/2	•	lame Robert Hogstron	1 ·		
	Signature	Date	Carrie			

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 07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp Authorization No. _____ N/A 5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A RC - Reactor Coolant system 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 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 Repaired Name of Manufacturer ASME Code National Other Year Board No. Identification Built Replacement Stamped Item Manufacturer Serial No. (Yes or No) Safety Valve Dresser BQ-07679 N/A RCEPSV0201 Replacement Yes 7. Description of Work Replace pressurizer safety valve with reconditioned and tested spare. 8. Test Conducted: Hydrostatic Pneumatic T Nominal Operating Pressure Exempt N-416-1 🔲 Other 🔲 Pressure psi Test Temp. 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

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the number of sheets is recorded at the top of this form.

FORM	NIS-2 ((Bac	k)
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Remarks				
			t of pressurizer safety valve 1JRCEI	
			and reconditioning. This valve was control Addendum and reconciled to the	
	ASME III Class 1, 1971	1 Edition, Winter 19	/2 Addendam and reconciled to the	1974., S 75 Add.
				
				· . · · · · · · · · · · · · · · · · · ·
	·			
	(CERTIFICATE O	F COMPLIANCE	
1	y that the statements ma	ade in the report are	correct and this replacement confi	orms to the rules
Type Co	de Symbol Stamp	N/A		
Certificat	e of Authorization No.	N/A	Expiration Date	N/A
Signad (TEHOODERD, CO	asulting Ma	heller is I Somewhat	2-20-02
Signed \	181005GL), G	wner or Owner's Designee, T	ballungical Engineer Date 16	29-02
		•		
	CERTI	IFICATE OF INS	ERVICE INSPECTION	
:	CERTI	IFICATE OF INS	ERVICE INSPECTION	
	ersigned, holding a valid	commission issued	by the National Board of Boiler and I	i
Inspector	ersigned, holding a valid s and the State or Provin	commission issued ace of <u>Arizona</u> a	by the National Board of Boiler and I nd employed by <u>HSB CT</u>	
Inspector of <u>Har</u>	ersigned, holding a valid s and the State or Provin tford, Connecticut	commission issued ace of <u>Arizona</u> a have inspected the	by the National Board of Boiler and I and employed by HSB CT components described in this Owner	s Report during
Inspector of <u>Har</u> the period	ersigned, holding a valid s and the State or Provin tford, Connecticut, ito	commission issued ace of <u>Arizona</u> and the constant of the con	by the National Board of Boiler and I and employed by <u>HSB CT</u> components described in this Owner and state that to the best of my	s Report during knowledge and
Inspector of <u>Har</u> the period belief, the	ersigned, holding a valid s and the State or Provintford, Connecticut, to 3-3-02 to Owner has performed e	commission issued ace of <u>Arizona</u> and take inspected the control of the control of taken and ta	by the National Board of Boiler and I and employed by	s Report during knowledge and
Inspector of <u>Har</u> the period belief, the	ersigned, holding a valid s and the State or Provin tford, Connecticut, ito	commission issued ace of <u>Arizona</u> and take inspected the control of the control of taken and ta	by the National Board of Boiler and I and employed by	s Report during knowledge and
Inspector of <u>Har</u> the period belief, the Report in	ersigned, holding a valid s and the State or Provintor to the State or Provintor to the state of	commission issued ace of <u>Arizona</u> a have inspected the control of the examinations and take uirements of the AS	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI.	s Report during knowledge and this Owner's
Inspector of <u>Har</u> the period belief, the Report in	ersigned, holding a valid is and the State or Provint of Connecticut to the state of the state o	commission issued ace of <u>Arizona</u> a have inspected the constant in the constant in the constant in the last act of the AS the Inspector nor his	by the National Board of Boiler and Ind employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expr	s Report during knowledge and this Owner's
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the State or Provint of Connecticut to the state of the State or Provint of the state of the	commission issued ace of <u>Arizona</u> a have inspected the control of the Assertation and take uirements of the Assertation in the Inspector nor his corrective measures	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my ten corrective measures described in ME Code, Section XI. employer makes any warranty, expressioned in this Owner's Report.	s Report during knowledge and this Owner's essed or implied, urthermore,
Inspector of <u>Har</u> the period belief, the Report in By signing concerning neither the	ersigned, holding a valid s and the State or Provint of the Examinations and the Inspector nor his employed.	commission issued ace of <u>Arizona</u> a have inspected the constant and take a second to the following the inspector nor his corrective measures by er shall be liable in	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible din this Owner's Report. For any manner for any personal injury	s Report during knowledge and this Owner's essed or implied, urthermore,
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the State or Provint of Connecticut to the state of the State or Provint of the state of the	commission issued ace of <u>Arizona</u> a have inspected the constant and take a second to the following the inspector nor his corrective measures by er shall be liable in	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible din this Owner's Report. For any manner for any personal injury	s Report during knowledge and this Owner's essed or implied, urthermore,
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the Examinations and the Inspector nor his employed.	commission issued ace of <u>Arizona</u> a have inspected the constant and take a second to the following the inspector nor his corrective measures by er shall be liable in	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible din this Owner's Report. For any manner for any personal injury	s Report during knowledge and this Owner's essed or implied, urthermore,
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the Examinations and the Inspector nor his employed.	toommission issued have inspected the control of the control of the AS the Inspector nor his corrective measures byer shall be liable in the from or connected.	by the National Board of Boiler and I and employed by HSB CT components described in this Owner and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible of this Owner's Report. For any manner for any personal injury it with this inspection.	s Report during knowledge and this Owner's essed or implied, urthermore, or property
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the Examinations and the Inspector nor his employed.	toommission issued have inspected the control of the control of the AS the Inspector nor his corrective measures byer shall be liable in the from or connected.	by the National Board of Boiler and I and employed by HSB CT components described in this Owner, and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible din this Owner's Report. For any manner for any personal injury di with this inspection.	s Report during knowledge and this Owner's essed or implied, urthermore, or property
Inspector of <u>Har</u> the period belief, the Report in By signing concerning	ersigned, holding a valid s and the State or Provint of the Examinations and the Inspector nor his employed.	toommission issued have inspected the control of the control of the AS the Inspector nor his corrective measures byer shall be liable in the from or connected.	by the National Board of Boiler and I and employed by HSB CT components described in this Owner and state that to the best of my en corrective measures described in ME Code, Section XI. employer makes any warranty, expressible of this Owner's Report. For any manner for any personal injury it with this inspection.	s Report during knowledge and this Owner's essed or implied, urthermore, or property

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	ASME SECT	ION XI - REPAIR	REPLACEMENT	Page 3 94			
1. Component ID 1JF	RCEPSV0202	2. Code 0	class ASME III, CLASS	51			
3. Item Description P	RESSURIZER SAFETY	VALVE; DRESSER 31	709N; 2460 PSIG				
4. N-5 Package Numb	er <u>1RC03-2</u>	5. W.O. N	umber <u>2456200</u>				
6. Original Construction	6. Original Construction Code Edition ASME III CLASS-1, 1974 EDITION, SUMMER 1975 ADDENDA						
7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA							
8. Work Description R	Replace Pressurizer safety	valve with reconditione	d spare.				
· · · · · · · · · · · · · · · · · · ·		•					
9. 🔲 ISI Flaw	NDE N	lethod of Flaw Detection	42				
	* * * * * * * * * * * * * * * * * * *	Report Number					
	uitability of this work as p	•		haina nanta na 4 4a			
support vendor tes	ting.	. Spare valve is a like-ior	-like replacement and is	being replaced to			
	****		**************************************				
			A Section				
11. Repair/Replacement	nt Work Organization A	RIZONA PUBLIC SER	VICE				
12. Replacement Item	Construction or reconcile	d Code/Edition ASME I	II CLASS 1, 1974 ED., S	3'75 ADD.			
13. Repair/Replacemen	nt Activity Construction C	ode/Edition ASME III C	CLASS 1, 1974 ED., W7	5 ADD.			
14. ASME Section XI C	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	NDA '				
15. Preservice Inspect	ion Required.		YES 🗹 NO				
DMG06/03/	• •	a step in the W.O. to pe	erform Preservice Inspec	tion.			
initial Date		, [2]	″. ″				
16. ASME Section XI P DMG 06/03/0			(ES NO				
Initial Date	· · · · · · · · · · · · · · · · · · ·	a step in the W.O, for IS	The state of the s				
DMG 06/03/0			NIS-2 Form prior to rele	•			
DMG 06/03/0	<u>02</u> 18. Include a step replacement it	in the W.O. to record be	low all applicable numbe	rs for repaired or			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
1JRCEPSV0202	N/A	BQ-07678	N/A	00689981-1			
		1,4, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	<u> `</u>	<u> </u>			
	d: 1		1.5				
	A 10.4			<u> </u>			
19. Planner Dend	Signature	6-3-02 Print I	Name David Goodlet				
20. ISI Engineer	Phodayo		Name Ramakant Indap				
	Signature (Date					
21. ANII	Signature	Print I	Name Robert Hogstrom				

PV-E0093 Ver. 6

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 07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2456200 Work Order Number 3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None Authorization No. N/A 5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A RC - Reactor Coolant system 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 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 Repaired ASME Code Name of Manufactureri Name of National Other Year Stamped ltem Manufacturer Serial No. Board No. Identification Built (Yes or No) Replacement Safety Valve Dresser **BO-07678** N/A RCEPSV0202 Replacement Yes 7. Description of Work Replace pressurizer safety valve with reconditioned and tested spare. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 Other Pressure psi Test Temp. 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

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the number of sheets is recorded at the top of this form.

FORM	NIS-2	(Back)
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9.	Remarks	Work order; # 2456200, for the replacement of pressurizer safety valve 1JRCEPSV0202 valve is replaced to support off-site testing and reconditioning. This valve was constructed ASME III Class 1, 1971 Edition, Winter 1972 Addendum and reconciled to the 1974., S'	ed to
		CERTIFICATE OF COMPLIANCE	
		rtify that the statements made in the report are correct and this replacement conforms to to ASME Code, Section XI.	the rules
	Type Co	Code Symbol Stamp N/A	
	1	ate of Authorization No. N/A Expiration Date N/A	<u> </u>
	7	Owner or Owner's Designee, Title	
		CERTIFICATE OF INSERVICE INSPECTION	
	Inspector of <u>Har</u> the period belief, the	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure ors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> <u>artford, Connecticut</u> , have inspected the components described in this Owner's Report of <u>8-8-02</u> to <u>6-28-02</u> , and state that to the best of my knowled the Owner has performed examinations and taken corrective measures described in this Owner accordance with the requirements of the ASME Code, Section XI.	during
	concernir neither th	ing this certificate, neither the Inspector nor his employer makes any warranty, expressed or ning the examinations and corrective measures described in this Owner's Report. Furthermothe Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.	ore,
	· 	Commissions No. 1685 "ANIC" Az. 26 Inspector's Signature Commissions No. 1685 "ANIC" Az. 26 National Board, State, Province, and Endors	1
	Date_	10-29-07	

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	ASMĘ SECT	ION XI - REPAIR	/REPLACEMEN	VT \$270-29-0
1. Component ID 1J	RCEPSV0203	2. Code	Class ASME III, CLA	ASS 1
3. Item Description I	RESSURIZER SAFETY	VALVE; DRESSER 3	1709N; 2460 PSIG	
4. N-5 Package Num	ber <u>1RC03-2</u>	5. W.O. N	lumber 2456201	
6. Original Constructi	on Code Edition ASME	III CLASS 1, 1974 EDI	TION, SUMMER 197	S ADDENDA
	Code Edition ASME II			
	Replace Pressurizer safet	•		
-			•	
-				
9. 🔲 ISI Flaw	NDE N	Method of Flaw Detection	1	
	• •	Report Number		
	uitability of this work as p			
No failure of ASM support vendor te	ME III pressure boundary			is being replaced to
<u> </u>	sung.	e ignisti La la la grande est grande	14 - 40 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		<u> </u>	San	
11. Repair/Replaceme	nt Work Organization A	RIZONA PUBLIC SER	VICE	
12. Replacement Item	Construction or reconcile	d Code/Edition ASME	III CLASS 1, 1974 ED	S'75 ADD.
	nt Activity Construction C			
	Code/Edition 1992 EDIT			
15. Preservice Inspect	, -		YES 🗹 NO	<u> </u>
DMG06/03/	•	e a step in the W.O. to p		-
Initial Date				
16. ASME Section XI P		100	res 🛄 no	
DMG 06/03/	02 If required, include	a step in the W.O. for IS	SI & ANII Inspection.	
DMG 06/03/	02 17. Include a step	in the W.O. to complete	NIS-2 Form prior to re	leasing the component.
DMG 06/03/	02 18. Include a step	in the W.O. to record be	low all applicable num	bers for repaired or
Initial Date	replacement if	tems.		
ITEM I.D. 1JRCEPSV0203	PART NO. N/A	SERIAL NO.	HEAT NO.	(MR)ROS NO.
13/40203	IVA	BY-14538	N/A	00689982-1
	i fe Met ut			
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	4, 200			
	•			
^	A- 0 00-		<u>[-: : : : : : : : : : : : : : : : : : : </u>	
19. Planner Van	Signature Signature	<u> </u>	Name David Goodlet	
20. ISI Engineer	Prodag	_	Name Ramakant Indap) •
04 44111	Signature	Oate		
21. ANII	Signature	Print I	Vame Robert Hogstron	<u>n</u>

Assessment of the second of th

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 07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2. Plant Palo Verde Nuclear Generating Station Unit Tonopah, Arizona 85354-7529 5801 S. Wintersburg Rd., 3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp Authorization No. N/A 5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A RC - Reactor Coolant system 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 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 Repaired ASME Code Name of Name of Manufacturer National Other Year Stamped Item Manufacturer Serial No. Board No. Identification Built Replacement (Yes or No) Safety Valve Dresser BY-14538 N/A RCEPSV0203 Replacement Yes 7. Description of Work Replace pressurizer safety valve with reconditioned and tested spare. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt [] N-416-1 Other 🔲 Pressure psi Test Temp. 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.

PV-E0092 Ver. 7

As Required by the Provisions of the ASME Code Section XI 08/06/02 1. Owner Arizona Public Service Company, et. al. Date P.O. Box 53999, Phoenix, Arizona 85072-2034 - Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station _____ Unit _____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2456236 Work Order Number Type Code Symbol Stamp None 3. Work Performed by Arizona Public Service Authorization No. N/A N/A 5801 S Wintersburg Rd Tonopah, AZ 85354 Expiration Date RC, ASME Section III Class 1 4. Identification of System 5. (a) Applicable Construction Code Section III Class 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 Repaired ASME Code Manufacturer National Year Other Name of Name of or Stamped Board No. Identification Built Manufacturer Serial No. Item Replacement (Yes or No) Q96-574 Sulzer N/A 1MRCEP02A Replacement Yes 3rd Stage Retainer SN-26 IMPCEPOIL Day 5 10-29-62 7. Description of Work Replacement of 3rd stage seal retainer on RCP 2A N-416-1 Pneumatic 1 Nominal Operating Pressure Exempt 8. Test Conducted: Hydrostatic Test Temp. Other 🗍 Pressure 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 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS

Remarks	WO# 2456236 to replace mechanical seals in RCP-IMRCEP02A as part of normal maintenance.
	pmg 10-29-02
	CERTIFICATE OF COMPLIANCE
	y that the statements made in the report are correct and this replacement conforms to the rules repair or replacement.
Type Co	de Symbol StampN/A
Certificat	e of Authorization No. N/A Expiration Date N/A
Signed <u>S</u>	FRANCIAD CONSUlting Metalliorgical Engineer Date 10-29-2002
····	OFFICIAL OF INCERVICE INCRECTION
	CERTIFICATE OF INSERVICE INSPECTION
I, the und	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel
Inspector ofHai	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel is and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> tford, Connecticut , have inspected the components described in this Owner's Report during to wear and state that to the best of my knowledge and
inspector of <u>Har</u> the period belief, the	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessels and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> tford, Connecticut, have inspected the components described in this Owner's Report during
Inspector of <u>Har</u> the period belief, the Report in By signin concerning	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessels and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> tford, Connecticut, have inspected the components described in this Owner's Report during to <u>10-24-02</u> , and state that to the best of my knowledge and cowner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
Inspector of Har the period belief, the Report in By signin concernin neither th damage of	lersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel is and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> tford, Connecticut, have inspected the components described in this Owner's Report during to <u>L-24-02</u> , and state that to the best of my knowledge and a Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI. If this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property

	ASME SECTION XI - REPAIR/REPLACEMENT					
· -	RCEPO2B JMRCEFO	0 1D Dr.G 2. Code C	Class ASME Section III	Class 1		
3. Item Description Re						
4. N-5 Package Numb			umber <u>2456237</u>	8482 1/m		
		Section III, Class 1, 1974		ddenda-9/4/02 -		
		Section III, Class 1, 1974 E		ienda		
8. Work Description M	fechanical Seal Replacer	ement as a part of normal n	maintenance.	*		
9. 🔲 ISI Flaw	NDE I	Method of Flaw Detection				
Or tall 100 F June	•	Report Number				
10. Evaluation of the su	uitability of this work as I	per the requirements of IA				
No failure in the A	•	. Mechanical seals are repl		s a part of normal		
maintenance.						

11. Repair/Replacemen	nt Work Organization A	.PS		A 44-02		
		ed Code/Edition_ASME S	Section III, Class 1, 1974	Ed, Winter 1975 Add.		
•		Code/Edition ASME Secti				
	ode/Edition 1992 Edition	· · · · · · · · · · · · · · · · · · ·	Ми, ст.	William 12.0		
15. Preservice Inspection	· ·		YES 🗹 NO			
BV08/06/0	•	۲ این de a step in the W.O. to pe	· · · · · · · · · · · · · · · · · · ·	tion		
Initial Date	•			uo. 1.		
16. ASME Section XI Pr	•		res 🔲 no			
BV 08/06/0 Initial Date	12 If required, include	e a step in the W.O. for IS	I & ANII Inspection.			
BV 08/06/0	17. Include a step	p in the W.O. to complete	NIS-2 Form prior to relea	asing the component.		
BV 08/06/0		p in the W.O. to record bel	low all applicable number	rs for repaired or		
Initial Date	replacement it	SERIAL NO.	HEAT NO.	MR/ROS NO.		
3rd Stage Seal Retainer	1663509	\$96-579 SN 18	Hart it.	N/A		
		ļ				
·		<u> </u>				
m /	na Vida	1 01.1-	***4_1			
19. Planner 18th	Signature	Date Date N	Name Barbara Vidal			
20. ISI Engineer	Phodop	8/28/07_ Print N	Name R.P. 7	NDAP_		
21. ANII	Signature	Date 4-1~•2 Print`N	lame R.G. Houste	žon.		
21. ANI	() Signature	Date	laine			

FOR	M NIS-2 OWNE As Required	ER'S REPO by the Provis	RT FOR	REI e ASN	PAIR!	S OF de Se	RE ction	PLAC XI	EMENTS
1. Owner <u>Arizon</u>	na Public Service Co	ompany, et. al.	· · · · · · · · · · · · · · · · · · ·	·····	Date _)8/06/02	
	ox 53999, Phoenix,								
2. Plant Palo V	erde Nuclear Gener	rating Station	·	· · · · ·	Unit _			1	_
	. Wintersburg Rd.,								
	by Arizona Public				Type Co	ode Syr	mbol St	tamp	None
								N	
5801 S	Wintersburg Rd To	onopah, AZ 85	<i>i</i> 354		Expiration	on Date	·	N/	<u>'A</u>
4. Identification of S	DO 4004	Æ Section III (Class 1		~				
5. (a) Applicable C	Construction Code Sect	tion III Class 1	19 74	Edition,	W'75	Adde	enda, _	N/A	Code Case
	dition of Section XI Utiliz								
6. Identification of C	Components Repaired or	x Replaced and F	Replacement (Compon	nents				
Name of Item	Name of Manufacturer		r National Board No.		ther fication	Year Built	'	paired or acement	ASME Code Stamped (Yes or No)
3rd Stage Retainer	Sulzer	996-574 SN 18	N/A			1985		cement	1
		1			E POID				
					0-29-02				
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· 			L	<u> </u>					
7. Description of Wo	ork Replacement of	3rd stage seal	retainer on	RCP 2	2B	·		·	
8. Test Conducted:	Hydrostatic P	Pneumatic 🔲 🔝	Nominal Oper	rating P	ressure	Ø	Exemp	ot 🔲 🔃	N-416-1 🔲
	Other	Pressure 22	250 psi		· 1	Fest Te	mp	-565 Pags 10-	_°F 29-0}
(2) information in it	ntal sheets in form of items 1 through 6 on the transport of transport of the transport of transport	this report is incl	cluded on eac	may be ch shee	e used, et, and (provid (3) eac	ed (1) :h shee	size is 8 et is num	1/2 x 11 in., bered and

•		FORM NIS-2 (Back)
9.	Remarks	WO#2456237 to replace mechanical seals in RCP 1MRCEP02B as part of normal maintenance.
		· IMRLEPOID
		\$ 10-11-02
		-
		CERTIFICATE OF COMPLIANCE
		y that the statements made in the report are correct and this replacement conforms to the rules repair or replacement.
	Type Cod	de Symbol StampN/A
		e of Authorization No. N/A Expiration Date N/A
		RAFINAGED, Consulting Metallougical Engineer Date 10-29-2002
•		
		CERTIFICATE OF INSERVICE INSPECTION
		ersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessels and the State or Province of Arizona and employed by HSB CT
	•	tford, Connecticut, have inspected the components described in this Owner's Report during
		to محمد , and state that to the best of my knowledge and
		Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
	concernin	g this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, g the examinations and corrective measures described in this Owner's Report. Furthermore, e Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
		Commissions National Board, State, Province, and Endorsements
	Date	10-24-02
L		

	ASME SECTION	N XI - REPAIR/F	REPLACEMENT	Rye 1 of 8
1. Component ID 1JSC	EPSV0555	2. Çode Cla	ass ASME III, CLASS	32
3. Item Description MA	IN STEAM SAFETY V		•	
4. N-5 Package Numbe	r <u>1SG02-6</u>	5. W.O. Nu	mber <u>2456294</u>	<u>.</u>
	Code Edition ASME III	CLASS 2, 1974 EDITI	ON, SUMMER 1975 A	LDDENDA
	ode Edition ASME III C			
8. Work Description Re	placement of main steam	safety valve, with recon	ditioned spare, per Eng	gineering direction
fol	lowing on-line pressure to	esting	- A - A - A - A - A - A - A - A - A - A	
9. 🔲 ISI Flaw	ŃĎÉ We	thod of Flaw Detection		
		Report Number	·	
10. Evaluation of the su	itability of this work as pe	r the requirements of IAV	V-4150. Fañ Illa ranlagement as	nd is being replaced
No failure in the Albased upon pressur	SME III pressure boundare testing.	y. Spare valve is a like-	for-like replacement at	Id is being replaced
		The state of the s		
	W. C.		. £	
	t Work Organization AP			SIZE A DD
	construction or reconciled			
	Activity Construction Co			/5 ADD.
14. ASME Section XI Co	ode/Edition 1992 EDITIO	. • •		
15. Preservice Inspection		Q Y	* *	all an
DMG 06/03/0	2 If required, include	a step in the W.O. to pe	nom Preservice Inspe	cuon.
16. ASME Section XI Pr	ressure Test Required	, © Y	ES 🔲 NO	
DMG 06/03/0		a step in the W.O. for IS	& ANII Inspection.	
Initial Date DMG 06/03/0	2 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rel	easing the component.
Initial Date DMG 06/03/0	2 18. Include a step	in the W.O. to record bel	ow all applicable numb	ers for repaired or
Initial Date	replacement its	ems. SERIAL NO.	HEAT NO.	MR/ROS NO.
ITEM I.D. 1JSGEPSV0555	N/A	BS-08622	N/A	MK 689668
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	Company of the State of the Sta			
	New York		rate to	
~ ~	D 000		t	
19. Planner	M Signature A	Print N	lame DAVID GOOD!	LET
20. ISI Engineer	Bondas		lame RAMAKANT I	NDAP
20. 101 2 mg	Signature	Date	· · · · · · · · · · · · · · · · · · ·	STROM
21. ANII	Signature	Date Print	iame ROBERT HOG) I KOWI
PV-E0093 Ver. 6	<u> </u>	the second of th	to probability	730P-0ZZ17
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	ASME SECTION	ON XI - REPAIR/	REPLACEMENT	Page 2 of 8
1. Component ID 1JS0	GEPSV0556	2. Code C	lass ASME III, CLASS	32
3. Item Description Ma	AIN STEAM SAFETY V			
4. N-5 Package Number			ımber <u>2456294</u>	
	Code Edition ASME II	I CLASS 2, 1974 EDIT	ION, SUMMER 1975	ADDENDA
	Code Edition ASME III			
8. Work Description Re	eplacement of main steam	safety valve, with reco		
fo	llowing on-line pressure	testing		<u> </u>
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection		
			<u> </u>	
10. Evaluation of the su	itability of this work as pe	er the requirements of IA	W-4150.	diahalma menterad
No failure in the A based upon pressur	SME III pressure bounda	ry. Spare valve is a like	-tor-like replacement a	nd is being replaced
oased abou bressm	o would		•	
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	t Work Organization AP			
	Construction or reconciled			
13. Repair/Replacemen	t Activity Construction Co	de/Edition ASME III C	LASS 2, 1974 ED., W	75 ADD.
	ode/Edition 1992 EDITI			
15. Preservice Inspecti	on Required.	U "	YES - 🔟 NO	
DMG 06/03/0		a step in the W.O. to pe	erform Preservice Inspe	ction.
Initial Date		☑ Y	ES 🔲 NO	·
16. ASME Section XI P DMG 06/03/0		a step in the W.O. for IS	·	
Initial Date DMG 06/03/0		in the W.O. to complete		easing the component.
Initia! Date		in the W.O. to record be		
DMG 06/03/0	replacement it	ems.		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO. N/A	MR/ROS NO.
1JSGEPSV0556	N/A	BT-01672	N/A	1111- 661 663
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19. Planner Quan	Day Revold		Name DAVID GOODI	LET
GR	Signature	G-4-02 Print	Name RAMAKANT II	VIT) A P
20. ISI Engineer	Signature	Date	i irinaavia siisii	·
21. ANII 22	, <u> </u>		Name ROBERT HOGS	STROM
	(\Signature	Date		

	ASME SECTION	ON XI - REPAIR/I	REPLACEMENT	page 3 of 8
1. Component ID 1JS	GEPSV0560	2. Code Cl	ass ASME III, CLASS	S 2
-	ain steäm safety v	ALVE; DRESSER 370	7RA-RT25; 1290 PSIC	G
4. N-5 Package Number	er <u>1SG02-6</u>	5. W.O. Nu	mber <u>2456294</u>	
6. Original Construction	n Code Edition ASME II	I CLASS 2, 1974 EDIT	ION, SUMMER 1975 A	ADDENDA
7. Original Installation	Code Edition ASME III (CLASS 2, 1974 EDITIO	N, WINTER 1975 AD	DENDA
	eplacement of main steam		nditioned spare, per Eng	gineering direction
<u>10</u>	llowing on-line pressure t	esung.		
· —				
9. 🔲 ISI Flaw	NDE Me	ethod of Flaw Detection		
	er er er	Report Number :	•	
	uitability of this work as pe SME III pressure boundar			nd is being replaced
based upon pressu		ry. Spare valve is a like		iu is being replaced
		, m, , , , , , , , , , , , , , , , , ,		
	nt Work Organization AP		7. CT A CC O 1074 PD	CIGS ADD
	Construction or reconciled		•	
•	t Activity Construction Co			/5 ADD.
14. ASME Section XI C	ode/Edition 1992 EDITI	ON AND 1992 ADDEN	i,	
15. Preservice Inspecti		•	ES NO	
DMG 06/03/0	22 If required, include	a step in the W.O. to pe	rform Preservice Inspe -	ction.
16. ASME Section XI P.	ressure Test Required	☑ Y	ES 🔲 NO	·
DMG 06/03/0	22 If required, include	a step in the W.O. for IS	& ANII Inspection.	
Initial	2 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	easing the component.
Initial Date DMG 06/03/0)2 18. Include a step i	in the W.O. to record be	low all applicable numb	ers for repaired or
Initial Date	replacement ite	ems.		MR/ROS NO.
ITEM I.D. 1JSGEPSV0560	PART NO. N/A	SERIAL NO. BT-01670	HEAT NO. N/A	MR# 689669 A
1150EP5 VU300	,	B1.01070		
				
		A STATE OF S		
•				
12.51	Drd Profit	6-4-02 Print 1	Name DAVID GOODE	ET
19. Planner	Signature	Date		•
20. ISI Engineer	Signature	6-4-02 Print !	Name <u>RAMAKANT IN</u>	NDAP
21. ANII 24	by three	and the first state of the stat	Name ROBERT HOGS	STROM
An I + FRESH	Signature	Date		
PV-E0093 Ver. 6				730P-8ZZ17

	ASME SECTION	ON XI - REPAIR/	REPLACEMENT	page 4 of 8
1. Component ID 1JS	GEPSV0561	2. Code Cl	ass ASME III, CLAS	S 2
	ain steam safety v	ALVE; DRESSER 370	7RA-RT25; 1250 PSI	G
4. N-5 Package Numb	er <u>1SG02-6</u>	5. W.O. Nu	mber <u>2456294</u>	
6. Original Construction	n Code Edition ASME II	I CLASS 2, 1974 EDIT	ON, SUMMER 1975	ADDENDA
	Code Edition ASME III	and the second s	•	
8. Work Description R	eplacement of main steam	safety valve, with recor	nditioned spare, per En	gineering direction
fo	llowing on-line pressure	testing.	<u></u>	

9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection	·	
		Report Number		
	itability of this work as pe			
No failure in the A	SME III pressure bounda	ry. Spare valve is a like	-tor-like replacement a	na is being replaced
00000 10001 01001		un i un unit, desir	and agree of the same	
			4.	
	nt Work Organization - AP			
V	Construction or reconciled			
13. Repair/Replacemen	t Activity Construction Co	de/Edition ASME III C	LASS 2, 1974 ED., W	75 ADD.
14. ASME Section XI C	ode/Edition 1992 EDITI	ON AND 1992 ADDEN	TÒA	
15. Preservice Inspecti	on Required.	□ Y	res - 🗹 no	
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16. ASME Section XI P	ressure Test Required	. ☑ Y	ES 🔲 NO	
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Initial Date DMG 06/03/0	•	in the W.O. to complete		easing the component.
Initial Date	- company	in the W.O. to record be	· · ·	
DMG 06/03/0	replacement it		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1JSGEPSV0561	N/A	BS-08618	N/A	MR# 689672
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	:	1 11		
	• •	· · · · · · · · · · · · · · · · · · ·		
				
	121 1.11	1-4-12	Name DAVID GOODI	יייי
19. Planner	Signature	Date	Name DAVID GOOD!	
20. ISI Engineer	Phodap		Name <u>RAMAKANT II</u>	NDAP
	Signature J		Name ROBERT HOGS	STROM
21. ANII	Signature	Date	Author Acoppart 1100	
PV-E0093 Ver. 6		a sala	in the finding file and and the finding	730P-92Z17

	ASME SECT	ION XI - REPAIR/	REPLACEMEN	IT gage 5 of 8
1. Component ID 1J	SGEPSV0576	2. Code C	class <u>ASME III, CLA</u>	SS 2
3. Item Description $\underline{\mathbf{N}}$	IAIN STEAM SAFETY	VALVE; DRESSER 370	07RA-RT25; 1315 PS	SIG
4. N-5 Package Numb	per 1SG01-6	5. W.O. N	umber 2456294	
6. Original Construction	on Code Edition ASME	III CLASS 2, 1974 EĎIT	ION, SUMMER 1975	S ADDENDA
	Code Edition ASME III			
, -	Replacement of main steam	•	•	
· · ·	ollowing on-line pressure			
			• • • •	
9. 🔲 ISI Flaw	NDE M	fethod of Flaw Detection		· · · · · · · · · · · · · · · · · · ·
9. 🚅 ISI FIRW		Report Number		• • • • • • • • • • • • • • • • • • • •
10 Evaluation of the s	uitability of this work as p	· 	J== 14 *++	
	ASME III pressure bound	•		and is being replaced
based upon pressu	ire testing.	f		
	<i>y</i> * • •		i Transporter i Sangaran i Sangar Anna ang ang ang ang ang ang ang ang ang	
44 Daniel Danie anna	-4 144 O	PC		······································
•	nt Work Organization Al		T. GT. A'GG 0. 10G4 ED	CIEC ADD
•	Construction or reconcile		, 1	
	nt Activity Construction Co			7'75 ADD.
14. ASME Section XI C	Code/Edition 1992 EDIT	ION AND 1992 ADDEN	IDA '	
15. Preservice Inspect	ion Required.	Q Y	ES - 🗹 NO)
DMG 06/03/		e a step in the W.O. to pe	erform Preservice Insp	ection.
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16. ASME Section XI P DMG 06/03/		a step in the W.O, for IS	•	,
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DMG 06/03/		in the W.O. to complete	a de	
DMG 06/03/	02 18. Include à step replacement it	in the W.O. to record be	low all applicable num	bers for repaired or
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1JSGEPSV0576	N/A	BS-08634	N/A	MR# 689654
	. :			
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	,		1,1	
•				
19. Planner	py / forther		lame DAVID GOOD	LET
20. ISI Engineer	Signature Product		lame <u>RAMAKANT I</u>	NDAP
	Signature	Date	i di dis	
21. ANII	Signature .	Date Print N	lame ROBERT HOG	SIKUM

	ASME SECT	ION XI - REPAIR/	REPLACEMENT	pege6 of 8
1. Component ID 1JS	GEPSV0577	2. Code C	lass ASME III, CLASS	3 2
		VALVE; DRESSER 370	7RA-RT25; 1315 PSIC	}
4. N-5 Package Number	er <u>1SG01-6</u>	5. W.O. Ni	mber <u>2456294</u>	
6. Original Construction	Code Edition ASME	III CLASS 2, 1974 EDIT	ION, SUMMER 1975 A	ADDENDA
7. Original Installation	Code Edition ASME II	CLASS 2, 1974 EDITIC	ON, WINTER 1975 AD	DENDA
		m safety valve, with reco	nditioned spare, per Eng	gineering direction
<u>_fo</u>	llowing on-line pressure			
9. 🔲 ISI Flaw	NDE N	Method of Flaw Detection	-	1-,
		Report Number	. *	
		per the requirements of IA		ed is being replaced
based upon pressur		lary. Spare valve is a like	-101-like replacement at	id is being replaced
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11. Repair/Replacemen		•	T GT 4 GG 6 10G 4 FID	GIAC ADD
•		d Code/Edition ASME I		
		ode/Edition ASME III C	•• •	75 ADD.
14. ASME Section XI Co	ode/Edition 1992 EDIT	TON AND 1992 ADDEN	plant and a second	
15. Preservice Inspecti	•	- .	res No	
DMG 06/03/0	2 If required, includ	e a step in the W.O. to pe	erform Preservice Inspe	ction.
16. ASME Section XI Pr	ressure Test Required	☑ Y	ES 🔲 NO	
DMG 06/03/0	2 If required, include	e a step in the W.O. for IS	I & ANII Inspection.	
Initial Date DMG 06/03/0		o in the W.O. to complete		
Initial Date DMG 06/03/0		in the W.O. to record be	low all applicable numb	ers for repaired or
Initial Date	replacement PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ITEM I.D. 1JSGEPSV0577	N/A	BS-08608	N/A	MR 689657
		i.		
			· · · · · · · · · · · · · · · · · · ·	
			, 812 · · ·	
	<u>:</u> :		·	
			adi -	
19. Planner Luc	In Revolt	6-4-02 Print 1	vame DAVID GOODL	ET
19. Flatifier Results	Signature	Date		
20. ISI Engineer	Signature (Name RAMAKANT IN	IDAP .
21. ANII	& Lotion	۲-4-02 Print I	Name ROBERT HOGS	TROM
	Signature	Date		730P-8ZZ17
PV-E0093 Ver. 6			and the state of t	

	ASME SECTI	ON XI - REPAIR/	REPLACEMEN	IT page 7 of 8
1. Component ID 1JS	GEPSV0578	2. Code C	lass ASME III, CLA	SS 2
	AIN STEAM SAFETY V	VALVE; DRESSER 370	77RA-RT25; 1290 PS	iG
4. N-5 Package Numb	er <u>1SG01-6</u>	5. W.O. Nu	ımber <u>2456294</u>	
6. Original Construction	n Code Edition ASME I	II CLASS 2, 1974 EDIT	ION, SUMMER 1975	ADDENDA
7. Original Installation	Code Edition ASME III	CLASS 2, 1974 EDITIO	ON, WINTER 1975 A	DDENDA
	eplacement of main stear		nditioned spare, per E	ngineering direction
<u>_fc</u>	ollowing on-line pressure	testing.		
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection		
	•	Report Number		·
	uitability of this work as po			
No failure in the A based upon pressu	SME III pressure boundare testing	iry. Spare valve is a like	-for-like replacement	and is being replaced
			· · · · · · · · · · · · · · · · · · ·	
	nt Work Organization Al			
	Construction or reconciled			
•	nt Activity Construction Co		t .	775 ADD.
14. ASME Section XI C	ode/Edition 1992 EDIT	ON AND 1992 ADDEN	IDA	
15. Preservice Inspect	ion Required.	□ Y	ES - 🔟 NO)
DMG 06/03/	02 If required, include	e a step in the W.O. to pe	erform Preservice Insp	ection.
16. ASME Section XI P	ressure Test Required	. ⊡ Y	ES 🔲 NO	o
DMG 06/03/	* •	a step in the W.O. for IS		
Initial Date DMG 06/03/		• • • • • • • • • • • • • • • • • • • •		eleasing the component.
Initial Date DMG 06/03/0		in the W.O. to record be		
Initial Date				
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1JSGEPSV0578	N/A	BS-08573	N/A	MR# 689666
<u> </u>			·	
	. ::			
			1.1.1	
	,	·		
	A 10		<u></u>	
19. Planner	Signature Signature	6-4-02 Print 1	vame <u>DAVID GOOD</u>	LET
20. ISI Engineer	Phodes	•	Name RAMAKANT	INDAP
	Signature . J		DOPERT HOC	2CTD ()M
21. ANII	Grature :	Oate Print	Name ROBERT HOO	191 KOM
PV-E0093 Ver. 6			en James	73DP-92Z17

	ASME SECT	ION XI - REPAIR	REPLACEMEN'	T P-8-98
1. Component ID 1JSC	GEPSV0691	2. Code 0	class ASME III, CLAS	SS 2
3. Item Description MA	AIN STEAM SAFETY	VALVE; DRESSER 37	07RA-RT25; 1315 PS	IG
4. N-5 Package Numbe	r <u>1SG01-6</u>	5. W.O. N	umber <u>2456294</u>	
6. Original Construction	Code Edition ASME	III CLASS 2, 1974 EDIT	TON, SUMMER 1975	ADDENDA
7. Original Installation C	Code Edition ASME II	I CLASS 2, 1974 EDITIO	ON, WINTER 1975 AI	DDENDA
		um safety valve, with reco	onditioned spare, per Er	ngineering direction
101	lowing on-line pressur	e tesung.		
9. 🔲 ISI Flaw	NDE I	Method of Flaw Detection		
		Report Number	•	
	•	per the requirements of IA		and is bains analosed
based upon pressure		lary. Spare valve is a like	; ::	and is being replaced
			. 1 ~ -	
	<u> </u>		- 	
11. Repair/Replacement	· -			
		ed Code/Edition ASME I		
, ,		Code/Edition ASME III C		75 ADD.
14. ASME Section XI Co	de/Edition 1992 EDIT	TION AND 1992 ADDEN	NDA	
15. Preservice Inspection			YES - 🗹 NO	
DMG 06/03/02	If required, include	le a step in the W.O. to pe	erform Preservice Inspe	ection.
16. ASME Section XI Pre	essure Test Required	2 1	res . 🛄 no	
DMG 06/03/02	2 If required, include	e a step in the W.O. for IS	SI & ANII Inspection.	
Initial Date DMG 06/03/02	2 17. Include a step	o in the W.O. to complete	NIS-2 Form prior to rel	leasing the component.
Initial Date DMG 06/03/02	2 18. Include a stej	o in the W.O. to record be	elow all applicable numb	bers for repaired or
Initial Date	replacement	items.	· · · · · · · · · · · · · · · · · · ·	
ITEM I.D. 1JSGEPSV0691	PART NO. N/A	SERIAL NO. BS-08587	HEAT NO.	MR# 689665
1350213 10091	1021	10-00307	1,1,1	- M - 007203
			ļ	
	· · · · · · · · · · · · · · · · · · ·			
12.2	las Dellet	6-4-02 Print	Name DAVID GOOD	rer
19. Planner Bland	Signature	Date	Name DAVID GOOD	CE1
20. ISI Engineer	Pfordup		Name <u>RAMAKANT II</u>	NDAP .
21. ANII	Signature :		Name <u>ROBERT HOGS</u>	STROM
CI. MINII TX	Signature	Date	Tanio RODERT HOOF	V

FORM	NIS-2 OWNEL As Required b	R'S REPOF by the Provision	RT FOR	REPAIRS ASME Code	OR Sec	REPLACE tion XI	MENTS
1. Owner <u>Arizona</u>]	Public Service Cor	npany, et. al.	**************************************	Date		07/10/02	
P.O. Box	53999, Phoenix, A	ame Arizona 85072	-2034	Sheet	1	of	3
2. Plant Palo Ver	de Nuclear Genera	ting Station		Unit		1	
5801 S. V	Wintersburg Rd., T	_{onopah,} Arizo	ma 85354-	7529	Ţ	WO# 2456294 Work Order Number	·
			•				
3. Work Performed by	PVNGS Mainter	nance Dept.		Type Co			None
		_ , , ,	.co.c.4 .co.c			o. <u>N/</u>	
5801 S. Y	Wintersburg Rd., 7	Conopah, Az. 8	55354-7529	Expiratio	n Date	18/2	<u>, </u>
4. Identification of Sy	stem SG - Main	Steam		· · · · · · · · · · · · · · · · · · ·			
5 (a) Applicable Cor	nstruction Code ASM	IE III Class 2	1974	Edition, S'75	Adde	enda, <u>1711</u>	Code Case
	tion of Section XI Utiliz						
(D) Applicable Edi	HOLLOF SECTION VE OF HIS	ou ioi i iopano di	· implication	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	• ==		
6. Identification of Co	mponents Repaired or	r Replaced and R	eplacement (Components		·	1014-0
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-08622	N/A	SGEPSV0555	1981	Replacement	Yes
Safety Valve	Dresser	BT-01672	N/A	SGEPSV0556	1979	Replacement	Yes
Safety Valve	Dresser	BT-01670	N/A	SGEPSV0560	1979	Replacement	Yes
Safety Valve	Dresser .	BS-08618	N/A	SGEPSV0561	1981	Replacement	Yes
Safety Valve	Dresser	BS-08634	N/A	SGEPSV0576	1981	Replacement	Yes
Safety Valve	Dresser	BS-08608	N/A	SGEPSV0577	1980	Replacement	Yes
Safety Valve	Dresser	BS-08573	N/A	SGEPSV0578	1978	Replacement	Yes
	rk Replace main st						
8. Test Conducted:	Hydrostatic	Pneumatic 🗔 . »	Nominal Op	erating Pressure		Exempt 🔲	N-416-1 🔲
	Other	Pressure	psi		Test T	emp	_°F
	·			Es .			
(2) information in i	ntal sheets in form o items 1 through 6 on ets is recorded at th	ithis report is in	cluded on e	s may be used ach sheet, and	, provi I (3) ea	ided (1) size is 8 ach sheet is nun	3 1/2 x 11 in., nbered and

73DP-9ZZ17

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 ______07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 2 of 3 _____ Unit ___ 2. Plant Palo Verde Nuclear Generating Station 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 None Type Code Symbol Stamp 3. Work Performed by PVNGS Maintenance Dept. N/A Authorization No. 5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A SG - Main Steam 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 2 19.74 Edition, S'75 Addenda, 1711 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 **ASME Code** Repaired Year Manufacturer National Other Name of Name of Stamped or Board No. Identification Built Serial No. Manufacturer (Yes or No) Replacement Item Yes SGEPSV0691 Replacement . N/A BS-08587 Safety Valve Dresser 7. Description of Work Replace main steam safety valves with reconditioned and tested spares. N-416-1 Exempt Pneumatic Nominal Operating Pressure 8. Test Conducted: Hydrostatic Test Temp.

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)

		77, 578 & 69		cement of valves we		d by ma		ngineeri	ng.
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			ъ р.			* . *			
		С	ERTIFIC	ATE OF	COMP	LIANC	E		
	tify that the sta		le in the re	port are co	orrect and		placement air or replacemen		ms to the rules
Ty p e C	ode Symbol S	tamp	N/.	A			·		
Certifica	ate of Authoriz	zation No	N/2	A	• •	E	Expiration D	ate	N/A
Signed	Parad	DAP CON	nsulting	o Meta Designee, Title	alluro	Youte	EN INCORDE	ate <u>Jo-</u>	29-2002
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		V			· ·	• •	· • · · · · · · · · · · · · · · · · · ·	 	· · · · · · · · · · · · · · · · · · ·
		V			•				
		CERTIF	ICATE O	OF INSE	RVICE	INSPE	CTION		
		CERTIF	TCATE C	OF INSE	RVICE	INSPE	CTION		
		olding a valid c	commissior	ı issued b	y the Nat	ional Bo	ard of Boile		essure Vessel
Inspecto	ndersigned, ho ors and the Startford, Conn	olding a valid o	commission e of <u>Ariz</u>	n issued by zona an	y the Nat d employ	ional Bo red by _	ard of Boile HS	B CT	
Inspector of <u>Harantee</u>	ors and the Startford, Connot	olding a valid of ate or Province tecticut to the section to the s	commission e of <u>Ariz</u> ave inspec	issued by zona and ted the co	y the Nat d employ mponent , and s	ional Bo red by _ s descri tate that	ard of Boile HS bed in this C	B CT Owner's of my ki	Report during nowledge and
Inspector of <u>Hi</u> the period belief, the	ors and the Startford, Connododododod-	olding a valid of ate or Province tecticut to performed ex	commission e of <u>Ariz</u> ave inspec	issued by zona and ted the co	y the Nat d employ mponent , and s n correcti	ional Bo red by _ s descri tate that	ard of Boile HS bed in this C to the best sures descri	B CT Owner's of my ki	Report during nowledge and
Inspector of <u>Hi</u> the period belief, the	ors and the Startford, Connot	olding a valid of ate or Province tecticut to performed ex	commission e of <u>Ariz</u> ave inspec	issued by zona and ted the co	y the Nat d employ mponent , and s n correcti	ional Bo red by _ s descri tate that	ard of Boile HS bed in this C to the best sures descri	B CT Owner's of my ki	Report during nowledge and
Inspecto of His the period belief, th Report i By signi concern	ors and the Startford, Connododod ne Owner has n accordance	olding a valid of ate or Province tecticut to performed ex with the requirate, neither the nations and contents.	commission e of Ariz ave inspec to -29 caminations irements of	n issued by zona and ted the constant takes and takes from the ASM r nor his endowned the asures described by zona and takes from the ASM r nor his endowned the asures described by zona and takes from the ASM r nor his endowned the asures described by zona and zon	y the Nat d employ emponent , and s n correcti E Code, s employer lescribed	ional Bo red by _ is descri- tate that ive meas Section makes a in this C	ard of Boile HS bed in this C to the best sures descri XI. any warrant	Dwner's of my ki ibed in the y, express	Report during nowledge and his Owner's ssed or implied thermore,
Inspector of History the period belief, the Report in By significancement of the significance of the signi	ors and the Startford, Connotone Owner has n accordance ing this certificing the examination	elding a valid of ate or Province tecticut has been been been been been been been bee	commission e of Ariz ave inspec to -24 aminations irements of the inspecto orrective mayer shall be	n issued by zona and ted the constant take and take if the ASM representations of the assures declaration in a second constant take the assures declaration and take	y the Nat d employ emponent , and s n correct E Code, employer lescribed any manr	ional Bo yed by _ is descri- tate that ive meas Section makes a in this C	bed in this Control to the best sures described. The sures described in the best sures described in this Control to the best sures described in the best sures described	Dwner's of my ki ibed in the y, express	Report during nowledge and his Owner's ssed or implied thermore,
Inspector of History the period belief, the Report in By significancement of the significance of the signi	artford, Connotone Owner has n accordance ng this certific ing the examinate Inspector r	elding a valid of ate or Province tecticut to performed exwith the requirate, neither the nations and conor his employing kind arising	commission e of <u>Ariz</u> ave inspec to -24 aminations irements of the Inspecto corrective mayer shall be g from or co	n issued by zona and take and take f the ASM are nor his eleasures de liable in a connected and zonnected and zonn	y the Nat d employ emponent , and s n correct E Code, employer described any manr with this	ional Bo yed by _ s descri- tate that ive meas Section : makes a in this C ner for a inspection	bed in this Course description Any warrant Owner's Report ny personal on.	B CT Dwner's of my ki ibed in the y, express oort. Fui injury of	Report during nowledge and his Owner's ssed or implied thermore, r property
Inspector of History the period belief, the Report in By significancement of the significance of the signi	artford, Connotone Owner has n accordance ng this certific ing the examinate Inspector r	elding a valid of ate or Province tecticut has been been been been been been been bee	commission e of <u>Ariz</u> ave inspec to -24 aminations irements of the Inspecto corrective mayer shall be g from or co	n issued by zona and take and take f the ASM are nor his eleasures de liable in a connected and zonnected and zonn	y the Nat d employ emponent , and s n correct E Code, employer described any manr with this	ional Bo yed by _ s descri- tate that ive meas Section : makes a in this C ner for a inspection	bed in this Control to the best sures described any warranty Dwner's Repny personal on.	B CT Dwner's of my ki ibed in the y, express oort. Fui injury of	Report during nowledge and his Owner's ssed or implied thermore, r property

73DP-92Z17

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 1M	RCEE01A	2. Code C	class ASME SECTION	Ш, 1			
3. Item Description S	TEAM GENERATOR #	· · · · · · · · · · · · · · · · · · ·					
4. N-5 Package Numb	per <u>1RC01-4</u>	5. W.O. N	umber <u>2458019</u>				
6. Original Construction	on Code Edition 1971 EI	DITION & 1973 WINTE	R ADDENDA				
7. Original Installation	Code Edition 1974 EDI	TION & 1975 WINTER	ADDENDA	***			
	NSTALL WESTINGHO NG-DFWO 2457999 EV		MRCEE01A HOT LEG	TUBES			
· ·	110-D1 WO 2451999 EV	ADDATION AND DIST	· · · · · · · · · · · · · · · · · · ·				
_			PDDV CUDDENT				
9. 🛛 ISI Flaw	NDE N	fethod of Flaw Detection		EVAM DEDODT			
10 Evaluation of the s	uitability of this work as p	•	R10 EDDY CURRENT I	EXAM REPORT			
	ER ENG-DFWO 245799	•					
•							
11. Repair/Replaceme	nt Work Organization <u>W</u>	ESTINGHOUSE					
12. Replacement Item	Construction or reconcile	d Code/Edition 1971 ED	ITION & 1973 WINTER	R ADDENDA			
13. Repair/Replacemen	nt Activity Construction C	ode/Edition 1974 EDITI	ON & 1975 WINTER A	DDENDA			
14. ASME Section XI C	Code/Edition 1992 EDIT	ION & 1992 ADDENDA	1				
15. Preservice Inspect	ion Required.	Q Y	res 🗹 no				
Mon 06/24/	02 If required, include	e a step in the W.O. to pe	erform Preservice Inspect	tion.			
16. ASME Section XI P	ressure Test Required	□ Y	es 🗹 no				
MSN . 06/24/	· · · · · · · · · · · · · · · · · · ·	a step in the W.O. for IS					
initial Date 06/24/	02 17. Include a step	in the W.O. to complete	NIS-2 Form prior to relea	asing the component.			
Initial Date 06/24/			low all applicable numbe	rs for repaired or			
Initial Date	replacement it	serial No.	HEAT NO.	MR/ROS NO.			
ITEM I.D. TUBE PLUGS			SEE ATTACHED LIST	<u> </u>			
	•						
			·				
10 81-1-1	08-71	06/24/02 Print N	Name MICHAEL B. NE	WELL			
19. Planner W	Signature	Date					
20. ISI Engineer U	Signeture	8/20/02 Print N	Name <u>Alan M</u>	orrow			
21. ANII 25	& Latin	8-20-02 Print N	Name ROBERT HOGST	ROM			
	Signature	Date		730P-9ZZ17			
PV-E0093 Vec. 8	~			/301-4221/			

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona</u>		Date		08	3/20/22				
P.O. Box									
2. Plant Palo Ver	de Nuclear Genera	ating Station			Unit			1	
	5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529								
		ouress .							
3. Work Performed b		Type Code Symbol Stamp None							
					Authoriz				
911 W N	AAIN ST CHATT.	ANOOGA TN	37402		Expiration	n Date		N/.	<u>A</u>
4. Identification of Sy	stem REACTO	R COOLANT							
5 (a) Applicable Col	nstruction Code <u>ASM</u>	Æ SEC III CI	1 19 <i>7</i> 1 I	Edition.	W:73	Adde	ında. N	N/A	Code Case
	tion of Section XI Utiliz	•							
(b) Applicable Eul	tion of Section At Othiz	zed for nepalls of	Replacemen	113 13	<u> </u>		1992		io d
6. Identification of Co	mponents Repaired o	r Replaced and R	epiacement (Compo	nents				
Name of	Name of	Manufacturer	National	0	ther	Year		aired or	ASME Code Stamped
ltem	Manufacturer	Serial No.	Board No.	Ident	ification	Built	Repla	cement	Stamped (Yes or No)
S/G	CE	78273-1	22499	1MR	CEE01A	1978	Replac	cement	Yes
								<u> </u>	
		· · · · · · · · · · · · · · · · · · ·							00
7. Description of Wor	7. Description of Work PLUG STEAM GENERATOR 11 HOT LEG TUBES PER DFWO 2457999								
8. Test Conducted:	Hydrostatic P	neumatic 🔲	Nominal Ope	erating	Pressure	Q	Exemp	ot 🗹	N-416-1 🔲
	Other 🛄	Pressure	psi		•	Test Te	emp		_°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)
Remarks	SEE DFWO 2457999 FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).
	CERTIFICATE OF COMPLIANCE
	ify that the statements made in the report are correct and this replacement conforms to the rules SME Code, Section XI.
Type.C	ode Symbol StampN/A
Certific	ate of Authorization No. N/A Expiration Date N/A
Signed	DGH- Se Consucting ENER Date 10-22-02 Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesselers and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u>
of <u>H</u> the peri- belief, the	artford, Connecticut , have inspected the components described in this Owner's Report during od 8-20-02 to 10-25-02 , and state that to the best of my knowledge and ne Owner has performed examinations and taken corrective measures described in this Owner's naccordance with the requirements of the ASME Code, Section XI.
concern neither	ng this certificate, neither the Inspector nor his employer makes any warranty, expressed or implieing the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
	Commissions No. 1685 "ANIC" Az. 264 Inspector's Signature Commissions National Board, State, Province, and Endorsements
Date_	10-25-02

DFWO 2457999

STEAM GENERATOR 1MRCEE01A "HOT LEG"

ASME SECTION XI-REPAIR/REPLACEMENT								
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.		
1MRCEE01A	8	1	0307-1601	40010925-2	JG92	691280		
1MRCEE01A	6	9	0307-1601	40010925-18	JG92	691280		
1MRCEE01A	65	12	0307-1601	40010925-25 ,	JG92	691280		
1MRCEE01A	67	12	0307-1601	40010925-29	JG92	691280		
1MRCEE01A	28	13	0307-1601	40010925-13	JG92	691280		
1MRCEE01A	64	13	0307-1601	40010925-33	JG92	691280		
1MRCEE01A	66	13	0307-1601	40010925-24	JG92	691280		
1MRCEE01A	65	14	0307-1601	40010925-37	JG92	691280		
1MRCEE01A	82	15	0307-1601	40010925-47	JG92	691280		
1MRCEE01A	81	16	0307-1601	40010925-45	JG92	691280		
1MRCEE01A	83	16	0307-1601	40010925-42	JG92	691280		
1MRCEE01A	80	17	0307-1601	40010925-40	JG92	691280		
1MRCEE01A	82	17	0307-1601	40010925-43	JG92	691280		
1MRCEE01A	84	17	0307-1601	40010925-46	JG92	691280		
1MRCEE01A	79	18	0307-1601	40010925-48	JG92	691280		
1MRCEE01A	81	18	0307-1601	40010925-32	JG92	691280		
1MRCEE01A	83	18	0307-1601	40010925-27	JG92	691280		
1MRCEE01A	80	19	0307-1601	40010925-38	JG92	691280		
1MRCEE01A	75	20	0307-1601	40010925-14	JG92	691280		
1MRCEE01A	66	23	0307-1601	40010925-23	JG92	691280		
1MRCEE01A	90	23	0307-1601	40010925-28	JG92	691280		
1MRCEE01A	53	24	0307-1601	40010925-6	JG92	691280		
1MRCEE01A	82	25	0307-1601	40010925-49	JG92	691280		
1MRCEE01A	59	26	0307-1601	40010925-8	JG92	691280		
1MRCEE01A	69	26	0307-1601	40010925-17	JG92	691280		
1MRCEE01A	81	26	0307-1601	40010925-44	JG92	691280		
1MRCEE01A	72	27	0307-1601	40010925-19	JG92	691280		
1MRCEE01A	37	28	0307-1601	40010925-39	JG92	691280		
1MRCEE01A	65	28	0307-1601	40010925-1	JG92	691280		
1MRCEE01A	93	28	0307-1601	40010925-54	JG92	691280		
1MRCEE01A	90	29	0307-1601	40010925-26	JG92	691280		
1MRCEE01A	58	31	0307-1601	40010925-16	JG92	691280		
1MRCEE01A	62	31	0307-1601	40010925-12	JG92	691280		
1MRCEE01A	59	32	0307-1601	40010925-3	JG92	691280		
1MRCEE01A	76	33	0307-1601	40010925-20	JG92	691280		
1MRCEE01A	67	34	0307-1601	40010925-5	JG92	691280		
1MRCEE01A	60	37	0307-1601	40010925-11	JG92	691280		
1MRCEE01A	67	38	0307-1601	40010925-36	JG92	691280		
1MRCEE01A	63	42	0307-1601	40010925-34	JG92	691280		
1MRCEE01A	91	42	0307-1601	40010925-56	JG92	691280		
1MRCEE01A	66	43	0307-1601	40010925-22	JG92	691280		
1MRCEE01A	67	44	0307-1601	40010925-35	JG92	691280		
1MRCEE01A	71	44	0307-1601	40010925-31	JG92	691280		
1MRCEE01A	129	44	0307-1601	40010925-55	JG92	691280		
1MRCEE01A	55	46	0307-1601	40010925-41	JG92	691280		
1MRCEE01A	37	48	0307-1601	40011047-107	NX2227HK	691280		
1MRCEE01A	83	48	0307-1601	40010925-57	. JG92	691280		
1MRCEE01A	119	48	0307-1601	40010925-64	JG92	691280		
1MRCEE01A	17	50	0307-1601	40011047-100	NX2227HK	691280		

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1MRCEE01A	109	50	0307-1601	40010925-62	JG92	691280
1MRCEE01A	40	53	0307-1601	40011047-102	NX2227HK	691280
1MRCEE01A	54	53	0307-1601	40011047-101	NX2227HK	691280
1MRCEE01A	84	53	0307-1601	40010925-30	JG92	691280
1MRCEE01A	88	53	0307-1601	40010925-59	JG92	691280
1MRCEE01A	90	53	0307-1601	40010925-60	JG92	691280
1MRCEE01A	58	55	0307-1601	40010325-00	NX2227HK	691280
1MRCEE01A	82	55	0307-1601	40010925-58	JG92	691280
1MRCEE01A	90	55	0307-1601	40010925-52	JG92	691280
1MRCEE01A	119	56	0307-1601	40010925-51	JG92	691280
1MRCEE01A	118	57	0307-1601	40010925-169	JG92	691280
1MRCEE01A	111	58	0307-1601	40010925-178	JG92	691280
		59			JG92 JG92	691280
1MRCEE01A	10 42	59	0307-1601	40010925-10		
1MRCEE01A			0307-1601	40011047-144	NX2227HK	691280
1MRCEE01A	67	60	0307-1601	40011047-91	NX2227HK	691280
1MRCEE01A	24	61	0307-1601	40011047-97	NX2227HK	691280
1MRCEE01A	40	61	0307-1601	40011047-200	NX2227HK	691280
1MRCEE01A	35	62	0307-1601	40011047-197	NX2227HK	691280
1MRCEE01A	39	62	0307-1601	40011047-106	NX2227HK	691280
1MRCEE01A	103	62	0307-1601	40010925-66	JG92	691280
1MRCEE01A	111	62	0307-1601	40010925-67	JG92	691280
1MRCEE01A	125	62	0307-1601	40010925-186	JG92	691280
1MRCEE01A	4	63	0307-1601	40010925-7	JG92	691280
1MRCEE01A	98	63	0307-1601	40010925-61	JG92	691280
1MRCEE01A	35	64	0307-1601	40011047-95	NX2227HK	691280
1MRCEE01A	89	64	0307-1601	40010925-72	JG92	691280
1MRCEE01A	40	65	0307-1601	40011047-98	NX2227HK	691280
1MRCEE01A	48	65	0307-1601	40011047-93	NX2227HK	691280
1MRCEE01A	140	65	0307-1601	40010925-177	JG92	691280
1MRCEE01A	37	66	0307-1601	40011047-198	NX2227HK	691280
1MRCEE01A	49	66	0307-1601	40011047-92	NX2227HK	691280
1MRCEE01A	65	66	0307-1601	40011047-105	NX2227HK	691280
1MRCEE01A	68	67	0307-1601	40010925-184	JG92	691280
1MRCEE01A	118	67	0307-1601	40010925-179	JG92	691280
1MRCEE01A	128	67	0307-1601	40010925-69	JG92	691280
1MRCEE01A	35	68	0307-1601	40011047-94	NX2227HK	691280
1MRCEE01A	41	68	0307-1601	40011047-89	NX2227HK	691280
1MRCEE01A	135	68	0307-1601	40010925-63	JG92	691280
1MRCEE01A	137	68	0307-1601	40010925-176	JG92	691280
1MRCEE01A	56	69	0307-1601	40010925-182	JG92	691280
1MRCEE01A	108	69	0307-1601	40010925-68	JG92	691280
1MRCEE01A	49	70	0307-1601	40010925-192	JG92	691280
1MRCEE01A	63	70	0307-1601	40010925-170	JG92	691280
1MRCEE01A	113	70	0307-1601	40010925-65	JG92	691280
1MRCEE01A	82	71	0307-1601	40010925-71	JG92	691280
1MRCEE01A	35	72	0307-1601	40011047-103	NX2227HK	691280
1MRCEE01A	51	72	0307-1601	40011047-96	NX2227HK	691280
1MRCEE01A	81	72	0307-1601	40010925-70	JG92	691280
1MRCEE01A	52	73	0307-1601	40011047-199	NX2227HK	691280
1MRCEE01A	128	73	0307-1601	40010925-189	JG92	691280
1MRCEE01A	105	74	0307-1601	40010925-50	JG92	691280

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1MRCEE01A	125	74	0307-1601	40010925-172	JG92	691280
1MRCEE01A	153	74	0307-1601	40010925-197	JG92	691280
1MRCEE01A	46	75	0307-1601	40011047-90	NX2227HK	691280
1MRCEE01A	52	75	0307-1601	40011047-196	NX2227HK	691280
1MRCEE01A	74	75	0307-1601	40011047-109	NX2227HK	691280
1MRCEE01A	96	75	0307-1601	40010925-53	JG92	691280
1MRCEE01A	146	75	0307-1601	40010925-175	JG92	691280
1MRCEE01A	51	76	0307-1601	40010925-82	JG92	691280
1MRCEE01A	59	76	0307-1601	40010925-93	JG92	691280
1MRCEE01A	61	76	0307-1601	40010925-79	JG92	691280
1MRCEE01A	38	77	0307-1601	40010925-86	JG92	691280
1MRCEE01A	58	77	0307-1601	40010925-90	JG92	691280
1MRCEE01A	68	77	0307-1601	40010925-89	JG92	691280
1MRCEE01A	132	77	0307-1601	40011047-145	NX2227HK	691280
1MRCEE01A	39	78	0307-1601	40010925-81	JG92	691280
1MRCEE01A	61	- 78	0307-1601	40010925-80	JG92	691280
1MRCEE01A	63	78	0307-1601	40010925-94	JG92	691280
1MRCEE01A	117	78	0307-1601	40010925-173	JG92	691280
1MRCEE01A	36	79	0307-1601	40010925-15	JG92	691280
1MRCEE01A	78	79	0307-1601	40010925-74	JG92	691280
1MRCEE01A	130	79	0307-1601	40010925-188	JG92	691280
1MRCEE01A	39	80	0307-1601	40010925-9	JG92	691280
1MRCEE01A	65	80	0307-1601	40010925-95	JG92	691280
1MRCEE01A	117	80	0307-1601	40010925-171	JG92	691280
1MRCEE01A	133	80	0307-1601	40010925-185	JG92	691280
1MRCEE01A	56	81	0307-1601	40010925-91	JG92	691280
1MRCEE01A	62	81	0307-1601	40010925-96	JG92	691280
1MRCEE01A	122	81	0307-1601	40010925-174	JG92	691280
1MRCEE01A	154	81	0307-1601	40010925-200	JG92	691280
1MRCEE01A	59	82	0307-1601	40010925-121	JG92	691280
1MRCEE01A	63	82	0307-1601	40010925-122	JG92	691280
1MRCEE01A	40	83	0307-1601	40010925-4	JG92	691280
1MRCEE01A	60	83	0307-1601	40010925-123	JG92	691280
1MRCEE01A	112	83	0307-1601	40010925-181	JG92	691280
1MRCEE01A	128	83	0307-1601	40010925-168	JG92	691280
1MRCEE01A	136	83	0307-1601	40010925-187	JG92	691280
1MRCEE01A	150	83	0307-1601	40010925-194	JG92	691280
1MRCEE01A	63	84	0307-1601	40010925-124	JG92	691280
1MRCEE01A	67	84	0307-1601	40010925-125	JG92	691280
1MRCEE01A	97	84	0307-1601	40010925-144	JG92	691280
1MRCEE01A	135	84	0307-1601	40010925-190	JG92	691280
1MRCEE01A	34	85	0307-1601	40010925-191	JG92	691280
1MRCEE01A	36	85	0307-1601	40010925-77	JG92	691280
1MRCEE01A	62	85	0307-1601	40010925-126	JG92	691280
1MRCEE01A	68	85	0307-1601	40010925-84	JG92	691280
1MRCEE01A	118	85	0307-1601	40011056-58	NX2227HK	691280
1MRCEE01A	140	85	0307-1601	40011056-59	NX2227HK	691280
1MRCEE01A	148	85	0307-1601	40010925-195	JG92	691280
1MRCEE01A	35	86	0307-1601	40010925-180	JG92	691280
1MRCEE01A	37	86	0307-1601	40010925-87	JG92	691280
1MRCEE01A	47	86	0307-1601	40010925-75	JG92	691280
THE TOTAL			,			

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1MRCEE01A		86	0307-1601	40010925-127	JG92	691280
1MRCEE01A	61	86	0307-1601	40010925-128	JG92	691280
1MRCEE01A	65	86	0307-1601	40010925-129	JG92	691280
1MRCEE01A	107	86	0307-1601	40010925-145	JG92	691280
1MRCEE01A	139	86	0307-1601	40010925-157	JG92	691280
1MRCEE01A	44	87	0307-1601	40010925-92	JG92	691280
1MRCEE01A	62	87	0307-1601	40010925-130	JG92	691280
1MRCEE01A	64	87	0307-1601	40010925-131	JG92	691280
1MRCEE01A	150	87	0307-1601	40010925-198	JG92	691280
1MRCEE01A	44	89	0307-1601	40010925-73	JG92	691280
1MRCEE01A	56	89	0307-1601	40010925-132	JG92	691280
1MRCEE01A	118	89	0307-1601	40010925-156	JG92	691280
1MRCEE01A	142	89	0307-1601	40010925-167	JG92	691280
1MRCEE01A	43	90	0307-1601	40010925-78	JG92	691280
1MRCEE01A	54	91	0307-1601	40010925-83	JG92	691280
1MRCEE01A	56	91	0307-1601	40010925-133	JG92	691280
1MRCEE01A	53	92	0307-1601	40010925-21	JG92	691280
1MRCEE01A	59	92	0307-1601	40010925-134	JG92	691280
1MRCEE01A	133	92	0307-1601	40010925-155	JG92	691280
1MRCEE01A	141	92	0307-1601	40010925-166	JG92	691280
1MRCEE01A	104	93	0307-1601	40010925-147	JG92	691280
1MRCEE01A	59	94	0307-1601	40010925-135	JG92	691280
1MRCEE01A	52	95	0307-1601	40010925-88	JG92	691280
1MRCEE01A	66	97	0307-1601	40011047-147	NX2227HK	691280
1MRCEE01A	68	97	0307-1601	40010925-137	JG92	691280
1MRCEE01A	125	98	0307-1601	40010925-154	JG92	691280
1MRCEE01A	145	98	0307-1601	40010925-153	JG92	691280
1MRCEE01A	91	100	0307-1601	40010925-146	JG92	691280
1MRCEE01A	66	101	0307-1601	40010925-138	JG92	691280
1MRCEE01A	65	102	0307-1601	40010925-139	JG92	691280
1MRCEE01A	137	102	0307-1601	40010925-152	JG92	691280
1MRCEE01A	144	103	0307-1601	40010925-165	JG92	691280
1MRCEE01A	67	104	0307-1601	40010925-140	JG92	691280
1MRCEE01A	119	104	0307-1601	40010925-164	JG92	691280
1MRCEE01A	124	105	0307-1601	40010925-163	JG92	. 691280
1MRCEE01A	63	106	0307-1601	40010925-141	JG92	691280
1MRCEE01A	137	106	0307-1601	40010925-162	JG92	691280
1MRCEE01A	112	107	0307-1601	40010925-151	JG92	691280
1MRCEE01A	132	107	0307-1601	40010925-150	JG92	691280
1MRCEE01A	41	108	0307-1601	40010925-76	JG92	691280
1MRCEE01A	49	108	0307-1601	40010925-85	JG92	691280
1MRCEE01A	121	108	0307-1601	40010925-161	JG92	691280
1MRCEE01A	129	108	0307-1601	40010925-160	JG92	691280
1MRCEE01A	149	108	0307-1601	40010925-149	JG92	691280
1MRCEE01A	147	110	0307-1601	40010925-148	JG92	691280
1MRCEE01A	64	111	0307-1601	40010925-142	JG92	691280
1MRCEE01A	132	113	0307-1601	40010925-159	JG92	691280
1MRCEE01A	140	113	0307-1601	40010925-158	JG92	691280
1MRCEE01A	71	114	0307-1601	40010925-143	JG92	691280
1MRCEE01A	148	115	0307-1601	40011056-53	NX2227HK	691280
1MRCEE01A	125	116	0307-1601	40011056-57	NX2227HK	691280
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IMRCEE01A 122 117 0307-1601 40011047-116 NX2227HK 691280 IMRCEE01A 140 121 0307-1601 40011056-52 NX2227HK 691280 IMRCEE01A 135 122 0307-1601 40010925-193 JG92 691280 IMRCEE01A 130 123 0307-1601 40010925-193 JG92 691280 IMRCEE01A 130 123 0307-1601 40011047-122 NX2227HK 691280 IMRCEE01A 103 124 0307-1601 40011047-122 NX2227HK 691280 IMRCEE01A 103 124 0307-1601 40011047-114 NX2227HK 691280 IMRCEE01A 128 128 0307-1601 40011047-137 NX2227HK 691280 IMRCEE01A 128 0307-1601 40011047-137 NX2227HK 691280 IMRCEE01A 128 0307-1601 40011047-137 NX2227HK 691280 IMRCEE01A 94 133 0307-1601 40011047-137 NX2227HK 691280 IMRCEE01A 145 134 0307-1601 40011047-139 JG92 691280 IMRCEE01A 125 134 0307-1601 40011055-56 NX2227HK 691280 IMRCEE01A 135 0307-1601 40011047-140 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 15 138 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 109 138 0307-1601 40011047-139 NX2227HK 691280 IMRCEE01A 16 139 0307-1601 40011047-135 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011047-118 NX2227HK 691280 IMRCEE01A 17 19 0307-1601 40011047-124 NX2227HK 691280 IMRCEE01A 17 17 0307-1601 40011047-124					1.0.22		
MRCEE01A 140 121 0307-1601 40011056-52 NX2227HK 691280 MRCEE01A 135 122 0307-1601 40010925-193 JG92 691280 MRCEE01A 130 123 0307-1601 40011047-122 NX2227HK 691280 MRCEE01A 103 124 0307-1601 40011047-132 NX2227HK 691280 MRCEE01A 118 127 0307-1601 40011047-114 NX2227HK 691280 MRCEE01A 29 128 0307-1601 40011047-137 NX2227HK 691280 MRCEE01A 115 132 0307-1601 40011047-113 NX2227HK 691280 MRCEE01A 94 133 0307-1601 40010925-199 JG92 691280 MRCEE01A 125 134 0307-1601 40010925-199 JG92 691280 MRCEE01A 125 134 0307-1601 40011047-110 NX2227HK 691280 MRCEE01A 13 136 0307-1601 40011047-116 NX2227HK 691280 MRCEE01A 13 136 0307-1601 40011047-116 NX2227HK 691280 MRCEE01A 15 137 0307-1601 40011047-116 NX2227HK 691280 MRCEE01A 17 138 0307-1601 40011047-115 NX2227HK 691280 MRCEE01A 17 138 0307-1601 40011047-115 NX2227HK 691280 MRCEE01A 109 138 0307-1601 40011047-125 NX2227HK 691280 MRCEE01A 14 139 0307-1601 40011047-115 NX2227HK 691280 MRCEE01A 17 140 0307-1601 40011047-135 NX2227HK 691280 MRCEE01A 17 140 0307-1601 40011047-135 NX2227HK 691280 MRCEE01A 16 141 0307-1601 40011047-136 NX2227HK 691280 MRCEE01A 17 0307-1601 40011047-132 NX2227HK 691280 MRCEE01A 46 173 0307-1601 40011047-132 NX22	1MRCEE01A	122	117	0307-1601	40011047-110	NX2227HK	691280
IMRCEE01A 135 122 0307-1601 40010925-193 JG92 691280	1MRCEE01A	28	121	0307-1601	40011047-126	NX2227HK	691280
IMRCEE01A 130 123 0307-1601 40011047-122 NX2227HK 691280	1MRCEE01A	140	121	0307-1601	40011056-52	NX2227HK	691280
MRCEE01A 103 124 0307-1601 40011047-133 NX2227HK 691280	1MRCEE01A	135	122	0307-1601	40010925-193	JG92	691280
IMRCEED1A 118 127 0307-1601 40011047-114 NX2227HK 691280 IMRCEE01A 29 128 0307-1601 40011047-137 NX2227HK 691280 IMRCEE01A 115 132 0307-1601 40011047-113 NX2227HK 691280 IMRCEE01A 94 133 0307-1601 40011055-56 NX2227HK 691280 IMRCEE01A 125 134 0307-1601 40011047-140 NX2227HK 691280 IMRCEE01A 4 135 0307-1601 40011047-116 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 52 137 0307-1601 40011047-135 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011047-139 NX2227HK 691280 IMRCEE01A 109 138 0307-1601 40011047-139 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 <td>1MRCEE01A</td> <td>130</td> <td>123</td> <td>0307-1601</td> <td>40011047-122,</td> <td>NX2227HK</td> <td>691280</td>	1MRCEE01A	130	123	0307-1601	40011047-122,	NX2227HK	691280
MRCEE01A 29 128 0307-1601 40011047-137 NX2227HK 691280	1MRCEE01A	103	124	0307-1601	40011047-133	NX2227HK	691280
MRCEE01A 115 132 0307-1601 40011047-113 NX2227HK 691280	1MRCEE01A	118	127	0307-1601	40011047-114	NX2227HK	
IMRCEE01A 94 133 0307-1601 40010925-199 JG92 691280 IMRCEE01A 125 134 0307-1601 40011056-56 NX2227HK 691280 IMRCEE01A 4 135 0307-1601 40011047-140 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 52 137 0307-1601 40011047-115 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011047-139 NX2227HK 691280 IMRCEE01A 109 138 0307-1601 40011047-135 NX2227HK 691280 IMRCEE01A 14 139 0307-1601 40011047-135 NX2227HK 691280 IMRCEE01A 16 139 0307-1601 40011047-138 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 40011047-138 NX2227HK 691280 IMRCEE01A 16 141 0307-1601	1MRCEE01A	29	128	0307-1601	40011047-137	NX2227HK	691280
MRCEE01A 125 134 0307-1601 40011056-56 NX2227HK 691280	1MRCEE01A	115	132	0307-1601	40011047-113	NX2227HK	691280
1MRCEE01A 4 135 0307-1601 40011047-140 NX2227HK 691280 1MRCEE01A 13 136 0307-1601 40011047-116 NX2227HK 691280 1MRCEE01A 52 137 0307-1601 40011047-115 NX2227HK 691280 1MRCEE01A 17 138 0307-1601 40011047-139 NX2227HK 691280 1MRCEE01A 109 138 0307-1601 40011047-125 NX2227HK 691280 1MRCEE01A 14 139 0307-1601 40011047-135 NX2227HK 691280 1MRCEE01A 16 139 0307-1601 40011047-135 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011047-135 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011047-138 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011047-118 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 <td>1MRCEE01A</td> <td>94</td> <td>133</td> <td>0307-1601</td> <td>40010925-199</td> <td>JG92</td> <td>691280</td>	1MRCEE01A	94	133	0307-1601	40010925-199	JG92	691280
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1MRCEE01A 46 173 0307-1601 40011047-132 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011047-119 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011047-136 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011047-123 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011047-134 NX2227HK 691280	*****	1	172	0307-1601	40011047-121		
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IMRCEEUTA 42 178 CCC1-1001 4CC-1001	1MRCEE01A	46	177	0307-1601			
1MRCEE01A 30 185 0307-1601 40011047-112 NX2227HK 691280	1MRCEE01A	42	179	0307-1601			
		30	185	0307-1601	40011047-112	NX2227HK	691280

	ASME SECTION	ON XI - REPAIR/F	REPLACEMENT	Page of
1. Component ID 1M	IRCEE01A	2. Code 0	lass ASME SECTION	III, CLASS 1
3. Item Description S	TEAM GENERATOR #		· · · · · · · · · · · · · · · · · · ·	
4. N-5 Package Numl	ber IRCO/1-4	5. W.O. N	umber <u>2458020</u>	
6. Original Construction	on Code Edition 1971 EI	OITION & 1973 WINTE	R ADDENDA	
7. Original Installation	Code Edition 1974 EDI	TION & 1975 WINTER	ADDENDA	
			MRCEE01A COLD LE	G TUBES
<u> </u>	ING-DFWO 2458001 EV	ALUATION AND DISE	POSITION	
9. 🗹 ISI Flaw	NDE N	Method of Flaw Detection	EDDY CURRENT	· · · · · · · · · · · · · · · · · · ·
		Report Number _1	R10 EDDY CURRENT	EXAM REPORT
	suitability of this work as p PER ENG-DFWO 24580		VA-4150.	
	-1W-1-0	TOTAL CALLS		
	nt Work Organization _\			
			DITION & 1973 WINTER	
			ION & 1975 WINTER A	DDENDA
	Code/Edition 1992 EDIT			
15. Preservice Inspect 08/19/02	•	YES	✓ NO rm Preservice Inspection	
Initial Date	ii required, include a	step in the W.O. to peno	ini Preservice irispection	•
16. ASME Section XI F	Pressure Test Required	T YES	☑ NO	
08/19/02 Oste	If required, include a s	step in the W.O. for ISI &	ANII Inspection.	
<u> 18/19/02</u>	17. Include a step in	the W.O. to complete NIS	S-2 Form prior to releasin	g the component.
Initial Date 08/19/02	18. Include a step in	the W.O. to record below	all applicable numbers fo	or replacement items
Initial Date	`			
TUBE PLUGS	PART NO. SEE ATTACH LIST	SERIAL NO. SEE ATTACH LIST	HEAT NO. SEE ATTACH LIST	MR/PO/WO NO. SEE ATTACH LIST
TOBE FLOGS	SEE ATTACH LIST	SEE ATTACHLIST	SEE ATTACHEST	SEE ATTACHLIST
		· · · · · · · · · · · · · · · · · · ·		
			•	
	<u> </u>			
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19. Planner Mul.	2 Down & P.	08/19/02 Print N	lame MICHAEL B. NE	WELL
	Signature	Date		
20 ISI Engineer	Can Monon	- 8/20/02 Print N	lame Alan M	ntra.i
	Signature	Date		
		•	•	
1	4 L			
21. ANII /A	& Lysten Signature	Print N	lame ROBERT HOGST	ROM
PV-E0093 Ver. 7				730P-92Z17

As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 08/20/22 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2458020 None 3. Work Performed by WESTINGHOUSE Type Code Symbol Stamp Authorization No. N/A. 911 W MAIN ST CHATTANOOGA TN 37402 Expiration Date N/A REACTOR COOLANT 4. Identification of System 5. (a) Applicable Construction Code ASME SEC III CL.1 1971 Edition, W;73 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 Repaired ASME Code Manufacturer National Year Name of Other Name of Stamped Board No. Identification Built Replacement or Manufacturer Serial No. Item (Yes or No) Yes S/G CE 78273-1 22499 1MRCEE01A 1978 Replacement 7. Description of Work PLUG STEAM GENERATOR 11 COLD LEG TUBES PER DFWO 2458001. Exempt N-416-1 Pneumatic Nominal Operating Pressure 8. Test Conducted: Hydrostatic Test Temp. Other [] Pressure 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)	
Remarks	SEE DFWO 2458001 F	OR TUBES PLUGGE	D (PLUGGING LIST ATTACHED).	
	C	ERTIFICATE OF (COMPLIANCE	
	y that the statements ma SME Code, Section XI.	de in the report are cor	rect and this replacement conforms	s to the rules
Type Co	de Symbol Stamp	N/A		
1			Expiration Date	N/A
Signed_	DBH- SA	e NSULTING E) mer or Owner's Designee, Title	Date 10 - 3	21-02
<u>L </u>				
, , , , , , , , , , , , , , , , , , ,	CERTI	FICATE OF INSER	VICE INSPECTION	<u>,</u>
	-		the National Board of Boiler and Press employed by <u>HSB CT</u>	sure Vessel
of <u>Har</u> the period	tford. Connecticut, h	nave inspected the con	nponents described in this Owner's Re , and state that to the best of my know corrective measures described in this	wledge and
-	accordance with the requ			Owner 3
concernin	g the examinations and o	corrective measures de oyer shall be liable in ar	nployer makes any warranty, expresse scribed in this Owner's Report. Furthe ny manner for any personal injury or pr ith this inspection.	ermore,
	Inspector's Signature	Com	missions ~ いら タムもち "みんっこ" 人ュ National Board, State, Province, and E	264 ndorsements
Date	10-25-02			

STEAM GENERATOR 1MRCEE01A "COLD LEG"

r		4.0521	<u> </u>	VI DEDAID/DE	NACCHENT	
				XI-REPAIR/REP	HEAT NO.	MR NO.
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.		683821
1MRCEE01A	8	1	0307-1601	40010592-35	HB39	683821
1MRCEE01A	6	9	0307-1601	40010592-33	HB39 HB39	683821
1MRCEE01A	65	12	0307-1601	40010592-40		683821
1MRCEE01A	67	12	0307-1601	40010592-39	HB39	
1MRCEE01A	28	13	0307-1601	40010592-13	HB39	683821 683821
1MRCEE01A	64	13	0307-1601	40010592-37	HB39	
1MRCEE01A	66	13	0307-1601	40010592-49	HB39	683821
1MRCEE01A	65	14	0307-1601	40010592-36	HB39	683821
1MRCEE01A	82	15	0307-1601	40010592-53	HB39	683821
1MRCEE01A	81	16	0307-1601	40010592-41	HB39	683821
1MRCEE01A	83	16	0307-1601	40010592-42	HB39	683821
1MRCEE01A	80	17	0307-1601	40010592-45	HB39	683821
1MRCEE01A	82	17	0307-1601	40010592-48	HB39	683821
1MRCEE01A	84	17	0307-1601	40010592-43	HB39	683821
1MRCEE01A	79	18	0307-1601	40010592-38	HB39	683821
1MRCEE01A	81	18	0307-1601	40010592-44	HB39	683821
1MRCEE01A	83	18	0307-1601	40010592-46	HB39	683821
1MRCEE01A	80	19	0307-1601	40010592-54	HB39	683821
1MRCEE01A	75	20	0307-1601	40010592-26	HB39	683821
1MRCEE01A	66	· 23	0307-1601	40010592-50	HB39	683821
1MRCEE01A	90	23	0307-1601	40010592-47	HB39	683821
1MRCEE01A	53	24	0307-1601	40010592-1	HB39	683821
1MRCEE01A	82	25	0307-1601	40010592-25	HB39	683821
1MRCEE01A	59	26	0307-1601	40010592-52	HB39	683821
1MRCEE01A	69	26	0307-1601	40010592-51	HB39	683821
1MRCEE01A	81	26	0307-1601	40010592-12	HB39-	683821
1MRCEE01A	72	27	0307-1601	40010592-14	HB39	683821
1MRCEE01A	37	28	0307-1601	40010592-3	HB39	683821
1MRCEE01A	65	28	0307-1601	40010592-34	HB39	683821
1MRCEE01A	93	28	0307-1601	40010592-23	HB39	683821
1MRCEE01A	90	29	0307-1601	40010592-24	HB39	683821
1MRCEE01A	58	31	0307-1601	40010592-31	HB39	683821
1MRCEE01A	62	31	0307-1601	40010592-15	· HB39	683821
1MRCEE01A	59	32	0307-1601	40010592-32	HB39	683821
1MRCEE01A	76	33	0307-1601	40010592-27	HB39	683821
1MRCEE01A	67	34	0307-1601	40010592-16	HB39	683821
1MRCEE01A	60	37	0307-1601	40010592-5	HB39	683821
1MRCEE01A	67	38	0307-1601	40010592-6	HB39	683821
1MRCEE01A	63	42	0307-1601	40010592-17	HB39	683821
1MRCEE01A	91	42	0307-1601	40010592-30	HB39	683821
1MRCEE01A	66	43	0307-1601	40010592-28	HB39	683821
1MRCEE01A	67	44	0307-1601	40010592-10	HB39	683821
1MRCEE01A		44	0307-1601	40010592-11	HB39	683821
1MRCEE01A		44	0307-1601	40010592-29	HB39	683821
1MRCEE01A		46	0307-1601	40010592-2	HB39	683821
1MRCEE01A		48	0307-1601	40010592-63	HB39	683821
1MRCEE01A		48	0307-1601	40010592-93	HB39	683821
1MRCEE01A		48	0307-1601	40010592-78	HB39	683821
1MRCEE01A		50	0307-1601	40010592-61	HB39	683821
		1		<u></u>		

STEAM GENERATOR 1MRCEE01A "COLD LEG"

				COLD LEG		
1MRCEE01A	109	50	0307-1601	40010592-85	HB39	683821
1MRCEE01A	40	53	0307-1601	40010592-71	HB39	683821
1MRCEE01A	54	53	0307-1601	40010592-72	. HB39	683821
1MRCEE01A	84	53	0307-1601	40010592-22	HB39	683821
1MRCEE01A	88	53	0307-1601	40010592-95	HB39	683821
1MRCEE01A	90	53	0307-1601	40010592-99	HB39	683821
1MRCEE01A	58	55	0307-1601	40010592-73	HB39	683821
1MRCEE01A	82	55	0307-1601	40010592-102	HB39	683821
1MRCEE01A	90	55	0307-1601	40010592-98	HB39	683821
1MRCEE01A	119	56	0307-1601	40010592-86	HB39	683821
1MRCEE01A	118	57	0307-1601	40010592-90	HB39	683821
1MRCEE01A	111	58	0307-1601	40010592-94	HB39	683821
1MRCEE01A	10	59	0307-1601	40010592-4	HB39	683821
1MRCEE01A	42	59	0307-1601	40010592-74	HB39	683821
1MRCEE01A	67	60	0307-1601	40010592-76	HB39	683821
1MRCEE01A	24	61	0307-1601	40010592-75	HB39	683821
1MRCEE01A	40	61	0307-1601	40010592-62	HB39	683821
1MRCEE01A	35	62	0307-1601	40010592-64	HB39	683821
1MRCEE01A	39	62	0307-1601	40010592-77	HB39	683821
1MRCEE01A	103	62	0307-1601	40010592-82	HB39	683821
1MRCEE01A	111	62	0307-1601	40010592-55	HB39	683821
1MRCEE01A	125	62	0307-1601	40010592-87	HB39	683821
1MRCEE01A	4	63	0307-1601	40010592-8	HB39	683821
1MRCEE01A	98	63	0307-1601	40010592-100	HB39	683821
1MRCEE01A	35	64	0307-1601	40010592-65	HB39	683821
1MRCEE01A	89	64	0307-1601	40010592-84	HB39	683821
1MRCEE01A	40	65	0307-1601	40010592-66	HB39	683821
1MRCEE01A	48	65	0307-1601	40010592-67	HB39	683821
1MRCEE01A	140	65	0307-1601	40010592-88	HB39	683821
1MRCEE01A	37	66	0307-1601	40010592-68	HB39	683821
1MRCEE01A	49	66	0307-1601	40010592-60	HB39	683821
1MRCEE01A	65	66	0307-1601	40010592-59	HB39	683821
1MRCEE01A	68	67	0307-1601	40010592-58	HB39	683821
1MRCEE01A	118	67	0307-1601	40010592-91	HB39	683821
1MRCEE01A	128	67	0307-1601	40010592-81	HB39	683821
1MRCEE01A	35	68	0307-1601	40010592-69	HB39	683821
1MRCEE01A	41	68	0307-1601	40010592-57	HB39	683821
1MRCEE01A	135	68	0307-1601	40010592-96	HB39	683821
1MRCEE01A	137	68	0307-1601	40010592-92	HB39	683821
1MRCEE01A	56	69	0307-1601	40010592-70	HB39	683821
1MRCEE01A	108	69	0307-1601	40010592-101	HB39	683821
1MRCEE01A	49	70	0307-1601	40010592-56	HB39	683821
1MRCEE01A	63	70	0307-1601	40010592-126	HB39	683821
1MRCEE01A	113	70	0307-1601	40010592-80	HB39	683821
1MRCEE01A	82	71	0307-1601	40010592-109	HB39	683821
1MRCEE01A	35	72	0307-1601	40010592-194	HB39	683821
1MRCEE01A	51	72	0307-1601	40010592-125	HB39	683821
1MRCEE01A	81	72	0307-1601	40010592-106	HB39	683821
1MRCEE01A	52	73	0307-1601	40010592-114	HB39	683821
1MRCEE01A	128	73	0307-1601	40010592-78	: HB39	683821
1MRCEE01A	105	74	0307-1601	40010592-105	HB39	683821
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				COLD LLG		
1MRCEE01A	125	74	0307-1601	40010592-83	HB39	683821
1MRCEE01A	153	74	0307-1601	40010592-97	HB39	683821
1MRCEE01A	46	75	0307-1601	40010592-103	HB39	683821
1MRCEE01A	52	75	0307-1601	40010592-123	HB39	683821
1MRCEE01A	74	75	0307-1601	40010592-120	HB39	683821
1MRCEE01A	96	75	0307-1601	40010592-107	HB39	683821
1MRCEE01A	146	75	0307-1601	40010592-89	HB39	683821
1MRCEE01A	51	76	0307-1601	40010592-108	HB39	683821
1MRCEE01A	59	76	0307-1601	40010592-131	HB39	683821
1MRCEE01A	61	76	0307-1601	40010592-136	HB39	683821
1MRCEE01A	38	77	0307-1601	40010592-197	HB39	683821
1MRCEE01A	58	77	0307-1601	40010592-137	HB39	683821
1MRCEE01A	68	77	0307-1601	40010592-138	HB39	683821
1MRCEE01A	132	77	0307-1601	40010592-170	HB39	683821
1MRCEE01A	39	78	0307-1601	40010592-195	HB39	683821
1MRCEE01A	61	78	0307-1601	40010592-149	HB39	683821
1MRCEE01A	63	78	0307-1601	40010592-139	HB39	683821
1MRCEE01A	117	78	0307-1601	40010592-166	HB39	683821
1MRCEE01A	36	79	0307-1601	40010592-104	HB39	683821
1MRCEE01A	78	79	0307-1601	40010592-134	HB39	683821
1MRCEE01A	130	79	0307-1601	40010592-164	HB39	683821
1MRCEE01A	39	80	0307-1601	40010592-117	HB39	683821
1MRCEE01A	65	80	0307-1601	40010592-151	HB39	683821
1MRCEE01A	117	80	0307-1601	40010592-163	HB39	683821
1MRCEE01A	133	80	0307-1601	40010592-176	HB39	683821
1MRCEE01A	56	81	0307-1601	40010592-142	HB39	683821
1MRCEE01A	62	81	0307-1601	40010592-147	HB39	683821
1MRCEE01A	122	81	0307-1601	40011056-9	NX2227HK	691280
1MRCEE01A	154	81	0307-1601	40011056-10	NX2227HK	691280
1MRCEE01A	59	82	0307-1601	40010592-148	HB39	683821
1MRCEE01A	63	82	0307-1601	40010592-146	HB39	683821
1MRCEE01A	40	83	0307-1601	40011056-36	NX2227HK	691280
1MRCEE01A	60	83	0307-1601	40010592-145	HB39	683821
1MRCEE01A	112	83	0307-1601	40011056-11	NX2227HK	691280
1MRCEE01A	128	83	0307-1601	40010592-162	HB39	683821
1MRCEE01A	136	83	0307-1601	40011056-5	NX2227HK	691280
1MRCEE01A	150	83	0307-1601	40011056-7	NX2227HK	691280
1MRCEE01A	63	84	0307-1601	40010592-130	HB39	683821
1MRCEE01A	67	84	0307-1601	40010592-141	HB39	683821
1MRCEE01A	97	84	0307-1601	40010592-168	HB39	683821
1MRCEE01A	135	84	0307-1601	40011056-24	NX2227HK	691280
1MRCEE01A	34	85	0307-1601	40010592-124	HB39	683821
1MRCEE01A	36	85	0307-1601	40010592-115	HB39	683821
1MRCEE01A	62	85	0307-1601	40010592-150	HB39	683821
1MRCEE01A	68	85	0307-1601	40010592-133	HB39 .	683821
1MRCEE01A	118	85	0307-1601	40011056-28	NX2227HK	691280
1MRCEE01A	140	85	0307-1601	40011056-16	NX2227HK	691280
1MRCEE01A	148	85	0307-1601	40011056-13	NX2227HK	691280
1MRCEE01A	35	86	0307-1601	40010592-113	HB39	683821
1MRCEE01A	37	86	0307-1601	40010592-110	HB39	683821
1MRCEE01A	47	86	0307-1601	40010592-118	HB39	683821

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1MRCEE01A	59	86	0307-1601	40010592-127	HB39	683821
1MRCEE01A	61	86	0307-1601	40010592-143	HB39	683821
1MRCEE01A	65_	86	0307-1601	40010592-128	HB39	683821
1MRCEE01A	107	86	0307-1601	40010592-153	HB39	683821
1MRCEE01A	139	86	0307-1601	40011056-25	NX2227HK	691280
1MRCEE01A	44	87	0307-1601	40010592-119	HB39	683821
1MRCEE01A	62	87	0307-1601	40010592-144	HB39	683821
1MRCEE01A	64	87	0307-1601	40010592-129	HB39	683821
1MRCEE01A	150	87	0307-1601	40011056-14	NX2227HK	691280
1MRCEE01A	44	89	0307-1601	40010592-132	HB39	683821
1MRCEE01A	56	89	0307-1601	40010592-173	HB39	683821
1MRCEE01A	118	89	0307-1601	40011056-6	NX2227HK	691280
1MRCEE01A	142	89	0307-1601	40010592-165	HB39	683821
1MRCEE01A	43	90	0307-1601	40010592-112	HB39	683821
1MRCEE01A	54	91	0307-1601	40010592-122	HB39	683821
1MRCEE01A	56	91	0307-1601	40010592-171	HB39	683821
1MRCEE01A	53	92	0307-1601	40010592-111	HB39	683821
1MRCEE01A	59	92	0307-1601	40010592-172	HB39	683821
1MRCEE01A	133	92	0307-1601	40011056-4	NX2227HK	691280
1MRCEE01A	141	92	0307-1601	40010592-178	HB39	683821
1MRCEE01A	104	93	0307-1601	40010592-156	HB39	683821
1MRCEE01A	59	94	0307-1601	40010592-152	HB39	683821
1MRCEE01A	52	95	0307-1601	40010592-116	HB39	683821
1MRCEE01A	66	97	0307-1601	40010592-169	HB39	683821
1MRCEE01A	68	97	0307-1601	40010592-174	HB39	683821
1MRCEE01A	125	98	0307-1601	40011056-12	NX2227HK	691280
1MRCEE01A	145	98	0307-1601	40011056-29	NX2227HK	691280
1MRCEE01A	91	100	0307-1601	40010592-161	HB39	683821
1MRCEE01A	66	101	0307-1601	40010592-159	HB39	683821
1MRCEE01A	65	102	0307-1601	40010592-154	HB39	683821
1MRCEE01A	137	102	0307-1601	40011056-30	NX2227HK	691280
1MRCEE01A	144	103	0307-1601	40010592-199	HB39	683821
1MRCEE01A	67	104	0307-1601	40010592-158	HB39	683821
1MRCEE01A	119	104	0307-1601	40010592-198	HB39	683821
1MRCEE01A	124	105	0307-1601	40010592-179	HB39	683821
1MRCEE01A	63	106	0307-1601	40010592-160	HB39	683821
1MRCEE01A	137	106	0307-1601	40010592-177	HB39	683821
1MRCEE01A	112	107	0307-1601	40011056-15	NX2227HK	691280
1MRCEE01A	132	107	0307-1601	40011056-1	NX2227HK	691280
1MRCEE01A	41	108	0307-1601	40010592-121	HB39	683821
1MRCEE01A	49	108	0307-1601	40010592-140	HB39	683821
1MRCEE01A	121	108	0307-1601	40010592-196	HB39	683821
1MRCEE01A	129	108	0307-1601	40010592-192	HB39	683821
1MRCEE01A	149	108	0307-1601	40011056-17	NX2227HK	691280
1MRCEE01A	147	110	0307-1601	40011056-8	NX2227HK	691280
1MRCEE01A	64	111	0307-1601	40010592-155	HB39	683821
1MRCEE01A	132	113	0307-1601	40010592-191	HB39	683821
1MRCEE01A	140	113	0307-1601	40010592-193	HB39	683821
1MRCEE01A	71	114	0307-1601	40010592-157	HB39	683821
1MRCEE01A	148	115	0307-1601	40010592-180	HB39	683821
	125	116	0307-1601	40010592-181	HB39	683821
1MRCEE01A	120	110	0301-1001	-100 10002-101		

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IMRCEE01A 122 117							
Timrcee01A 140 121 0307-1601 40010592-189 HB39 683821	1MRCEE01A	122	117	0307-1601	40010592-182	HB39	683821
IMRCEE01A 135 122 0307-1601 40010592-183 HB39 683821 IMRCEE01A 130 123 0307-1601 40010592-184 HB39 683821 IMRCEE01A 103 124 0307-1601 40010592-186 HB39 683821 IMRCEE01A 118 127 0307-1601 40010592-186 HB39 683821 IMRCEE01A 29 128 0307-1601 40010592-167 HB39 683821 IMRCEE01A 115 132 0307-1601 40010592-167 HB39 683821 IMRCEE01A 94 133 0307-1601 40010592-167 HB39 683821 IMRCEE01A 94 133 0307-1601 40010592-185 HB39 683821 IMRCEE01A 125 134 0307-1601 40010592-185 HB39 683821 IMRCEE01A 125 134 0307-1601 40010592-185 HB39 683821 IMRCEE01A 13 136 0307-1601 40011056-31 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011056-40 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011056-40 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 400110592-186 HB39 683821 IMRCEE01A 109 138 0307-1601 400110592-186 HB39 683821 IMRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 40011056-2 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 120 149 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 137 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 46 173 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 46 173 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 46 175	1MRCEE01A	28	121	0307-1601	40010592-175	HB39	683821
TMRCEE01A 130 123 0307-1601 40010592-184 HB39 683821	1MRCEE01A	140	121	0307-1601	40010592-189	HB39	683821
IMRCEE01A 103 124 0307-1601 40010592-187 HB39 683821 IMRCEE01A 118 127 0307-1601 40010592-188 HB39 683821 IMRCEE01A 29 128 0307-1601 40010592-167 HB39 683821 IMRCEE01A 115 132 0307-1601 40010592-167 HB39 683821 IMRCEE01A 94 133 0307-1601 40010592-167 HB39 683821 IMRCEE01A 94 133 0307-1601 40010592-185 HB39 683821 IMRCEE01A 125 134 0307-1601 40010592-185 HB39 683821 IMRCEE01A 135 0307-1601 40010592-185 HB39 683821 IMRCEE01A 13 136 0307-1601 40011056-31 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011056-31 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40011056-38 NX2227HK 691280 IMRCEE01A 17 138 0307-1601 40010592-186 HB39 683821 IMRCEE01A 109 138 0307-1601 40010592-186 HB39 683821 IMRCEE01A 14 139 0307-1601 40011056-21 NX2227HK 691280 IMRCEE01A 16 14 139 0307-1601 40011056-2 NX2227HK 691280 IMRCEE01A 16 14 0307-1601 40011056-2 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 63 160 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 63 160 0307-1601 40011056-4 NX2227HK 691280 IMRCEE01A 64 173 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 64 173 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 65 173 0307-1601 40011056-34 NX2227HK 691280 IMRCEE01A 66 173 0307-1601 40011056-34 NX2227HK 691280 IMRCEE01A 66 173	1MRCEE01A	135	122	0307-1601	40010592-183	HB39	683821
TMRCEE01A 118 127	1MRCEE01A	130	123	0307-1601	40010592-184	HB39	683821
IMRCEE01A 29 128 0307-1601 40010592-167 HB39 683821 IMRCEE01A 115 132 0307-1601 40010592-200 HB39 683821 IMRCEE01A 94 133 0307-1601 40011056-46 NX2227HK 691280 IMRCEE01A 125 134 0307-1601 40011056-31 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011056-31 NX2227HK 691280 IMRCEE01A 13 136 0307-1601 40011056-40 NX2227HK 691280 IMRCEE01A 52 137 0307-1601 40011056-40 NX2227HK 691280 IMRCEE01A 52 137 0307-1601 40010592-190 HB39 683821 IMRCEE01A 17 138 0307-1601 40010592-186 HB39 683821 IMRCEE01A 109 138 0307-1601 40011056-38 NX2227HK 691280 IMRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 IMRCEE01A 66 139 0307-1601 40011056-41 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-49 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-38 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-38 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-37 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 40011056-37 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 40011056-44 NX2227HK 691280 IMRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 IMRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 IMRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 IMRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 IMRCEE01A 46 175 0307-1601 40011056-48 NX2227HK 6	1MRCEE01A	103	124	0307-1601	40010592-187	HB39	683821
TMRCEE01A 115 132 0307-1601 40010592-200 HB39 663821	1MRCEE01A	118	127	0307-1601	40010592-188	HB39	683821
TMRCEE01A 94 133 0307-1601 40011056-46 NX2227HK 691280	1MRCEE01A	29	128	0307-1601	40010592-167	HB39	683821
IMRCEE01A 125 134 0307-1601 40010592-185 HB39 683821 1MRCEE01A 4 135 0307-1601 40011056-31 NX2227HK 691280 1MRCEE01A 13 136 0307-1601 40011056-40 NX2227HK 691280 1MRCEE01A 52 137 0307-1601 40010592-190 HB39 683821 1MRCEE01A 17 138 0307-1601 40011056-38 NX2227HK 691280 1MRCEE01A 109 138 0307-1601 40011056-38 NX2227HK 691280 1MRCEE01A 109 138 0307-1601 40011056-41 NX2227HK 691280 1MRCEE01A 14 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 400	1MRCEE01A	115	132	0307-1601	40010592-200	HB39	683821
IMRCEE01A	1MRCEE01A	94	133	0307-1601	40011056-46	NX2227HK	691280
IMRCEE01A 13 136 0307-1601 40011056-40 NX2227HK 691280 IMRCEE01A 52 137 0307-1601 40010592-190 HB39 683821 IMRCEE01A 17 138 0307-1601 40011056-38 NX2227HK 691280 IMRCEE01A 109 138 0307-1601 40011056-41 NX2227HK 691280 IMRCEE01A 14 139 0307-1601 40011056-21 NX2227HK 691280 IMRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 IMRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-49 NX2227HK 691280 IMRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 IMRCEE01A 121 156 0307-1601 4	1MRCEE01A	125	134	0307-1601	40010592-185	HB39	683821
1MRCEE01A 52 137 0307-1601 40010592-190 HB39 683821 1MRCEE01A 17 138 0307-1601 40011056-38 NX2227HK 691280 1MRCEE01A 109 138 0307-1601 40010592-186 HB39 683821 1MRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 1MRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40	1MRCEE01A	4	135	0307-1601	40011056-31	NX2227HK	691280
1MRCEE01A 17 138 0307-1601 40011056-38 NX2227HK 691280 1MRCEE01A 109 138 0307-1601 40010592-186 HB39 683821 1MRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 1MRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 <td< td=""><td>1MRCEE01A</td><td>13</td><td>136</td><td>0307-1601</td><td>40011056-40</td><td>NX2227HK</td><td>691280</td></td<>	1MRCEE01A	13	136	0307-1601	40011056-40	NX2227HK	691280
1MRCEE01A 109 138 0307-1601 40010592-186 HB39 683821 1MRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 1MRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40	1MRCEE01A	52	137	0307-1601	40010592-190	HB39	683821
1MRCEE01A 14 139 0307-1601 40011056-41 NX2227HK 691280 1MRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 <	1MRCEE01A	17	138	0307-1601	40011056-38	NX2227HK	691280
1MRCEE01A 66 139 0307-1601 40011056-2 NX2227HK 691280 1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 <	1MRCEE01A	109	138	0307-1601	40010592-186	HB39	683821
1MRCEE01A 17 140 0307-1601 40011056-27 NX2227HK 691280 1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601	1MRCEE01A	14	139	0307-1601	40011056-41	NX2227HK	691280
1MRCEE01A 137 140 0307-1601 40011056-49 NX2227HK 691280 1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601	1MRCEE01A	66	139	0307-1601	40011056-2	NX2227HK	
1MRCEE01A 16 141 0307-1601 40011056-43 NX2227HK 691280 1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 <	1MRCEE01A	17	140	0307-1601	40011056-27	NX2227HK	691280
1MRCEE01A 78 141 0307-1601 40011056-3 NX2227HK 691280 1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-39 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 <	1MRCEE01A	137	140	0307-1601	40011056-49	NX2227HK	691280
1MRCEE01A 128 145 0307-1601 40011056-44 NX2227HK 691280 1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-39 NX2227HK 691280 1MRCEE01A 42 179 0307-1601	1MRCEE01A	16	141	0307-1601	40011056-43	NX2227HK	
1MRCEE01A 122 149 0307-1601 40011056-37 NX2227HK 691280 1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-38 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	78	141	0307-1601	40011056-3		
1MRCEE01A 121 156 0307-1601 40011056-50 NX2227HK 691280 1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	128	145	0307-1601	40011056-44		
1MRCEE01A 63 160 0307-1601 40011056-42 NX2227HK 691280 1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	122	149	0307-1601	40011056-37		
1MRCEE01A 32 171 0307-1601 40011056-45 NX2227HK 691280 1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	· 121	156	0307-1601	40011056-50		
1MRCEE01A 1 172 0307-1601 40011056-35 NX2227HK 691280 1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	63	160	0307-1601	40011056-42		
1MRCEE01A 46 173 0307-1601 40011056-47 NX2227HK 691280 1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	32	171	0307-1601			
1MRCEE01A 50 173 0307-1601 40011056-34 NX2227HK 691280 1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	1	172	0307-1601	40011056-35		
1MRCEE01A 46 175 0307-1601 40011056-32 NX2227HK 691280 1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	46	173	0307-1601	40011056-47		
1MRCEE01A 46 177 0307-1601 40011056-48 NX2227HK 691280 1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	50	173	0307-1601	40011056-34		
1MRCEE01A 42 179 0307-1601 40011056-39 NX2227HK 691280	1MRCEE01A	46	175	0307-1601			
THE CELEVITY IL 110 DOG! TO !	1MRCEE01A	46	177	0307-1601	40011056-48	NX2227HK	
1MRCEE01A 30 185 0307-1601 40011056-33 NX2227HK 691280	1MRCEE01A	42	179	0307-1601	40011056-39		
	1MRCEE01A	30	185	0307-1601	40011056-33	NX2227HK	691280

	ASME SECTION	ON XI - REPÁIR/I	REPLACEMENT	
Component ID 1M Item Description S7	RCEE01 & B 2-72 TEAM GENERATOR #2	2. Code Cl	ass ASME SECTION II	I, CLASS 1
4. N-5 Package Numb	•	5 W O. Nu	mber 2458021	
_	n Code Edition 1971 ED			
	Code Edition 1974 EDIT			
-			MRCEE01B HOT LEG	TUBES
E. WORK Description	NG-DFWO 2458003 EV	ALUATION AND DISP	OSITION.	
	NDE M	ethod of Flaw Detection	FDDY CURRENT	
9. ISI Flaw	NDC M		R10 EDDY CURRENT E	XAM REPORT
10 Evaluation of the st	uitability of this work as pe	•		
	ER ENG-DFWO 245800			
				-
		ESTRICUOLISE		
	nt Work Organization W		TTION 6. 1072 WINTED	ADDENDA
			ITION & 1973 WINTER	
			ON & 1975 WINTER AI	DDENDA
14. ASME Section XI C	ode/Edition 1992 EDITI	ON & 1992 ADDENDA		
15. Preservice Inspect	on Required.	Q Y	es 🗹 no	
nitial Date	02 If required, include	a step in the W.O. to pe	rform Preservice Inspecti	ion.
16. ASME Section XI P			es 🗹 no	
<u> موکعا</u> <u> 16/24/6</u>	02 If required, include	a step in the W.O. for IS	I & ANII Inspection.	
Initial Date 06/24/0	17. Include a step	in the W.O. to complete	NIS-2 Form prior to relea	sing the component.
Initial Date 106/24/0 Initial Date	02 18. Include a step		low all applicable number	rs for repaired or
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 We	Lower Cle	06/24/02 Print N	Name MICHAEL B. NEV	WELL
20. ISI Engineer	Signature Lan Monon		Name Alun Mo	rrow
21. ANII	Signature Signature (Signature		Name ROBERT HOGST	ROM
	\7			

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona</u>	Public Service Con	mpany, et. al.			Date		08/20	0/22	
P.O. Bo	x 53999, Phoenix.	Arizona 85072	2-2034		Sheet_	1	of	·	2
2. Plant Palo Ver	rde Nuclear Genera				Unit		1		
<u>5801 S.</u>	Wintersburg Rd.,	lame Conopah, Arizo ddress	ona 85354-	7529			W.O.245		
	**************************************	TOT			= ` a.				None
3. Work Performed b	WESTINGHOUN	lame				_	nboi Stamp		
911 W N	MAIN ST CHATT	ANOOGA TN	1 37402						
Address									
4. Identification of Sy	stem <u>REACTO</u>	R COOLANT	· 						
5. (a) Applicable Co	nstruction Code ASM	Œ SEC III CL	<u>1</u> 19 <u>71</u> 1	Edition,	W;73	_ Adde	enda, <u>N/A</u>		Code Case
(b) Applicable Ed	ition of Section XI Utiliz	zed for Repairs or	r Replacemer	nts 19	<u>92</u> Edit	ion, _	1992	Adden	da
6 Identification of Co	omponents Repaired o	r Renlaced and F	leniacement (Compo	nents				
6. Identification of Co	The policies of the policies of	I	1			F	Repair	-ba	ASME Code
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.		ther ification	Year Built	or		Stamped (Yes or No)
S/G	CE	78273-2	22500	1MR	CEE01B	1978	Replacen		Yes
<u> </u>			·						
•						DDD :	DEWO 0	4500	02
7. Description of Wor	rk PLUG STEAM	GENERATO	R 12 HOT	LEG	TUBES	PER.	DFWO 2	4580	03.
8. Test Conducted:	Hydrostatic P	neumatic 🔲	Nominal Ope	erating	Pressure		Exempt [a	N-416-1 🔲
	Other 🔲 .	Pressure	psi			Test Te	emp	·	_°F
(2) information in it	ntal sheets in form of tems 1 through 6 on ets is recorded at the	this report is inc	cluded on ea	s may l ach sh	be used, eet, and	provid (3) ea	ded (1) siz ch sheet i	e is 8 s num	1/2 x 11 in., bered and

		FORM NIS-2	(Back)	
Remarks	SEE DFWO 2458003 I	FOR TUBES PLUGGED	(PLUGGING LIST ATTACHED).	
r		<i>.</i>		
		CERTIFICATE OF C	OMPLIANCE	
	fy that the statements manager of the code, Section XI.	ade in the report are corre	ct and this replacement conforms to repair or replacement	o the rules
Type Co	de Symbol Stamp	N/A		
Certificat	te of Authorization No	N/A	Expiration Date N	1/A
Signed_	DAH-	Se Jansus Title Owner or Owner's Designee, Title	Date 10-2	2-02
	CERT	IFICATE OF INSERV	ICE INSPECTION	
Inspector of <u>Har</u> the period belief, the	rs and the State or Provi rtford, Connecticut , d <u>8-20-02</u> to e Owner has performed	nce of <u>Arizona</u> and e , have inspected the comp p-25-02	ne National Board of Boiler and Pressumployed by HSB CT onents described in this Owner's Repaired and state that to the best of my knowled orrective measures described in this Code, Section XI.	ort during edge and
concernir	ng the examinations and ne Inspector nor his emp	corrective measures des	oloyer makes any warranty, expressed cribed in this Owner's Report. Further manner for any personal injury or pro n this inspection.	more,
	RAD Froten	Comm	issions N8 9685 "MIC" Az. 20	્ય
	inspector's Signatur	re	National Board, State, Province, and End	

STEAM GENERATOR 1MRCEE01B "HOT LEG"

COMP. D					HOI LEG					
MMRCEE01B 30 7 0307-1601 40011041-106 NX2227HK 663821 MMRCEE01B 1 10 0307-1601 40011041-150 NX2227HK 663821 MMRCEE01B 1 10 0307-1601 40011041-150 NX2227HK 663821 MMRCEE01B 2 11 0307-1601 40011041-150 NX2227HK 663821 MMRCEE01B 2 11 0307-1601 40011041-151 NX2227HK 663821 MMRCEE01B 2 11 0307-1601 40011041-152 NX2227HK 663821 MMRCEE01B 4 11 0307-1601 40011041-153 NX2227HK 663821 MMRCEE01B 1 12 0307-1601 40011041-155 NX2227HK 663821 MMRCEE01B 3 12 0307-1601 40011041-155 NX2227HK 663821 MMRCEE01B 5 12 0307-1601 40011041-155 NX2227HK 663821 MMRCEE01B 5 12 0307-1601 40011041-156 NX2227HK 663821 MMRCEE01B 4 13 0307-1601 40011041-156 NX2227HK 663821 MMRCEE01B 7 14 0307-1601 40011041-158 NX2227HK 663821 MMRCEE01B 7 14 0307-1601 40011041-158 NX2227HK 663821 MMRCEE01B 60 15 0307-1601 40011041-112 NX2227HK 663821 MMRCEE01B 60 15 0307-1601 40011041-112 NX2227HK 663821 MMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 663821 MMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 663821 MMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 663821 MMRCEE01B 71 18 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 71 18 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 71 80 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 51 20 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 51 24 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 51 24 0307-1601 40011041-168 NX2227HK 663821 MMRCEE01B 51 30 0307-1601 40011041-169 NX2227HK 663821 MMRCEE01B 51 30 0307-1601 40011041-169 NX2227HK 663821 MMRCEE01B 51 30 0307-1601 40011041-169 NX2227HK 663821 MMRCEE01B 101 24 0307-1601 40011041-169 NX2227HK 663821 MMRCEE01B 104 43 0307-1601 40011041-169 NX2227	ASME SECTION XI-REPAIR/REPLACEMENT									
IMRCEEOIB 25	COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.			
IMRCEE01B	1MRCEE01B	30	7	0307-1601	40011041-106	NX2227HK	683821			
IMRCEE018 3 10 0307-1601 40011041-151 NX2227HK 663821 IMRCEE018 4 11 0307-1601 40011041-153 NX2227HK 663821 IMRCEE018 4 11 0307-1601 40011041-153 NX2227HK 663821 IMRCEE018 1 12 0307-1601 40011041-153 NX2227HK 663821 IMRCEE018 3 12 0307-1601 40011041-155 NX2227HK 663821 IMRCEE018 5 12 0307-1601 40011041-156 NX2227HK 663821 IMRCEE018 5 12 0307-1601 40011041-156 NX2227HK 663821 IMRCEE018 2 13 0307-1601 40011041-156 NX2227HK 663821 IMRCEE018 4 13 0307-1601 40011041-156 NX2227HK 663821 IMRCEE018 4 13 0307-1601 40011041-156 NX2227HK 663821 IMRCEE018 4 13 0307-1601 40011041-161 NX2227HK 663821 IMRCEE018 4 15 0307-1601 40011041-161 NX2227HK 663821 IMRCEE018 4 15 0307-1601 40011041-112 NX2227HK 663821 IMRCEE018 50 15 0307-1601 40011041-113 NX2227HK 663821 IMRCEE018 71 18 0307-1601 40011041-173 NX2227HK 663821 IMRCEE018 90 19 0307-1601 40011041-173 NX2227HK 663821 IMRCEE018 25 20 0307-1601 40011041-124 NX2227HK 663821 IMRCEE018 25 20 0307-1601 40011041-114 NX2227HK 663821 IMRCEE018 41 24 0307-1601 40011041-114 NX2227HK 663821 IMRCEE018 51 24 0307-1601 40011041-114 NX2227HK 663821 IMRCEE018 51 24 0307-1601 40011041-114 NX2227HK 663821 IMRCEE018 51 30 0307-1601 40011041-104 NX2227HK 663821 IMRCEE018 10 24 0307-1601 40011041-104 NX2227HK 663821 IMRCEE018 17 36 0307-1601 40011041-104 NX2227HK 663821 IMRCEE018 19 36 0307-1601 40011041-104 NX2227HK 663821 IMRCEE018 19 36 0307-1601 40011041-105 NX2227HK 663821 IMRCEE018 10 40 3007-1601 40011041-107 NX2227H	1MRCEE01B	25	8	0307-1601	40011041-105	NX2227HK	683821			
IMRCEE018	1MRCEE01B	1	10	0307-1601	40011041-150 -	NX2227HK	683821			
TMRCEE01B	1MRCEE01B	3	10	0307-1601	40011041-151	NX2227HK	683821			
TMRCEE01B	1MRCEE01B	2	11	0307-1601	40011041-152	NX2227HK	683821			
IMRCEE01B 3 12 0307-1601 40011041-155 NX2227HK 663821 IMRCEE01B 5 12 0307-1601 40011041-156 NX2227HK 653821 IMRCEE01B 2 13 0307-1601 40011041-157 NX2227HK 653821 IMRCEE01B 4 13 0307-1601 40011041-158 NX2227HK 663821 IMRCEE01B 4 13 0307-1601 40011041-118 NX2227HK 663821 IMRCEE01B 42 15 0307-1601 40011041-112 NX2227HK 663821 IMRCEE01B 42 15 0307-1601 40011041-112 NX2227HK 663821 IMRCEE01B 60 15 0307-1601 40011041-112 NX2227HK 663821 IMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 663821 IMRCEE01B 90 19 0307-1601 40011041-173 NX2227HK 663821 IMRCEE01B 90 19 0307-1601 40011041-168 NX2227HK 663821 IMRCEE01B 30 21 0307-1601 40011041-124 NX2227HK 663821 IMRCEE01B 30 21 0307-1601 40011041-115 NX2227HK 663821 IMRCEE01B 41 24 0307-1601 40011041-108 NX2227HK 663821 IMRCEE01B 53 24 0307-1601 40011041-108 NX2227HK 663821 IMRCEE01B 53 24 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 56 29 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 56 29 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 56 29 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 56 30 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 51 30 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 117 32 0307-1601 40011041-104 NX2227HK 663821 IMRCEE01B 118 35 0307-1601 40011041-105 NX2227HK 663821 IMRCEE01B 118 35 0307-1601 40011041-106 NX2227HK 663821 IMRCEE01B 118 35 0307-1601 40011041-106 NX2227HK 663821 IMRCEE01B 13 36 0307-1601 40011041-107 NX2227HK 663821 IMRCEE01B 14 36 0307-1601 40011041-107 NX2227HK 663821 IMRCEE01B 13 36 0307-1601 40011041-107 NX2227HK 663821 IMRCEE01B 13 36 0307-1601 40011041-107 NX2227HK 663821 IMRCEE01B 104 43 0307-1601 40011041-			11	0307-1601	40011041-153	NX2227HK	683821			
TMRCEE01B	1MRCEE01B	1	12	0307-1601	40011041-154	NX2227HK	683821			
IMRCEE01B 5 12 0307-1601 40011041-156 NX2227HK 683821 IMRCEE01B 2 13 0307-1601 40011041-157 NX2227HK 683821 IMRCEE01B 4 13 0307-1601 40011041-158 NX2227HK 683821 IMRCEE01B 42 15 0307-1601 40011041-116 NX2227HK 683821 IMRCEE01B 60 15 0307-1601 40011041-111 NX2227HK 683821 IMRCEE01B 60 15 0307-1601 40011041-111 NX2227HK 683821 IMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 683821 IMRCEE01B 71 18 0307-1601 40011041-113 NX2227HK 683821 IMRCEE01B 90 19 0307-1601 40011041-133 NX2227HK 683821 IMRCEE01B 25 20 0307-1601 40011041-124 NX2227HK 683821 IMRCEE01B 25 20 0307-1601 40011041-124 NX2227HK 683821 IMRCEE01B 30 21 0307-1601 40011041-124 NX2227HK 683821 IMRCEE01B 30 21 0307-1601 40011041-108 NX2227HK 683821 IMRCEE01B 53 24 0307-1601 40011041-108 NX2227HK 683821 IMRCEE01B 53 24 0307-1601 40011041-104 NX2227HK 683821 IMRCEE01B 53 24 0307-1601 40011041-107 NX2227HK 683821 IMRCEE01B 56 29 0307-1601 40011041-107 NX2227HK 683821 IMRCEE01B 51 30 0307-1601 40011041-104 NX2227HK 683821 IMRCEE01B 51 30 0307-1601 40011041-124 NX2227HK 683821 IMRCEE01B 51 30 0307-1601 40011041-124 NX2227HK 683821 IMRCEE01B 17 30 0307-1601 40011041-195 NX2227HK 683821 IMRCEE01B 10 35 0307-1601 40011041-195 NX2227HK 683821 IMRCEE01B 10 35 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 118 35 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 118 35 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 119 36 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 119 36 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 110 43 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 104 43 0307-1601 40011041-107 NX2227HK 683821 IMRCEE01B 104 43 0307-1601 40011	1MRCEE01B	3	12	0307-1601	40011041-155	NX2227HK	683821			
IMRCEE01B	1MRCEE01B	5	12	0307-1601	40011041-156	NX2227HK	683821			
IMRCEE01B	1MRCEE01B	2	13	0307-1601	40011041-157	NX2227HK	683821			
IMRCEE01B 42 15 0307-1601 40011041-112 NX2227HK 683821	1MRCEE01B	4	13	0307-1601	40011041-158	NX2227HK	683821			
IMRCEE01B	1MRCEE01B	17	14	0307-1601	40011041-116	NX2227HK	683821			
IMRCEE01B 60 15 0307-1601 40011041-111 NX2227HK 683821		42	15	0307-1601	40011041-112	NX2227HK	683821			
Temporary Temp			15	0307-1601	40011041-111	NX2227HK	683821			
TMRCEE01B 90 19 0307-1601 40011041-168 NX2227HK 663821		71		0307-1601	40011041-173	NX2227HK	683821			
IMRCEE01B 25 20				0307-1601	40011041-168	NX2227HK	683821			
IMRCEE01B 30 21 0307-1601 40011041-115 NX2227HK 683821					40011041-124		683821			
TABRICEO Table T					40011041-115	NX2227HK	683821			
MRCEE01B 53 24 0307-1601 40011041-114 NX2227HK 683821					40011041-108	NX2227HK	683821			
MRCEE01B 101 24 0307-1601 40011041-167 NX2227HK 683821						NX2227HK	683821			
IMRCEE01B 58 29 0307-1601 40011041-104 NX2227HK 683821 IMRCEE01B 51 30 0307-1601 40011041-121 NX2227HK 683821 IMRCEE01B 60 31 0307-1601 40011041-131 NX2227HK 683821 IMRCEE01B 117 32 0307-1601 40011041-162 NX2227HK 683821 IMRCEE01B 96 33 0307-1601 40011041-195 NX2227HK 683821 IMRCEE01B 118 35 0307-1601 40011041-196 NX2227HK 683821 IMRCEE01B 120 35 0307-1601 40011041-161 NX2227HK 683821 IMRCEE01B 17 36 0307-1601 40011041-102 NX2227HK 683821 IMRCEE01B 17 36 0307-1601 40011041-122 NX2227HK 683821 IMRCEE01B 115 36 0307-1601 40011041-166 NX2227HK 683821 IMRCEE01B 110 37 0307-1601					40011041-167	NX2227HK	683821			
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1MRCEE01B 49 36 0307-1601 40011041-122 NX2227HK 683821 1MRCEE01B 115 36 0307-1601 40011041-160 NX2227HK 683821 1MRCEE01B 110 37 0307-1601 40011041-166 NX2227HK 683821 1MRCEE01B 43 38 0307-1601 40011041-107 NX2227HK 683821 1MRCEE01B 113 38 0307-1601 40011041-165 NX2227HK 683821 1MRCEE01B 49 40 0307-1601 40011041-123 NX2227HK 683821 1MRCEE01B 129 40 0307-1601 40011041-159 NX2227HK 683821 1MRCEE01B 130 41 0307-1601 40011041-182 NX2227HK 683821 1MRCEE01B 77 42 0307-1601 40011041-187 NX2227HK 683821 1MRCEE01B 104 43 0307-1601 40011041-181 NX2227HK 683821 1MRCEE01B 69 44 0307-1601				0307-1601	40011041-102	NX2227HK	683821			
1MRCEE01B 115 36 0307-1601 40011041-160 NX2227HK 683821 1MRCEE01B 110 37 0307-1601 40011041-166 NX2227HK 683821 1MRCEE01B 43 38 0307-1601 40011041-107 NX2227HK 683821 1MRCEE01B 113 38 0307-1601 40011041-165 NX2227HK 683821 1MRCEE01B 49 40 0307-1601 40011041-123 NX2227HK 683821 1MRCEE01B 129 40 0307-1601 40011041-159 NX2227HK 683821 1MRCEE01B 130 41 0307-1601 40011041-182 NX2227HK 683821 1MRCEE01B 77 42 0307-1601 40011041-172 NX2227HK 683821 1MRCEE01B 104 43 0307-1601 40011041-187 NX2227HK 683821 1MRCEE01B 120 43 0307-1601 40011041-171 NX2227HK 683821 1MRCEE01B 69 44 0307-1601			36	0307-1601	40011041-122	NX2227HK	683821			
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1MRCEE01B 43 38 0307-1601 40011041-107 NX2227HK 683821 1MRCEE01B 113 38 0307-1601 40011041-165 NX2227HK 683821 1MRCEE01B 49 40 0307-1601 40011041-123 NX2227HK 683821 1MRCEE01B 129 40 0307-1601 40011041-159 NX2227HK 683821 1MRCEE01B 130 41 0307-1601 40011041-182 NX2227HK 683821 1MRCEE01B 77 42 0307-1601 40011041-172 NX2227HK 683821 1MRCEE01B 104 43 0307-1601 40011041-187 NX2227HK 683821 1MRCEE01B 120 43 0307-1601 40011041-181 NX2227HK 683821 1MRCEE01B 69 44 0307-1601 40011041-171 NX2227HK 683821 1MRCEE01B 104 45 0307-1601 40011041-192 NX2227HK 683821 1MRCEE01B 114 47 0307-1601			37	0307-1601	40011041-166					
1MRCEE01B 113 38 0307-1601 40011041-165 NX2227HK 683821 1MRCEE01B 49 40 0307-1601 40011041-123 NX2227HK 683821 1MRCEE01B 129 40 0307-1601 40011041-159 NX2227HK 683821 1MRCEE01B 130 41 0307-1601 40011041-182 NX2227HK 683821 1MRCEE01B 77 42 0307-1601 40011041-172 NX2227HK 683821 1MRCEE01B 104 43 0307-1601 40011041-187 NX2227HK 683821 1MRCEE01B 120 43 0307-1601 40011041-171 NX2227HK 683821 1MRCEE01B 69 44 0307-1601 40011041-171 NX2227HK 683821 1MRCEE01B 104 45 0307-1601 40011041-192 NX2227HK 683821 1MRCEE01B 104 47 0307-1601 40011041-164 NX2227HK 683821 1MRCEE01B 116 47 0307-1601		43	38	0307-1601	40011041-107	NX2227HK	683821			
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1MRCEE01B 120 47 0307-1601 40011041-191 NX2227HK 683821 1MRCEE01B 122 47 0307-1601 40011041-190 NX2227HK 683821 1MRCEE01B 113 48 0307-1601 40011041-188 NX2227HK 683821		116	47	0307-1601						
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1MRCEE01B 113 48 0307-1601 40011041-188 NX2227HK 683821		122	47	0307-1601	40011041-190					
602034		113	48	0307-1601	40011041-188					
			49	0307-1601	40011041-175	NX2227HK	683821			

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1MRCEE01B	120	49	0307-1601	40011041-174	NX2227HK	683821
1MRCEE01B	27	50	0307-1601	40011041-117	NX2227HK	683821
1MRCEE01B	132	51	0307-1601	40011041-189	NX2227HK	683821
1MRCEE01B	95	52	0307-1601	40011041-194	NX2227HK	683821
1MRCEE01B	139	52	0307-1601	40011041-198	NX2227HK	683821
1MRCEE01B	141	52	0307-1601	40011041-7	NX2227HK	683821
1MRCEE01B	53	54	0307-1601	40011041-169	NX2227HK	683821
1MRCEE01B	129	54	0307-1601	40011041-5	NX2227HK	683821
1MRCEE01B	141	54	0307-1601	40011041-6	NX2227HK	683821
1MRCEE01B	32	55	0307-1601	40011041-118	NX2227HK	683821
1MRCEE01B	103	56	0307-1601	40011041-176	NX2227HK	683821
1MRCEE01B	141	56	0307-1601	40011041-1	NX2227HK	683821
1MRCEE01B	128	57	0307-1601	40011041-199	NX2227HK	683821
1MRCEE01B	144	57	0307-1601	40011041-8	NX2227HK	683821
1MRCEE01B	137	58	0307-1601	40011041-10	NX2227HK	683821
1MRCEE01B	130	59	0307-1601	40011041-2	NX2227HK	683821
1MRCEE01B	138	59	0307-1601	40011041-200	NX2227HK	683821
1MRCEE01B	144	59	0307-1601	40011041-14	NX2227HK	683821
1MRCEE01B	103	60	0307-1601	40011041-177	NX2227HK	683821
1MRCEE01B	113	60	0307-1601	40011047-13	NX2227HK	691280
1MRCEE01B	131	60	0307-1601	40011041-12	NX2227HK	683821
1MRCEE01B	110	.61	0307-1601	40011041-128	NX2227HK	683821
1MRCEE01B	132	61	0307-1601	40011041-13	NX2227HK	683821
1MRCEE01B	131	62	0307-1601	40011041-4	NX2227HK	683821
1MRCEE01B	139	62	0307-1601	40011041-19	NX2227HK	683821
1MRCEE01B	110	63	0307-1601	40011041-100	NX2227HK	683821
1MRCEE01B	144	63	0307-1601	40011041-9	NX2227HK	683821
1MRCEE01B	117	64	0307-1601	40011041-21	NX2227HK	683821
1MRCEE01B	129	64	0307-1601:	40011041-3	NX2227HK	683821
1MRCEE018	137	64	0307-1601	40011041-20	NX2227HK	683821
1MRCEE01B	139	64	0307-1601	40011041-18	NX2227HK	683821
1MRCEE01B	143	64	0307-1601	40011041-17	NX2227HK	683821
1MRCEE01B	96	65	0307-1601	40011041-197	NX2227HK	683821
1MRCEE01B	130	65	0307-1601	40011041-11	NX2227HK	683821
1MRCEE01B		65	0307-1601	40011041-16	NX2227HK	683821
1MRCEE01B	144	65	0307-1601	40011041-15	NX2227HK	683821
1MRCEE01B	146	65	0307-1601	40011041-39	NX2227HK	683821
1MRCEE01B	131	66	0307-1601	40011041-40	NX2227HK	683821
1MRCEE01B	137	66	0307-1601	40011041-37	NX2227HK	683821
1MRCEE01B	143	66	0307-1601	40011041-31	NX2227HK	683821
1MRCEE01B	130	67	0307-1601	40011041-43	NX2227HK	683821
1MRCEE01B	21	68	0307-1601	40011041-98	NX2227HK	683821
1MRCEE01B	111	68	0307-1601	40011041-42	NX2227HK	683821
1MRCEE01B	115	68	0307-1601	40011041-183	NX2227HK	683821
1MRCEE01B	141	68 .	0307-1601	40011041-22	NX2227HK	683821
1MRCEE01B	74	69	0307-1601	40011041-129	NX2227HK	683821
1MRCEE01B	102	69	0307-1601	40011041-184	NX2227HK	683821
1MRCEE01B	128	69	0307-1601	40011041-36	NX2227HK	683821
1MRCEE01B	134	69	0307-1601	40011041-35	NX2227HK	683821
1MRCEE01B	140	69	0307-1601	40011041-26	NX2227HK	683821
1MRCEE01B	144	69	0307-1601	40011041-34	NX2227HK	683821
						

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1MRCEE01B	125	70	0307-1601 :	40011041-25	NX2227HK	683821
1MRCEE01B	137	70	0307-1601	40011041-45	NX2227HK	683821
1MRCEE01B	108	71	0307-1601	40011047-12	NX2227HK	691280
1MRCEE01B	120	71	0307-1601	40011041-193	NX2227HK	683821
1MRCEE01B	122	71	0307-1601	40011041-41	NX2227HK	683821
1MRCEE01B	130	71	0307-1601	40011041-29	NX2227HK	683821
1MRCEE01B	67	72	0307-1601	40011041-64	NX2227HK	683821
1MRCEE01B	121	72	0307-1601	40011041-178	NX2227HK	683821
1MRCEE01B	129	72	0307-1601	40011041-30	NX2227HK	683821
1MRCEE01B	131	72	0307-1601	40011041-28	NX2227HK	683821
1MRCEE01B	110	73	0307-1601	40011041-38	NX2227HK	683821
1MRCEE01B	66	75	0307-1601	40011041-145	NX2227HK	683821
1MRCEE01B	146	75	0307-1601	40011041-27	NX2227HK	683821
1MRCEE01B	148	75	0307-1601	40011041-23	NX2227HK	683821
1MRCEE01B	104	77	0307-1601	40011041-186	NX2227HK	683821
1MRCEE01B	130	77	0307-1601	40011041-33	NX2227HK	683821
1MRCEE01B	144	77	0307-1601	40011041-24	NX2227HK	683821
1MRCEE01B	98	79	0307-1601	40011041-70	NX2227HK	683821
1MRCEE01B	104	79	0307-1601	40011041-75	NX2227HK	683821
1MRCEE01B	122	79	0307-1601	40011041-32	NX2227HK	683821
1MRCEE01B	134	79	0307-1601	40011041-44	NX2227HK	683821
1MRCEE01B	144	79	0307-1601	40011041-67	NX2227HK	683821
1MRCEE01B	148	79	0307-1601	40011041-66	NX2227HK	683821
1MRCEE01B	69	80	0307-1601	40011041-139	NX2227HK	683821
1MRCEE01B	101	80	0307-1601	40011041-76	NX2227HK	683821
1MRCEE01B	139	80	0307-1601	40011041-49	NX2227HK	683821
1MRCEE01B	64	81	0307-1601	40011041-130	NX2227HK	683821
1MRCEE01B	134	81	0307-1601	40011041-63	NX2227HK	683821
1MRCEE01B	137	82	0307-1601	40011041-60	NX2227HK	683821
1MRCEE01B	143	82	0307-1601	40011041-59	NX2227HK	683821
1MRCEE01B	122	83	0307-1601	40011041-46	NX2227HK	683821
1MRCEE01B	128	83 ,	0307-1601	40011041-69	NX2227HK	683821
1MRCEE01B	138	83	0307-1601	40011041-68	NX2227HK	683821
1MRCEE01B	133	84	0307-1601	40011041-61	NX2227HK	683821
1MRCEE01B	144	85	0307-1601	40011041-58	NX2227HK	683821
1MRCEE01B	148	85	0307-1601	40011041-87	NX2227HK	683821
1MRCEE01B	117	86	0307-1601	40011041-56	NX2227HK	683821
1MRCEE01B	44	87	0307-1601	40011041-138	NX2227HK	683821
1MRCEE01B	122	87	0307-1601	40011041-65	NX2227HK	683821
1MRCEE01B	144	87	0307-1601	40011041-82	NX2227HK	683821
1MRCEE01B	148	87	0307-1601	40011041-88	NX2227HK	683821
1MRCEE01B	141	88	0307-1601	40011041-57	NX2227HK	683821
1MRCEE01B	46	89	0307-1601	40011041-144	NX2227HK	683821
1MRCEE01B	144	89	0307-1601	40011041-53	NX2227HK	683821
1MRCEE01B	81	90	0307-1601	40011041-71	NX2227HK	683821
1MRCEE01B	137	90	0307-1601	40011041-55	NX2227HK	683821
1MRCEE01B	120	91	0307-1601	40011041-52	NX2227HK	683821
1MRCEE01B	148	91	0307-1601	40011041-73	NX2227HK	683821
1MRCEE01B	147	92	0307-1601	40011041-83	NX2227HK	683821
1MRCEE01B	96	95	0307-1601	40011041-179	NX2227HK	683821
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STEAM GENERATOR 1MRCEE01B "HOT LEG"

1MRCEE01B	122	95	0307-1601	40011041-48	NX2227HK	683821
1MRCEE01B	138	95	0307-1601	40011041-47	NX2227HK	683821
1MRCEE01B	96	97	0307-1601	40011041-51	NX2227HK	683821
1MRCEE01B	132	97	0307-1601	40011041-54	NX2227HK	683821
1MRCEE01B	138	97	0307-1601	40011041-79	NX2227HK	683821
1MRCEE01B	141	98	0307-1601	40011041-78	NX2227HK	683821
1MRCEE01B	130	99	0307-1601	40011041-85	NX2227HK	683821
1MRCEE01B	138	99	0307-1601	40011041-92	NX2227HK	683821
1MRCEE01B	148	99	0307-1601	40011041-86	NX2227HK	683821
1MRCEE01B	109	100	0307-1601	40011041-81	NX2227HK	683821
1MRCEE01B	135	102	0307-1601	40011041-84	NX2227HK	683821
1MRCEE01B	132	103	0307-1601	40011041-77	NX2227HK	683821
	132	105	0307-1601	40011041-93	NX2227HK	683821
1MRCEE01B	140	105	0307-1601	40011041-89	NX2227HK	683821
1MRCEE01B	144	105	0307-1601	40011041-88	NX2227HK	683821
1MRCEE01B	51		0307-1601	40011041-74	NX2227HK	683821
1MRCEE01B	64	106 107	0307-1601	40011041-02	NX2227HK	683821
1MRCEE01B	70	107	0307-1601	40011041-140	NX2227HK	683821
1MRCEE01B	45	110	0307-1601	40011041-148	NX2227HK	683821
1MRCEE01B	45 51	110	0307-1601	40011041-133	NX2227HK	683821
1MRCEE01B	69	110	0307-1601	40011041-132	NX2227HK	683821
1MRCEE01B			0307-1601	40011041-133	NX2227HK	683821
1MRCEE01B	141	110	0307-1601	40011041-50	NX2227HK	683821
1MRCEE01B	40	111		40011041-30	NX2227HK	683821
1MRCEE01B	54	111	0307-1601	40011041-147	NX2227HK	683821
1MRCEE01B	66	111	0307-1601	40011041-134	NX2227HK	683821
1MRCEE01B	70	111	0307-1601	40011041-136	NX2227HK	683821 ^{\cdot}
1MRCEE01B	53 60	112	0307-1601 0307-1601	40011041-141	NX2227HK	683821
1MRCEE018		113 113	0307-1601	40011041-131	NX2227HK	683821
1MRCEE01B	64		0307-1601	40011041-143	NX2227HK	683821
1MRCEE01B	122	113 114	0307-1601	40011041-146	NX2227HK	683821
1MRCEE01B	53		0307-1601	40011041-148	NX2227HK	683821
1MRCEE01B	97	114	0307-1601	40011041-78	NX2227HK	683821
1MRCEE01B	117	114	0307-1601	40011041-78	NX2227HK	691280
1MRCEE01B	100	115 115	0307-1601	40011047-32	NX2227HK	691280
1MRCEE01B	144	117	0307-1601	40011047-19	NX2227HK	683821
1MRCEE01B	48 62	119	0307-1601	40011041-142	NX2227HK	683821
1MRCEE01B	33	120	0307-1601	40011041-120	NX2227HK	683821
1MRCEE01B	64	121	0307-1601	40011041-103	NX2227HK	683821
1MRCEE01B	45	124	0307-1601	40011041-127	NX2227HK	683821
1MRCEE01B	129	124	0307-1601	40011047-37	NX2227HK	691280
1MRCEE01B	137	124	0307-1601	40011047-14	NX2227HK	691280
1MRCEE01B	50	125	0307-1601	40011041-125	NX2227HK	683821
1MRCEE01B	60	125	0307-1601	40011041-149	NX2227HK	683821
1MRCEE01B	122	125	0307-1601	40011047-18	NX2227HK	691280
1MRCEE01B	130	127	0307-1601	40011047-20	NX2227HK	691280
1MRCEE01B	91	130	0307-1601	40011047-34	NX2227HK	691280
1MRCEE01B	95	130	0307-1601	40011047-15	NX2227HK	691280
1MRCEE01B	133	130	0307-1601	40011047-17	NX2227HK	691280
1MRCEE01B	135	130	0307-1601	40011047-27	NX2227HK	691280
	122	131	0307-1601	40011047-26	NX2227HK	691280
1MRCEE01B	144	131	0301-1001	70011077-20	17/6661111/	

STEAM GENERATOR 1MRCEE01B

DFWO 2458003

"HOT LEG"

1MRCEE01B	75 142	132	0307-1601	40011047-81	NX2227HK	691280
1117077010	142		,, ,,	40011,041-01	14/44411111	031200
1MRCEE01B		133	0307-1601	40011047-28	NX2227HK	691280
1MRCEE01B	27	136	0307-1601	40011047-82	NX2227HK	691280
1MRCEE01B	117	136	0307-1601	40011047-29	NX2227HK	691280
1MRCEE01B	142	137	0307-1601	40011047-36	NX2227HK	691280
1MRCEE01B	95	138	0307-1601	40011047-35	NX2227HK	691280
1MRCEE01B	104	141	0307-1601	40011047-25	NX2227HK	691280
1MRCEE01B	110	141	0307-1601	40011047-16	NX2227HK	691280
1MRCEE01B	133	142	0307-1601	40011047-33	NX2227HK	691280
1MRCEE01B	60	145	0307-1601	40011047-83	NX2227HK	691280
1MRCEE01B	122	145	0307-1601	40011047-21	NX2227HK	691280
1MRCEE01B	121	146	0307-1601	40011047-30	NX2227HK	691280
1MRCEE01B	60	147	0307-1601	40011047-88	NX2227HK	691280
1MRCEE01B	131	148	0307-1601	40011047-31	NX2227HK	691280
1MRCEE01B	61	150	0307-1601	40011047-85	NX2227HK	691280
1MRCEE01B	51	152	0307-1601	40011047-84	NX2227HK	691280
1MRCEE018	122	153	0307-1601	40011047-23	NX2227HK	691280
1MRCEE01B	121	154	0307-1601	40011047-22	NX2227HK	691280
1MRCEE01B	60	155	0307-1601	40011041-99	NX2227HK	683821
1MRCEE01B	76	155	0307-1601	40011047-87	NX2227HK	691280
1MRCEE01B	87	156	0307-1601	40011041-119	NX2227HK	683821
1MRCEE01B	115	158	0307-1601	40011047-24	NX2227HK	691280
1MRCEE01B	58	159	0307-1601	40011041-95	NX2227HK	683821
1MRCEE01B	60	159	0307-1601	40011047-80	NX2227HK	691280
1MRCEE01B	90	159	0307-1601	40011041-110	NX2227HK	683821
1MRCEE01B	70	161	0307-1601	40011047-11	NX2227HK	691280
1MRCEE01B	54	163	0307-1601	40011041-109	NX2227HK	683821
1MRCEE01B	49	164	0307-1601	40011041-94	NX2227HK	683821
1MRCEE01B	32	177	0307-1601	40011041-101	NX2227HK	683821
1MRCEE01B	25	178	0307-1601	40011041-96	NX2227HK	683821
1MRCEE01B	64	181	0307-1601	40011047-86	NX2227HK	691280
1MRCEE01B	12	189	0307-1601	40011041-97	NX2227HK	683821

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID <u>IMRCEE01B</u> 2. Code Class <u>ASME SECTION III</u> ,	, CLASS 1						
3. Item Description STEAM GENERATOR #2							
4. N-5 Package Number <u>1RC01-4</u> 5. W.O. Number <u>2458023</u>							
6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA							
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA							
8. Work Description INSTALL WESTINGHOUSE ROLL PLUGS IN 1MRCEE01B COLD LEG TENG-DFWO 2458004 EVALUATION AND DISPOSITION.	TUBES						
9. ISI Flaw NDE Method of Flaw Detection <u>EDDY CURRENT</u> Report Number <u>1R10 EDDY CURRENT EX</u>	ZAM PEPOPT						
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.	AM REPORT						
EVALUATION PER ENG-DFWO 2458004.							
•							
11. Repair/Replacement Work Organization WESTINGHOUSE							
12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER A	ADDENDA						
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADI	DENDA						
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA	<u></u>						
15. Preservice Inspection Required.							
o6/24/02 If required, include a step in the W.O. to perform Preservice Inspection	n.						
16. ASME Section XI Pressure Test Required YES NO							
06/24/02 If required, include a step in the W.O. for ISI & ANII Inspection.							
Initial Date 06/24/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing	ng the component.						
Date 06/24/02 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 SE							
19. Planner Was Signature O6/24/02 Print Name MICHAEL B. NEW!	ELL						
20. ISI Engineer alan Monow 8/24/02 Print Name Alan ma	orrow						
Signature Date .	OM						
21. ANII Signature Print Name ROBERT HOGSTRO	O11/1						

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona</u>	Owner Arizona Public Service Company, et. al.						08/20/22	· · · · · · · · · · · · · · · · · · ·
	53999, Phoenix,					1	of	2
2. Plant Palo Ver	de Nuclear Genera	ting Station		• 	Unit		1	
	Wintersburg Rd., T	ame Tonopah, Arizo				1		3
		ddress	*					
3. Work Performed by	WESTINGHOU	ISE ame	i		Type Co	Type Code Symbol Stamp None		
	, "	aine			Authoriza	ation N	o1	N/A
911 W M		Expiration	n Date	N	//A			
	DEACTO	datess R COOLANT	; •					
4. Identification of Sys	stem <u>REACTO</u>	K COOLAIVI						
5. (a) Applicable Cor	nstruction Code <u>ASM</u>	IE SEC III CL	<u>.1</u> 19 <u>71</u> I	Edition,	<u>W;73</u>	_ Adde	enda, N/A	_ Code Case
(b) Applicable Edit	tion of Section XI Utiliz	zed for Repairs or	Replacemen	its . 19	92 Edit	ion, _	1992 Add	enda
					-			
6. Identification of Co	mponents Repaired or	r Replaced and R	leplacement (Compo	nents			
Name of	Name of	Manufacturer	National	0	ther	Year	Repaired or	ASME Code Stamped
Item	Manufacturer	Serial No.	Board No.	Ident	ification	Built	Replacemen	nt (Yes or No)
S/G	CE	78273-2	22500	1MR	CEE01B	1978	Replacement	Yes
					 			
					·····			·
		<u> </u>						
				<u></u>			<u> </u>	·
7 Description of Wor	k PLUG STEAM	GENERATO!	R 12 COLI	LEC	TUBE	S PEI	R DFWO 24	58004.
7. Description of two	K 1100 5121213	;						_
8. Test Conducted:	Hydrostatic F	Pneumatic 🔲	Nominal Ope	erating	Pressure	Q	Exempt 🗹	N-416-1 🔲
	Other 🔲 .	Pressure	psi			Test T	emp.	°F
		·			-			
NOTE: Sunniemen	ntal sheets in form of	f lists, sketches.	or drawing	s may	be used	, provi	ded (1) size is	8 1/2 x 11 in.,
(2) information in it	tems 1 through 6 on	this report is in	cluded on e	ach:sh	eet, and	(3) ea	ich sheet is nu	ımbered and
the number of shee	ets is recorded at the	e top of this for	∏. ·					

		FORM NIS-2 ((Back)	
Remarks	SEE DFWO 2458004	FOR TUBES PLUGGED (PLUGGING LIST ATTACHED).
				<u></u>
		X.	· -	
		<u> </u>		
		CERTIFICATE OF CO	MPLIANCE	
	y that the statements r SME Code, Section XI.		ct and this replacement confor	ms to the rules
	•			
	de Symbol Stamp	,		
		•	Expiration Date	
Signed <	7511-	SK CONJULTING	ENIR Date 10	-21-02
	lersigned, holding a va		ः e National Board of Boiler and Pa	essure Vesse
		vince of Arizona and en	nployed byHSB CT	
the period belief, the	d <u>\$-20-02</u> • Owner has performed	, have inspected the compo	onents described in this Owner's and state that to the best of my k rrective measures described in t	nowledge and
the period belief, the Report in By signin- concernir neither th	d 8-20-02 e Owner has performed accordance with the region of this certificate, neithing the examinations are inspector nor his emitted.	_ , have inspected the composite	onents described in this Owner's and state that to the best of my karrective measures described in tode, Section XI. Oyer makes any warranty, expressible in this Owner's Report. Further manner for any personal injury o	nowledge and his Owner's ssed or implie rthermore,
the period belief, the Report in By signing concerning neither the	d 8-20-02 e Owner has performed accordance with the region of this certificate, neithing the examinations are inspector nor his emitted.	_ , have inspected the composite	onents described in this Owner's and state that to the best of my karrective measures described in tode, Section XI. Oyer makes any warranty, expressible in this Owner's Report. Further manner for any personal injury o	nowledge and his Owner's ssed or implie rthermore, r property
the period belief, the Report in By signin- concernir neither th damage of	e Owner has performed accordance with the registres certificate, neithing the examinations are inspector nor his empor a loss of any kind are	_ , have inspected the composite	onents described in this Owner's and state that to the best of my karrective measures described in tode, Section XI. oyer makes any warranty, expressibed in this Owner's Report. Furnanner for any personal injury of this inspection.	nowledge and his Owner's ssed or implie rthermore, r property

STEAM GENERATOR 1MRCEE01B "COLD LEG"

				COLD LEG	N APPERLIE	
				XI-REPAIR/REF		
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
1MRCEE01B	30	7	0307-1601	40011045-23	NX2227HK	683821
1MRCEE01B	25	8	0307-1601	40011045-26	NX2227HK	683821
1MRCEE01B	1	10	0307-1601	40011045-20	NX2227HK	683821
1MRCEE01B	3	10	0307-1601	40011045-8	NX2227HK	683821
1MRCEE01B	2	11	0307-1601	40011045-18	NX2227HK	683821
1MRCEE01B	4	11	0307-1601	40011045-45	NX2227HK	683821
1MRCEE01B	1	12	0307-1601	40011045-10	NX2227HK	683821
1MRCEE01B	3	12	0307-1601	40011045-24	NX2227HK	683821
1MRCEE01B	5	12	0307-1601	40011045-19	NX2227HK	683821
1MRCEE01B	2	13	0307-1601	40011045-17	NX2227HK	683821
1MRCEE01B	4	13	0307-1601	40011045-22	NX2227HK	683821
1MRCEE01B	17	14	0307-1601	40011045-38	NX2227HK	683821
1MRCEE01B	42	15	0307-1601	40011045-39	NX2227HK	683821
1MRCEE01B	60	15	0307-1601	40011045-1	NX2227HK	683821
1MRCEE01B	71	18	0307-1601	40011045-35	NX2227HK	683821
1MRCEE01B	90	19	0307-1601	40011045-34	NX2227HK	683821
1MRCEE01B	25	20	0307-1601	40011045-27	NX2227HK	683821
1MRCEE01B	30	21	0307-1601	40011045-6	NX2227HK	683821
1MRCEE01B	41	24	0307-1601	40011045-7	NX2227HK	683821
1MRCEE01B	53	24	0307-1601	40011045-12	NX2227HK	683821
1MRCEE01B	101	24	0307-1601	40011045-165	NX2227HK	683821
1MRCEE01B	58	29	0307-1601	40011045-5	NX2227HK	683821
1MRCEE01B	51	30	0307-1601	40011045-2	NX2227HK	683821
1MRCEE01B	60	31	0307-1601	40011045-3	NX2227HK	683821
1MRCEE01B	117	32	0307-1601	40011045-151	NX2227HK	683821
1MRCEE01B	96	33	0307-1601	40011045-168	NX2227HK	683821
1MRCEE01B	118	35	0307-1601	40011045-137	NX2227HK	683821
1MRCEE01B	120	35	0307-1601	40011045-157	NX2227HK	683821
1MRCEE01B	17	36	0307-1601	40011045-16	NX2227HK	683821
1MRCEE01B	49	36	0307-1601	40011045-21	NX2227HK	683821
1MRCEE01B	115	36	0307-1601	40011045-161	NX2227HK	683821
1MRCEE01B	110	37	0307-1601	40011045-147	NX2227HK	683821
1MRCEE01B	43	38	0307-1601	40011045-13	NX2227HK	683821
1MRCEE01B	113	38	0307-1601	40011045-158	NX2227HK	683821
1MRCEE01B	49	40	0307-1601	40011045-9	NX2227HK	683821
1MRCEE01B		40	0307-1601	40011045-166	NX2227HK	683821
1MRCEE01B		41	0307-1601	40011045-150	NX2227HK	683821
1MRCEE01B	77	42	0307-1601	40011045-14	NX2227HK	683821
1MRCEE01B	104	43	0307-1601	40011045-164	NX2227HK	683821
1MRCEE01B		43	0307-1601	40011045-160	NX2227HK	683821
1MRCEE01B	69	44	0307-1601	40011045-4	NX2227HK	683821
1MRCEE01B	104	45	0307-1601	40011045-167	NX2227HK	683821
1MRCEE01B	60	47 .	0307-1601	40011045-15	NX2227HK	683821
1MRCEE01B	114	47	0307-1601	40011045-153	NX2227HK	683821
1MRCEE01B		47	0307-1601	40011045-162	NX2227HK	683821
1MRCEE01B		47	0307-1601	40011045-148	NX2227HK	683821
1MRCEE01B		47	0307-1601	40011045-163	NX2227HK	683821
1MRCEE01B		48	0307-1601	40011045-91	NX2227HK	683821
1MRCEE01B		49	0307-1601	40011045-31	NX2227HK	683821

STEAM GENERATOR 1MRCEE01B "COLD LEG"

				OOLD LLG		
1MRCEE01B	120	49	0307-1601	40011045-72	NX2227HK	683821
1MRCEE01B	27	50	0307-1601	40011045-36	NX2227HK	683821
1MRCEE01B	132	51	0307-1601	40011045-77	NX2227HK	683821
1MRCEE01B	95	52	0307-1601	40011045-74	NX2227HK	683821
1MRCEE01B	139	52	0307-1601	40011045-96	NX2227HK	683821
1MRCEE01B	141	52	0307-1601	40011045-81	NX2227HK	683821
1MRCEE01B	53	54	0307-1601	40011045-29	NX2227HK	683821
1MRCEE01B	129	54	0307-1601	40011045-78	NX2227HK	683821
1MRCEE01B	141	54	0307-1601	40011045-86	NX2227HK	683821
1MRCEE01B	32	55	0307-1601	40011045-41	NX2227HK	683821
1MRCEE01B	103	56	0307-1601	40011045-75	NX2227HK	683821
1MRCEE01B	141	56	0307-1601	40011045-76	NX2227HK	683821
1MRCEE01B	128	57	0307-1601	40011045-90	NX2227HK	683821
1MRCEE01B	144	57	0307-1601	40011045-89	NX2227HK	683821
1MRCEE01B	137	58	0307-1601	40011045-84	NX2227HK	683821
1MRCEE01B	130	59	0307-1601	40011045-59	NX2227HK	683821
1MRCEE01B	138	59	0307-1601	40011045-60	NX2227HK	683821
1MRCEE01B	144	59	0307-1601	40011045-62	NX2227HK	683821
1MRCEE01B	103	60	0307-1601	40011045-135	NX2227HK	683821
1MRCEE01B	113	60	0307-1601	40011045-88	NX2227HK	683821
1MRCEE01B	131	60	0307-1601	40011045-64	NX2227HK	683821
1MRCEE01B	110	61	0307-1601	40011045-82	NX2227HK	683821
1MRCEE01B	132	61	0307-1601	40011045-69	NX2227HK	683821
1MRCEE01B	131	62	0307-1601	40011045-65	NX2227HK	683821
1MRCEE01B	139	62	0307-1601	40011045-67	NX2227HK	683821
1MRCEE01B	110	63	0307-1601	40011045-93	NX2227HK	683821
1MRCEE01B	144	63	0307-1601	40011045-68	NX2227HK	683821
1MRCEE01B	117	64	0307-1601	40011045-70	NX2227HK	683821
1MRCEE01B	129	64	0307-1601	40011045-71	NX2227HK	683821
1MRCEE01B	137	64	0307-1601	40011045-50	NX2227HK	683821
1MRCEE01B	139	64	0307-1601	40011045-54	NX2227HK	683821
1MRCEE01B	143	64	0307-1601	40011045-66	NX2227HK	683821
1MRCEE01B	96	65	0307-1601	40011045-136	NX2227HK	683821
1MRCEE01B	130	65	0307-1601	40011045-61	NX2227HK	683821
1MRCEE01B	132	65	0307-1601	40011045-52	NX2227HK	683821
1MRCEE01B	144	65	0307-1601	40011045-53	NX2227HK	683821
1MRCEE01B	146	65	0307-1601	40011045-55	NX2227HK	683821
1MRCEE01B	131	66	0307-1601	40011045-56	NX2227HK	683821
1MRCEE01B	137	66	0307-1601	40011045-57	NX2227HK	683821
1MRCEE01B	143	66	0307-1601	40011045-58	NX2227HK	683821
1MRCEE01B	130	67	0307-1601	40011045-49	NX2227HK	683821
1MRCEE01B	21	68	0307-1601	40011047-195	NX2227HK	691280
1MRCEE01B	111	68	0307-1601	40011045-51	NX2227HK	683821
1MRCEE01B	115	68	0307-1601	40011045-80	NX2227HK	683821
1MRCEE01B	141	68	0307-1601	40011045-63	NX2227HK	683821
1MRCEE01B	74	69	0307-1601	40011045-179	NX2227HK	683821
1MRCEE01B	102	69	0307-1601	40011045-92	NX2227HK	683821
1MRCEE01B	128	69	0307-1601	40011045-47	NX2227HK	683821
1MRCEE01B	134	69	0307-1601	40011045-42	NX2227HK	683821
1MRCEE01B	140	69	0307-1601	40011045-25	NX2227HK	683821
1MRCEE01B	144	69	0307-1601	40011045-46	NX2227HK	683821
						

STEAM GENERATOR 1MRCEE01B "COLD LEG"

				OOLD LLG		
1MRCEE01B	87	70	0307-1601	40011045-132	NX2227HK	683821
1MRCEE01B	125	70	0307-1601	40011045-48	NX2227HK	683821
1MRCEE01B	137	70	0307-1601	40011045-40	NX2227HK	683821
1MRCEE01B	108	71	0307-1601	40011045-144	NX2227HK	683821
1MRCEE01B	120	71	0307-1601	40011045-94	NX2227HK	683821
1MRCEE01B	122	71	0307-1601	40011045-30	NX2227HK	683821
1MRCEE01B	130	71	0307-1601	40011045-32	NX2227HK	683821
1MRCEE01B	67	72	0307-1601	40011045-190	NX2227HK	683821
1MRCEE01B	121	72	0307-1601	40011045-79	NX2227HK	683821
1MRCEE01B	129	72	0307-1601	40011045-37	NX2227HK	683821
1MRCEE01B	131	72	0307-1601	40011045-28	NX2227HK	683821
1MRCEE01B	110	73	0307-1601	40011045-44	NX2227HK	683821
1MRCEE01B	66	75	0307-1601	40011045-177	NX2227HK	683821
1MRCEE01B	146	75	0307-1601	40011045-33	NX2227HK	683821
1MRCEE01B	148	75	0307-1601	40011045-43	NX2227HK	683821
1MRCEE01B	104	77	0307-1601	40011045-126	NX2227HK	683821
1MRCEE01B	130	77	0307-1601	40011045-83	NX2227HK	683821
1MRCEE01B	144	77	0307-1601	40011045-85	NX2227HK	683821
1MRCEE01B	98	79	0307-1601	40011045-122	NX2227HK	683821
1MRCEE01B	104	79	0307-1601	40011045-133	NX2227HK	683821
1MRCEE01B	122	79	0307-1601	40011045-73	NX2227HK	683821
1MRCEE01B	134	79	0307-1601	40011045-87	NX2227HK	683821
1MRCEE01B	144	79	0307-1601	40011045-95	NX2227HK	683821
1MRCEE01B	148	79	0307-1601	40011045-104	NX2227HK	683821
1MRCEE01B	69	80	0307-1601	40011045-146	NX2227HK	683821
1MRCEE01B	101	80	0307-1601	40011045-127	NX2227HK	683821
1MRCEE01B	139	80	0307-1601	40011045-101	NX2227HK	683821
1MRCEE01B	64	81	0307-1601	40011045-152	NX2227HK	683821
1MRCEE01B	134	81	0307-1601	40011045-102	NX2227HK	683821
1MRCEE01B	137	82	0307-1601	40011045-103	NX2227HK	683821
1MRCEE01B	143	82	0307-1601	40011045-108	NX2227HK	683821
1MRCEE01B	122	83	0307-1601	40011045-107	NX2227HK	683821
1MRCEE01B	128	83	0307-1601	40011045-105	NX2227HK	683821
1MRCEE01B	138	83	0307-1601	40011045-106	NX2227HK	683821
1MRCEE01B	133	84	0307-1601	40011045-117	NX2227HK	683821
1MRCEE01B	144	85	0307-1601	40011045-99	NX2227HK	683821
1MRCEE01B	148	85	0307-1601	40011045-113	NX2227HK	683821
1MRCEE01B	117	86	0307-1601	40011045-110	NX2227HK	683821
1MRCEE01B	44	87	0307-1601	40011045-191	NX2227HK	683821
1MRCEE01B	122	87	0307-1601	40011045-97	NX2227HK	683821
1MRCEE01B	144	87	0307-1601	40011045-119	NX2227HK	683821
1MRCEE01B	148	87	0307-1601	40011045-120	NX2227HK	683821
1MRCEE01B	141	88	0307-1601	40011045-109	NX2227HK	683821
1MRCEE01B	46	89	0307-1601	40011045-170	NX2227HK	683821
1MRCEE01B	144	89	0307-1601	40011045-115	NX2227HK	683821
1MRCEE01B	81	90	0307-1601	40011045-131	NX2227HK	683821
1MRCEE01B	137	90	0307-1601	40011045-112	NX2227HK	683821
1MRCEE01B	120	91	0307-1601	40011045-111	NX2227HK	683821
1MRCEE01B	148	91	0307-1601	40011045-141	NX2227HK	683821
1MRCEE01B	147	92	0307-1601	40011045-98	NX2227HK	683821
1MRCEE01B	96	95	0307-1601	40011045-121	NX2227HK	683821

STEAM GENERATOR 1MRCEE01B "COLD LEG"

1MRCEE01B	122	95	0307-1601	40011045-100	NX2227HK	683821
1MRCEE01B	138	95	0307-1601	40011045-118	NX2227HK	683821
1MRCEE01B	96	97	0307-1601	40011045-143	NX2227HK	683821
1MRCEE01B	132	97	0307-1601	40011045-114	NX2227HK	683821
1MRCEE01B	138	97	0307-1601	40011045-116	NX2227HK	683821
1MRCEE01B	141	98	0307-1601	40011045-140	NX2227HK	683821
1MRCEE01B	130	99	0307-1601	40011045-142	NX2227HK	683821
1MRCEE01B	138	99	0307-1601	40011045-128	NX2227HK	683821
1MRCEE01B	148	99	0307-1601	40011045-193	NX2227HK	683821
1MRCEE01B	109	100	0307-1601	40011045-130	NX2227HK	683821
1MRCEE01B	135	102	0307-1601	40011045-124	NX2227HK	683821
1MRCEE01B	132	103	0307-1601	40011045-125	NX2227HK	683821
1MRCEE01B	132	105	0307-1601	40011045-139	NX2227HK	683821
1MRCEE01B	140	105	0307-1601	40011045-138	NX2227HK	683821
1MRCEE01B	144	105	0307-1601	40011047-6	NX2227HK	691280
1MRCEE01B	51	106	0307-1601	40011045-196	NX2227HK	683821
1MRCEE01B	64	107	0307-1601	40011045-154	NX2227HK	683821
1MRCEE01B	70	109	0307-1601	40011045-155	NX2227HK	683821
1MRCEE01B	45	110	0307-1601	40011045-171	NX2227HK	683821
1MRCEE01B	51	110	0307-1601	40011045-188	NX2227HK	683821
1MRCEE01B	69	110	0307-1601	40011045-156	NX2227HK	683821
1MRCEE01B	141	110	0307-1601	40011045-195	NX2227HK	683821
1MRCEE01B	40	111	0307-1601	40011045-173	NX2227HK	683821
1MRCEE01B	54	111	0307-1601	40011045-185	NX2227HK	683821
1MRCEE01B	66	111	0307-1601	40011045-159	NX2227HK	683821
1MRCEE01B	70	111	0307-1601	40011045-149	NX2227HK	683821
1MRCEE01B	53	112	0307-1601	40011045-184	NX2227HK	683821
1MRCEE01B	60	113	0307-1601	40011045-145	NX2227HK	683821.
1MRCEE01B	64	113	0307-1601	40011045-192	NX2227HK	683821
1MRCEE01B	122	113	0307-1601	40011045-123	NX2227HK	683821
1MRCEE01B	53	114	0307-1601	40011045-187	NX2227HK	683821
1MRCEE01B	97	114	0307-1601	40011045-134	NX2227HK	683821
1MRCEE01B	117	114	0307-1601	40011045-129	NX2227HK	683821
1MRCEE01B	100	115	0307-1601	40011045-176	NX2227HK	683821
1MRCEE01B	144	115	0307-1601	40011047-45	NX2227HK	691280
1MRCEE01B	48	117	0307-1601	40011045-169	NX2227HK	683821
1MRCEE01B	62	119	0307-1601	40011045-181	NX2227HK	683821
1MRCEE01B	33	120	0307-1601	40011045-172	NX2227HK	683821
1MRCEE01B	64	121	0307-1601	40011045-186	NX2227HK	683821
1MRCEE01B	45	124	0307-1601	40011045-175	NX2227HK	683821
1MRCEE01B	129	124	0307-1601	40011047-41	NX2227HK	691280
1MRCEE01B	137	124	0307-1601	40011047-40	NX2227HK	691280
1MRCEE01B	50	125	0307-1601	40011045-174	NX2227HK	683821
1MRCEE01B	60	125	0307-1601	40011045-189	NX2227HK	683821
1MRCEE01B	122	125	0307-1601	40011047-39	NX2227HK	691280
1MRCEE01B	130	127	0307-1601	40011047-38	NX2227HK	691280
1MRCEE01B	91	130	0307-1601	40011045-198	NX2227HK	683821
1MRCEE01B	95	130	0307-1601	40011047-4	NX2227HK	691280
1MRCEE01B	133	130	0307-1601	40011047-44	NX2227HK	691280
1MRCEE01B	135	130	0307-1601	40011045-199	NX2227HK	683821
1MRCEE01B	122	131	0307-1601	40011047-8	NX2227HK	691280
INITOEEDID	144	101	1001-1001			

STEAM GENERATOR 1MRCEE01B

DFWO 2458004

"COLD LEG"

			*	OOLD LLO		
1MRCEE01B	75	132	0307-1601	40011045-178	NX2227HK	683821
1MRCEE01B	142	133	0307-1601	40011047-5	NX2227HK	691280
1MRCEE01B	27	136	0307-1601	40011045-200	NX2227HK	683821
1MRCEE01B	117	136	0307-1601	40011045-197	NX2227HK	683821
1MRCEE01B	142	137	0307-1601	40011047-1	NX2227HK	691280
1MRCEE01B	95	138	0307-1601	40011047-7	NX2227HK	691280
1MRCEE01B	104	141	0307-1601	40011047-71	NX2227HK	691280
1MRCEE01B	110	141	0307-1601	40011047-2	NX2227HK	691280
1MRCEE01B	133	142	0307-1601	40011047-3	NX2227HK	691280
1MRCEE01B	60	145	0307-1601	40011047-75	NX2227HK	691280
1MRCEE01B	122	145	0307-1601	40011047-79	NX2227HK	691280
1MRCEE01B	121	146	0307-1601	40011047-43	NX2227HK	691280
1MRCEE01B	60	147	0307-1601	40011047-76	NX2227HK	691280
1MRCEE01B	131	148	0307-1601	40011047-10	NX2227HK	691280
1MRCEE01B	61	150	0307-1601	40011047-47	NX2227HK	691280
1MRCEE01B	51	152	0307-1601	40011047-68	NX2227HK	691280
1MRCEE01B	122	153	0307-1601	40011047-70	NX2227HK	691280
1MRCEE01B	121	154	0307-1601	40011047-48	NX2227HK	691280
1MRCEE01B	60	155	0307-1601	40011047-67	NX2227HK	691280
1MRCEE01B	76	155	0307-1601	40011047-69	NX2227HK	691280
1MRCEE01B	87	156	0307-1601	40011047-74	NX2227HK	691280
1MRCEE01B	115	158	0307-1601	40011047-42	NX2227HK	691280
1MRCEE01B	58	159	0307-1601	40011047-77	NX2227HK	691280
1MRCEE01B	60	159	0307-1601	40011047-73	NX2227HK	691280
1MRCEE01B	90	159	0307-1601	40011047-46	NX2227HK	691280
1MRCEE01B	70	161	0307-1601	40011047-78	NX2227HK	691280
1MRCEE01B	54	163	0307-1601	40011045-180	NX2227HK	683821
1MRCEE01B	49	164	0307-1601	40011047-72	NX2227HK	691280
1MRCEE01B	32	177	0307-1601	40011045-183	NX2227HK	683821
1MRCEE01B	25	178	0307-1601	40011045-194	NX2227HK	683821
1MRCEE01B	64	181	0307-1601	40011045-11	NX2227HK	683821
1MRCEE01B	12	189	0307-1601	40011047-9	NX2227HK	691280

ASME SECTION XI – REPAIR / REPLACEMENT								
1. Component ID 1PSGEL002	į	2. Code Class ASM	E Section III Class 2					
. Item Description: Main Ste	am Feedwater SG# 1							
4. N-5 Data Package Number:	<u>1SG01-1</u>	5. W.O. Number: 24	<u>58123</u>					
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda								
_	7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda							
	3. Work Description: Replace a section of 14" pipe and fittings on line 1PSGEL002 with > 0.1% Chrome content materials. Ref. 01-P-SGF-119.							
9. 🔲 ISI Flaw	D. ISI Flaw NDE Method of Flaw Detection:							
	Rep	ort Number:		•				
10. Evaluation of the suitability Replacement i effect of floor	10. Evaluation of the suitability of this work as per the requirements of IWA-4150: Replacement with more compain resistant material to counter effect of flow accelerated corrosion.							
 12. Replacement Items Construction 13. Repair/Replacement Activition 14. ASME Section XI Code/Economics 15. Preservice Inspection Requirement 	11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: ASME Section III Class 2, 1974 w/Winter 1975 13. Repair/Replacement Activity Construction Code/Edition: ASME Section III Class 2, 1974 w/Winter 1975 14. ASME Section XI Code/Edition: 1992 Edition, 1992 Addenda 15. Preservice Inspection Required:							
Initial Date 4/6	If required, inclu	ide a step in the W.O. to	perform Preservice Insp	ection				
16. ASME Section XI Pressure	Test Required:	yes 🗌 no						
Initial M Date Cold			r ISI & ANII Inspection ete NIS-2 Form prior to 1					
Initial All Date	18. Include a stereplacement item	• -	below all applicable num	nbers for repaired or				
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.				
14" Pipe SA 333 Gr. 6	APN 00070175	N/A	94933	644123				
14", 90° Elbow SA 420 Gr. WPL6	APN 00070173	N/A	2269B	644123				
	1							
		.:						
· · · · · ·								
19. Planner Signature	6/6/02 Date	_ Printed Name: _	R.P. IND	REGA				
o. ISI Prod	CG 6/18/02	Printed Name: _	R.P. IND	AP				
Signature	Date	•	t					
21. ANII Signature	レール - 02 Date	Printed Name:	R.G. HOGSTRON	· · · · · · · · · · · · · · · · · · ·				

PV-E0093 Ver. 6

73DP-9ZZ17

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizon	na Public Service (Company, et. al.			Date:	06/06/200	2	
<u>P. O. E</u>	30x 53999, Phoeni	x Arizona 85072-	2034		Sheet:	<u>1</u> of 2	<u>2</u>	
2. Plant: Palo V	erde Nuclear Gene	erating Station			Unit: <u>1</u>			
<u>5801 S</u>	outh Wintersburg	Road., Tonopah,	Arizona 8535	4-7529	Work C	Order Num	ber <u>2458123</u>	
3. Work Performe	d by: <u>Arizona Public</u>	Service	Type of Code Stamp None					
		Authorization No. N/A						
		;		:	Expirat	ion Date	N/A	
4. Identification of	f System: <u>Main Ste</u>	am Feedwater						
5. (a) Applicable	Construction Code A	ASME Section III N	NC, Class 2	1974 Edition	ı, <u>Sumn</u>	ner 1975 A	Addenda,(Code Case
(b) Applicable	Edition of Section 2	I Utilized for Repa	airs or Replace	ments: <u>199</u>	2 Editi	on, 1992	<u>Addenda</u>	
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Component	ts			<u></u>
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
SG Feedwater Pipe Spool S011	N/A	N/A	N/A	1PSGEL0	02	2002	Replacement	NO
			:					
7. Description of V Ref. 01-P-SGF-119	Work: <u>Replace a sect</u>	tion of 14" pipe and	l fittings on lin	e 1PSGELO	02 with	> 0.1% C	hrome content m	aterials.
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pres	ssure [] Exc	empt 🔲 N-4	16-1 🛛
Oth	ner Press	ure psi			Test 7	Cemperatu	re °F	
				. •				
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this re	port is include	ngs may be ed on each	e used sheet,	provided and (3) ea	(1) size is 8 ½ 2 ach sheet is nun	X 11 abered

ASME SECTION XI – REPAIR / REPLACEMENT							
1. Component ID 1PSGEL005		2. Code Class ASME S	ection III Class 2				
3. Item Description: Main Stea		•					
4. N-5 Data Package Number:	ISG02-1	5. W.O. Number: 24581	<u>28</u>				
6. Original Construction Code	Edition: 1974 Edition, Summe	r 1975 Addenda					
7. Original Installation Code Ed	lition: 1974 Edition, Winter 1	975 Addenda					
8. Work Description: Replace Chrome	e the 24" x 16" and 16" x 14" recontent materials. Ref. 01-P-5		ng on line 01PSGEL00	5 with > 0.1%			
9. 🔲 ISI Flaw	NDE	Method of Flaw Detection	a:				
,	Repo	rt Number:					
10. Evaluation of the suitability Replacement w preventive ac corrosion.	rof this work as per the requirer 444 move corross 425 to counte APPINAP 6/14/62	nents of IWA-4150: ion restant	material i flew accel	s a Jarokd			
11. Repair/Replacement Work	Organization: Arizona Public	<u>Service</u>	SUMME	- CFZ 6114102			
11. Repair/Replacement Work of 12. Replacement Items Constru	ction or reconciled Code/Editio	n: ASME Section III Cla	ss 2, 1974 w/Winter 19	75 \$ 2-18-02			
13. Repair/Replacement Activit	ty Construction Code/Edition:	ASME Section III Class 2	, 1974 w/Winter 1975	. "			
14. ASME Section XI Code/Ed	ition: 1992 Edition, 1992 Ad	<u>denda</u>					
15. Preservice Inspection Requi		es 🗌 no					
Initial Date	If required, include	le a step in the W.O. to per	form Preservice Inspec	tion			
16. ASME Section XI Pressure							
Initial M Date G	fo2 If required, include	le a step in the W.O. for IS					
Initial Date 6662 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.							
Initial Jack Color	18. Include a step in the W.O. to record below all applicable numbers for repaired or						
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.			
24" Pipe SA 106 Gr. C	APN 00070177	N/A	183371-	644121			
24" x 16" Reducer SA 234 Gr. WPC	APN 00066490	N/A	18873-	644121			
16" x 14" Reducer SA 234 Gr. WPC	APN 00070172	N/A	912336°	64121			
16" Pipe SA 106 Gr. C	APN 00070176	N/A	2267B.	644121			
20 1.000.1100 00							
			1				
19. Planner Signature G/G/02 Printed Name: HERBERT L. GREEN 20. ISI Printed Name: R. P. INDAP							
20. ISI	A 6/14/02	Printed Name:	2. P. IND	AP			
Signature Of al	Date		76 HOGSTROM				
21. ANII Signature	G-18-02 Date	Printed Name:	10621KOH				

As Required by the Provisions of the ASME Code Section XI

1 0 4-	na Dablia Camina (O		Det	e: <u>06/06/20</u> 0	na	
<u>P. O. 1</u>	P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2						
2. Plant: Palo V	erde Nuclear Gen	erating Station		Uni	t: <u>1</u>		
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	64-7529 Wo	rk Order Nur	nber <u>2458128</u>	
3. Work Performe	xd by: Arizona Public	Service		Тур	e of Code St	amp <u>None</u>	
				Aut	horization No	o. <u>N/A</u>	
				Exp	iration Date	N/A	
4. Identification o	f System: <u>Main Ste</u>	am Feedwater					
5. (a) Applicable	Construction Code	ASME Section III N	NC, Class 2	<u>1974</u> Edition, <u>S</u> 1	mmer 1975	Addenda,(Code Case
(b) Applicable	Edition of Section 3	A Utilized for Repa	airs or Replace	ments: <u>1992 E</u>	dition, 1992	Addenda	
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
SG Feedwater Pipe Spool S011	N/A	N/A	N/A	1PSGEL005	2002	Replacement	NO
SG Feedwater Pipe Spool S010	N/A	N/A	N/A	1PSGEL005	2002	Replacement	И0
 						·	
7. Description of Work: Replace replace the 24" x 16" and 16" x 14" reducers and associated piping on line 01PSGEL005 with > 0.1% Chrome content materials. Ref. 01-P-SGF-119.							
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pressur	e 🔲 Ex	empt N-4	\$16-1 ⊠
Oti	her Press	ure <u>1830</u> psi //68	þ.	Te	st Temperatu	ure <u>\$25</u> °F	
inches, (2) info	emental sheets in formation in items larger	thru 6 on this rep	port is include				

FO	RM	NIS-2	(Ba	ck)
----	----	-------	-----	-----

3. Remarks: Replace the 24" x 16" and 16" x 14" reducers and associated piping on line 01PSGEL005 with > 0.1% Chrome content materials IAW work order 2458128. Ref. 01-P-SGF-119.

C	ertificate of Comp	liance	
We certify that the statements made in the ASME Code, Section XI.	he report are correct and	I this replacement conform	as to the rules of
Type Code Symbol Stamp	<u>N/A</u>		
Certificate of Authorization No.	<u>N/A</u>	Expiration Date:	N/A
Signed: Where or Owner's	Designee, Title	Date:	125/02

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and endinspected the components described in this Owner's respect to, and state that to the best	d by the National Board of boiler and Pressure Vessel mployed by HSB CT of Hartford, Connecticut, have report during the period of
concerning the examinations and corrective measures	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 10-24-02	

ASME SECTION XI - REPAIR/REPLACEMENT								
1. Component ID 1S	G348H00E	2. Code C	lass SECTION III Subs	ection NF Class 2				
3. Item Description 1	4 KIP SNUBBER							
4. N-5 Package Numb	4. N-5 Package Number <u>1SG02-6</u> 5. W.O. Number <u>2458175</u>							
6. Original Construction	on Code Edition 1974 E	DITION THRU WINTER	R 1975 ADDENDA					
7. Original Installation	Code Edition 1974 ED	ITION THRU WINTER 1	1975 ADDENDA					
8. Work Description F	Leplace Snubber		· · · · · · · · · · · · · · · · · · ·					
-				•				
_								
9. 🔲 ISI Flaw	NDE I	Method of Flaw Detection	•					
10 Evaluation of the s	witability of this work as	Report Number per the requirements of IA	W 4150					
	-	ressure boundery item. The		.cement				
. 11. Repair/Replaceme	nt Work Organization A	APS		•				
•		ed Code/Edition 1974 ED	ITION THRU WINTER	1975 ADDENDA				
		Code/Edition 1974 EDITI						
	Code/Edition 1992 Editi			7 0 2 2 2 2 2 2 3 4 4 2 2 2				
15. Preservice Inspect			res 🗹 no					
•	•	de a step in the W.O. to pe		tion.				
n men Date			·					
16. ASME Section XI P	•	Y این e a step in the W.O. for IS	ES I NO					
Initial Date		p in the W.O. to complete	·	sains the compensat				
initial j Date		•						
Thitial Date	replacement	p in the W.O. to record be items.	low all applicable numbe	ers for repaired or				
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
1SG348H00E	N/A	18138	N/A	N/A				
		<u>.</u>						
10 7	M Dudle	10-5-02		<u> </u>				
19. Planner	Signature	10-5-02 Print N	lame <u>David Goodlet</u>					
?0. ISI Engineer <u></u>	lan Moure	w 10/05/02 Print N	iame Alan M	errow				
21. ANII 25 5	Intern		lame Robert Hogstram					
21. Alti	Signature	Date Print N	iame Kobert Hogstram					

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 10/04/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of ____2___ 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Address Address 2458175 Work Order Number None Type Code Symbol Stamp 3. Work Performed by Arizona Public Service Authorization No. N/A N/A 5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date "SG" Steam Generator 4. Identification of System 5. (a) Applicable Construction Code Subsect. NF 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 ASME Code Repaired Manufacturer National Name of Other Year Name of Stamped Manufacturer Serial No. Board No. Identification Built Item (Yes or No) Replacement 1SG348H00E Replacement Yes 18138 N/A Pacific Scientific 1/4 Kip Snubber 7. Description of Work Snubber Replacement (No Welding) Pneumatic Nominal Operating Pressure Exempt N-416-1 8. Test Conducted: Hydrostatic Other [Pressure Test Temp. 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.

	j- (ORM NIS-2 (Back)
Remarks	WO#2458175 Removed sr	nubber Serial number 3919 and replaced it with serial number 18138
<u> </u>	CEI	RTIFICATE OF COMPLIANCE
	y that the statements made SME Code, Section XI.	in the report are correct and this replacement conforms to the rules repair or replacement
Type Co	de Symbol Stamp	N/
Certificat	te of Authorization No.	Expiration Date ///
Signed _	W/ 35 Owner	12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
	CERTIFIC	CATE OF INSERVICE INSPECTION
	•	mmission issued by the National Board of Boiler and Pressure Vessel of <u>Arizona</u> and employed byHSBI & I CO.
of <u>Har</u> the period belief, the	rtford, Connecticut , hav d <u></u>	re inspected the components described in this Owner's Report during no -7-02, and state that to the best of my knowledge and ninations and taken corrective measures described in this Owner's ments of the ASME Code, Section XI.
By signin concernir neither th	g this certificate, neither the ng the examinations and con ne Inspector nor his employe	Inspector nor his employer makes any warranty, expressed or implied rective measures described in this Owner's Report. Furthermore, in shall be liable in any manner for any personal injury or property from or connected with this inspection.
	Both Latine	Commissions NS 9685 "N" (Az 264
	Incidentale Circustum	National Board, State, Province, and Endorsements

	ACIM CECTION	G REPAIR MERL	- Casas Allandan				
			Pag	eof			
. Component ID 1SI139H00	<u>)7</u>	2. Code Class ASI	ME Section III Subsec	tion NF Class 3			
. Item Description: 1Kip Sn	ubber						
4. N-5 Data Package Number: <u>1CH08-1</u> 5. W.O. Number: <u>2458196</u>							
6. Original Construction Code			•				
7. Original Installation Code	•	inter 1975 Addenda					
8. Work Description: Repla	ce Snubber			•			
9. 🗌 ISI Flaw		NDE Method of Flaw Det	ection:				
10 Facilitation of the emissibility	to af this mode as not the m	Report Number:					
10. Evaluation of the suitabili							
Not a failure. Replaced sn	ubber for precautionary me	easures. This is a like-for-lik	е гергасетець.				
11. Repair/Replacement World							
12. Replacement Items Const							
13. Repair/Replacement Activ			/4 Edition, Winter 19/	3 Addenda			
14. ASME Section XI Code/I		d 1992 Addenda	• .,				
15. Preservice Inspection Req	uired:	☐ YES ⊠ NO	· 1.				
Initial Days Date 10	-16-02 If required	, include a step in the W.O.	to perform Preservice	Inspection			
16. ASME Section XI Pressu		☐ YES 🖾 NO					
•	- 76	, include a step in the W.O.	for ISI & ANII Inspec	tion.			
nitial <u>Mgg</u> Date <u>61</u>							
Initial <u>Puig</u> Date <u>U</u>	-16-02 component	e a step in the W.O. to comp	piete 1413-2 Form prio	t to releasing the			
	10.7.1.1		-d balaw all applicable	numbers for rensired or			
Initial <u>PMG</u> Date <u>M</u>	>-16-02 18. Includ	e a step in the W.O. to recont items.	nd below all applicable	s fluttioers for repaired or			
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.			
	1801102-05	22713	n/a	WO 2458196			
1SI139H007	1801102-03	22/13	17.0	110 2100130			
		,	·				
	·						
Λ .	<i>n n n n n n n n n n</i>		I				
19. Planner Dond		6-02 Printed Name:	David Goodlet				
Signature	Λ	Date	\sim 1	\sim			
20. ISI APPOZO	10-1	6-02 Printed Name:	(ACTIONS)				
Signature		Date		V			
ρ_{i}							
			Rila Horseson	м			
21. ANII Signature		Name: Date	R.C. HOLESTRO	M			

As Required by the Provisions of the ASME Code Section XI

The second secon	الأسالة والشاكات ووالمواجون							The second second second section is a second
1. Owner: Arizor	. Owner: Arizona Public Service Company, et. al. Date: 10-16-2002							
<u>P. O. B</u>	Sox 53999, Phoenix	x Arizona 85072-	2034	S	heet: 1	of <u>2</u>		
2. Plant: Palo V	erde Nuclear Gene	erating Station		τ	Jnit: <u>1</u>			
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2458196								
3. Work Performe	d by: Arizona Public	: Service		T	Type of Cod	le Stan	np <u>None</u>	
					Authorizatio	n No.	<u>N/A</u>	
			•	E	Expiration I	Date <u>]</u>	N/A	
4. Identification of	f System: SI: Safety	/ Injection.						
5. (a) Applicable	Construction Code A	ASME Section III N	IF, Class 3 1	974 Edition,	Winter 19	76 Ado	denda,Co	de Case
(b) Applicable	Edition of Section X	I Utilized for Repa	irs or Replace	ments: <u>1992</u>	Edition, 1	1992	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components	S			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	Ye Bu		Repaired or Replacement	ASME Code Stamped (Yes or NO)
1Kip Snubber	Pacific Scientific	22713	n/a	1SI139H00	7 1982	2	Replacement	YES
·								
· · · · · · · · · · · · · · · · · · ·								
7. Description of	Work: Replaced S	nubber; no weldii	ng.					
8. Test Conducted	l: Hydrostatic	Pneumatic	Nominal O	perating Pres	ssure 🗌	Exe	empt 🛛 N-4	116-1 🗌
Other Pressure psi Test Temperature °F								
				1				
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM	NIS-2	(Back)
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Remarks: WO# 2458196 removed snubber s/n 6880 and installed s/n 22713.

Certificate of Compliance						
We certify that the statements made the ASME Code, Section XI.	in the report are correct	and this replacement conforms to the rules of				
Type Code Symbol Stamp	N/A					
Certificate of Authorization No	N/A	Expiration Date: N/A				
Signed: Owner of Own	Consulting Mener's Designee, Title	Hallogital Date: 10-16-02 Ensineer				

CERTIFICATE OF INSERVICE INSPECTION

by the National Board of boiler and Pressure Vessel aployed by HSB CT of Hartford, Connecticut, have eport during the period of
s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection. Commissions: NB 9685 "N" "T" AZ264
National Board, Stare, Province, and Endorsements

1 v-E0092 Ver. 7 Back

ASME SECTION XI - REPAIR / REPLACEMENT											
			Pag	ge of							
1. Component ID 1PCHNV4	71	2. Code Class AS	SME Secton III Class 3								
3. Item Description: 3" Borg Warner 300# swing check valve											
4. N-5 Data Package Number: <u>1CH12-1</u> 5. W.O. Number: <u>2458786</u>											
6. Original Construction Cod											
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda											
8. Work Description: Inspection of valve iaw check valve program.											
9. 🔲 ISI Flaw											
Report Number:											
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:											
No pressure boundary fai	lure. A bonnet nut is being	replaced with a replacement	nt spare.								
11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: Sec III Cl 3. 1971 Edition Winter 1973 Addenda 13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3. 1974 Edition 1975 Winter Addenda 14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 15. Preservice Inspection Required: YES NO Initial Page Date 10-7-2002 If required, include a step in the W.O. to perform Preservice Inspection 16. ASME Section XI Pressure Test Required: YES NO Initial Page Date 10-7-2002 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 ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.							
			41039	MR 689249							
Bonnet Nut	N/A	N/A	41039	WIK 005245							
•											
·			<u> </u>								
			1								
19. Planner Signature 20. ISI Signature 21. ANII ANII	3 101	Date	David Goodlet Robert Hogstrom	XUXING-							
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: 10-07-2002				
P. O. Box 53999, Phoenix Arizona 85072-2034					Sheet: <u>1</u> of <u>2</u>				
2. Plant: Palo Verde Nuclear Generating Station					Unit: 1				
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529					Work Order Number 2458786				
3. Work Performed by: <u>Arizona Public Service</u> .					Type of Code Stamp None				
					Authorization No. N/A				
					Expiration Date N/A				
4. Identification o	f System: CH; Che	mical & Volumn C	ontrol System						
5. (a) Applicable Construction Code ASME Section III ND, Class 3 1971 Edition, Winter 1973 Addenda, Code Case									
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda									
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year on Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)		
Bonnet Nut	n/a	n/a	n/a	1PCHNV471	2002	Replacement	NO		
			,						
·									
7. Description of Work: Inspection of valve 1PCHNV471 iaw check valve program.									
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1									
Other Pressure psi Test Temperature °F									
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.									

FO]	RM	NIS	-2 (Bac	:k)

9.	Remarks:	WO# 2458786 for	valve 1PCHNV471	will replace 1	bonnet nut.

Ce	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	ne report are correct	and this replacement conform	ns to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: Thomp, Consulting Owner or Owner's I	19 M.J. E.J. Designee, Title	heer Date:	10-8-2002

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	by the National Board of boiler and Pressure Vessel inployed by HSB CT of Hartford, Connecticut, have eport during the period of 10-7-02 of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
concerning the examinations and corrective measures of	s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements
Date: 10-8-02	

	ASME SECTION	XI – REPAIR / REPLA		ge of
 Component ID <u>1JCHNPS</u> Item Description: <u>Crosby</u> N-5 Data Package Number Original Construction Code Original Installation Code 	relief valve : 1CH13-1 e Edition: 1974 Edition.	2. Code Class ASM 5. W.O. Number: 2. Summer 1976 Addenda Vinter 1975 Addenda		<u>2</u>
8. Work Description: <u>Rem</u> 9. ☐ ISI Flaw	· ·		ection:	
10. Evaluation of the suitabil		•		
11. Repair/Replacement Wor 12. Replacement Items Cons 13. Repair/Replacement Acti 14. ASME Section XI Code/ 15. Preservice Inspection Rec Initial	k Organization: Arizona truction or reconciled Code vity Construction Code/Edition: 1992 Edition and quired: -//	e/Edition: Sec. III Cl 2, 1974 Edition: Sec.	4 Edition 1976 Sumidition 1975 Winter A o perform Preservice for ISI & ANII Inspe	e Inspection ction. or to releasing the
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	· · · · · · · · · · · · · · · · · · ·	nt items.		
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
1JCHNPSV0345	n/a	-N61180-00-0002-	n/a	₩ 0 2435047-
- //	MA	N61188-01-009	NA	MR# 692040 Punti- 10-16-02
19. Planner Dans Signature 20. ISI Signature 21. ANII Signature Signature	2 10-11-	Date	David Goodlet 12-L-B/20 R.G. Haustro	

Owner: Arizo	na Public Service (Company, et. al.		Da	e: <u>10-11-20</u>	02	
<u>P. O. 1</u>	Box 53999, Phoeni	x Arizona 85072-	2034	She	et: <u>1</u> of	<u>2</u>	
2. Plant: Palo	Verde Nuclear Gene	erating Station		Un	it: <u>1</u>		
<u>5801 S</u>	South Wintersburg	Road., Tonopah.	Arizona 8535	64-7529 Wo	rk Order Nur	nber <u>2460315</u>	
3. Work Performe	ed by: <u>Arizona Public</u>	Service		Ту	ne of Code Sta	amp <u>None</u>	
				Au	thorization No	o. <u>N/A</u>	
				Ex	oiration Date	<u>N/A</u>	
4. Identification of	of System: CH: Che	mical and Volumn	Control Systen	<u>a</u>			
5. (a) Applicable	Construction Code A	ASME Section III N	IC, Class 2	974 Edition, S	ummer 1976	Addenda,(Code Case
(b) Applicable	Edition of Section X	I Utilized for Repa	irs or Replace	ments: <u>1992 F</u>	dition, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components			
Name of Name of Manufacturer Serial No. Name of Manufacturer Serial No. National Other Year Repaired or ASME Replacement Code Stamped							
<u>/</u>							(Yes or NO)
Valve	Crosby	N61180-01- 0009	n/a	1JCHNPSV- 0345	1991	Replacement	YES
							<u> </u>
							<u> </u>
				·			
					<u> </u>		<u> </u>
7. Description of	Work: <u>Installed sp</u>	are valve due to e	xisting valve	not passing s	et pressure to	est.	
8. Test Conducted	l: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pressu	re 🛭 Ex	tempt N-	416-1
Ot	her Press	ure psi		Т	est Temperati	ure °F	
inches, (2) inf	lemental sheets in formation in items larger	thru 6 on this rep	port is include				

FORM NIS-2 (Back)

Remarks: Valve 1JCHNPSV0345 was replaced with spare under wo# 2460315 due to failure of set pressure testing.

Cer	rtificate o	f Complianc	e	
We certify that the statements made in the the ASME Code, Section XI.	e report are c	correct and this re	eplacement conf	orms to the rules of
Type Code Symbol Stamp	<u>N/A</u>			
Certificate of Authorization No.	N/A	E	xpiration Date:	
Signed alan Monow	TST	Engineer	Date: .	10/28/02
Owner or Owner's D	Designee, Title			

· ·	 	. TRICIESE " FILE SIN
A SECRETARIA PARA PARA PARA PARA PARA PARA PARA	 HUSHIR VIII.	
		, <u>a.</u> 1— — — —
CERTIFICATE	 	

Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's re	by the National Board of boiler and Pressure Vessel inployed by HSB CT of Hartford, Connecticut, have export during the period of
	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Ab Ageton Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 10-28-02	

	ASME SECTION XI -	REPAIR / REPLAC	EMENT	
1. Component ID 2PDGAL00	4 RPI CIALIDATE ONLE	2. Code Class ASME	Secton III Class 3	
3. Item Description: <u>DG JACK</u>	CET WATER MAKE-UP		•	
+. N-5 Data Package Number:	<u>1DW03-1</u>	5. W.O. Number: <u>2467</u>	<u>856</u>	
6. Original Construction Code	Edition: 1974 Edition, Winter	1975 Addenda		
7. Original Installation Code E	dition: 1974 Edition, Winter 1	975 Addenda		
	viline 1PDGAL004 and replace AV063 per DMWO 220055. Re		a manual operated glob	<u>e valve</u>
9. 🔲 ISI Flaw	NDE	E Method of Flaw Detection	on:	
<u>.</u>	Repo	ort Number:		
10. Evaluation of the suitability	of this work as per the require	ments of IWA - 4150:	Table Garage	· ND
The valve in the details. R	of this work as per the required to the service being pressure being PZ 6/26/62	d due to ope dany anea. S	see the EDC	for more
11. Repair/Replacement Work	Organization: Arizona Public	Service		
12. Replacement Items Constru	ction or reconciled Code/Edition	n: ASME Section III C	lass 3, 1974 w/Winter 19	<u> </u>
13. Repair/Replacement Activi	ty Construction Code/Edition:	ASME Section III Class	3, 1974 w/Winter 1975	
14. ASME Section XI Code/Ed	ition: 1992 Edition, 1992 Ac	<u>ldenda</u>		
15. Preservice Inspection Requ	ired:	TES NO		
Initial Date Coff	If required, include	de a step in the W.O. to p	erform Preservice Inspec	etion '
16. ASME Section XI Pressure	Test Required:	es 🗌 no		
nitial M Date	If required, include	de a step in the W.O. for I	ISI & ANII Inspection.	
Initial Date Color		p in the W.O. to complete	NIS-2 Form prior to rel	easing the
Initial M Date Cof	18. Include a stereplacement item	p in the W.O. to record be	elow all applicable numb	ers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.
FLANGE	APN 43580509	N/A	16946SACAB	655213
PIPE	APN 43510409	N/A	453904	655213
VALVE	APN 45000258	ASG3.8	N/A	655213
FLANGE	APN 43580509	NA	AWE-B	688761
All-THREAD (STUDS)	APN 43110614	NIA	NA	<u>.</u>
Nuts	APN 43122013	NA	NA	
		•	ľ	
19. Planner Affective	- G/S/02-	Printed Name:	ERBENT L. GA	600
20. ISI Signature	- 6/2/6/02 Date Date	.	R.P. INDAP	***
21. ANII Rt Fration	6-26-02	Printed Name:	R.G. HOLSTROM	
Signature	Date			

.

1. Owner: Arizon	na Public Service (Company, et. al.		Date	: <u>06/08/200</u>	<u>12</u>		
<u>P. O. F</u>	P. O. Box 53999, Phoenix Arizona 85072-2034				Sheet: <u>1</u> of <u>2</u>			
2. Plant: Palo V	erde Nuclear Gene	erating Station		Uni	: <u>1</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	4-7529 Wo	k Order Nun	nber <u>2467856</u>		
3. Work Performe	d by: <u>Arizona Public</u>	Service		Тур	e of Code Sta	emp None		
				Aut	norization No	o. <u>N/A</u>		
				Exp	iration Date	N/A		
4. Identification of	f System:							
5. (a) Applicable	Construction Code	ASME Section III N	VD Class 3	<u>974</u> Edition, <u>W</u>	inter 1975 A	ddenda, Co	ode Case	
(b) Applicable	Edition of Section 3	I Utilized for Repa	airs or Replace	ments: <u>1992 E</u>	lition, 1992	Addenda		
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
Jacket Water Make-up Valve	Target Rock	3 (2SMH-S3)	N/A	1JDGAUV001	1978	Replacement	YES	
Jacket Water Make-up line	N/A	N/A	N/A	1PDGAL004	2002	Replacement .	No	
·								
i								
	Work: Modify line DMWO 220055.	1PDGAL004 an	d replace valv	ve 1JDGAUV(01 with a n	nanual operated	globe valve	
8. Test Conducted	: Hydrostatic	Pneumatic	Nominal O	perating Pressur	e 🔀 Ex	empt N-4	16-1	
Oth	ner Press	ure psi		Te	st Temperatu	are of	iolator	
inches, (2) info	emental sheets in formation in items 1	thru 6 on this rep	port is include					

FORM NIS-2 (Back)

Remarks: Modify line 1PDGAL004 and replace valve 1JDGAUV001 with a manual operated globe valve 1PDGAV063 per DMWO 220055. Ref. EDC 2002-0097.

Co	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	he report are correct	and this replacement conform	s to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: Alan Monor Owner's Owner or Owner's	CONTRACT CON	ing wieer Date:	0/9/02
CERTIFICA	TE OF INSER	VICE INSPECTION	

	-	ASME SECTION XI – REPAIR / REPLACEMENT							
_	1. Component ID ZPDGBL01	5 6106102-1 - was	2. Code Class—ASME	Secton III Class 3					
	3. Item Description: <u>DG JACI</u>								
4. N-5 Data Package Number: <u>1DW03-1</u> 5. W.O. Number: <u>2467900</u> 6. Original Construction Code Edition: <u>1974 Edition, Winter 1975 Addenda</u>									
6. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda									
		y line 1PDGBL015 and replace		a manual operated gl	obe valve				
-	:								
9. ISI Flaw NDE Method of Flaw Detection: Report Number:									
	10. Evaluation of the suitability The valve in No failure in See EDC f	y or his work as per the required to be ing replace twe (ASME) gressor move details	sure retains. PPZ 6/26/	perability in sounder	rsues y.				
·	11. Repair/Replacement Work								
	12. Replacement Items Constru								
	 Repair/Replacement Activities ASME Section XI Code/Ec 			3, 19/4 W/Winter 19/	2				
	15. Preservice Inspection Requ								
	Initial Date USlo2 If required, include a step in the W.O. to perform Preservice Inspection								
	16. ASME Section XI Pressure	•	<u> </u>	crioini i rosci vice msp					
	11/		ide a step in the W.O. for I	SI & ANII Inspection					
	Initial M Date Off	_	-	-					
	Initial Date	17. Include a ste component.	ep in the W.O. to complete	NIS-2 Form prior to	eleasing the				
	18. Include a step in the W.O. to record below all applicable numbers for repaired or								
	Initial John Date Coffice replacement items.								
	Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.				
	FLANGE	APN 43580509	N/A	AWE-B	655213				
	PIPE	APN 43510409	N/A	D852653	655213				
	VALVE	APN 45000258	ASG3-8	N/A	655213				
1	FLANGE	APN 43580509	NJA	H4887	691842				
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	All-THREAD (STUDS)		NA	NA	688830				
70	Nots	APN 43122013	NIA	NA	6888 30				
Mar	_								
	19. Planner Signahure	Colos Date	Printed Name:	R.P. IND	ileon				
,	20. ISI Process) 6/24/02 Date	Printed Name:	R.P. IND	AP				
Ì	21. ANII Reference	6-24-02 Date	Printed Name:	.6. HOGSTROM					
-	PV-E0093 Ver. 6				73DP-42Z17				

PV-E0093 Vec. 6

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 10/19/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by Arizona Public Service Co. Type Code Symbol Stamp None Authorization No. N/A 5801 S. Wintersburg Rd., Tonopah, AZ 85354 Expiration Date N/A DG 4. Identification of System 5. (a) Applicable Construction Code ASME Sect. III Cl 3 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 Repaired ASME Code Year Manufacturer National Other Name of Name of Stamped Manufacturer Serial No. Board No. Identification Built Item (Yes or No) Replacement ASG2-3 '91 Valve Kerotest N/A 1PDGBV064 Replacement Yes N/A N/A N/A 1PDGBL015 '02 Replacement No Line 7. Description of Work Modify line 1PDGBL015 and replace valve 1JDGBUV002 with 1PDGBV064. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt [] N-416-1 Pressure psi Test Temp. Other T 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

73DP-9ZZ17

the number of sheets is recorded at the top of this form.

FORM NIS-2 (Ba	ick))
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 Remarks: Modify line 1PDGBL015 and replace valve 1JDGBUV002 with a manual operated globe valve 1PDGBV064 per DMWO 220055. Ref. EDC 2002-0098.

			
Cert	tificate of Co	ompliance	
We certify that the statements made in the the ASME Code, Section XI.	report are correc	t and this replacement conform	s to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	<u>N/A</u>	Expiration Date:	N/A
Signed: Owner or Owner's Des	Sr TST G	nginiser Date: 10	0/19/02

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> inspected the components described in this Owr to, and state that to the	issued by the National Board of boiler and Pressure Vessel and employed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have her's report during the period of <u>C-26-02</u> he best of my knowledge and belief, the Owner has performed described in this Owner's Report in accordance with the
concerning the examinations and corrective mea	nor his employer makes any warranty, expressed or implied, sures described in this Owner's report. Furthermore, neither any manner for any personal injury or property damage or a his inspection.
Por La Agritume Asspectors Signature	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements
Date: 10-19-02	•

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 1JS	SIBUV0631	2. Code C	ass 2				
3. Item Description H	3. Item Description HOT LEG INJECTION B CHECK VALVE LEAKOFF VALVE						
4. N-5 Package Numb	4. N-5 Package Number <u>1SI02-1</u> 5. W.O. Number <u>2470872</u>						
6. Original Construction	on Code Edition ASME S	SECT. III, CL 2 1974 EL	OITION S'75 ADD				
7. Original Installation	Code Edition ASME SE	ECT. III, CL 2 1974 EDI	TION W'75 ADD				
8. Work Description I	EPLACE THE PLUG TO	O CORRECT SEAT LEA	KAGE.				
-							
9. 🔲 ISI Flaw	NDE N	lethod of Flaw Detection					
		Report Number	 				
10. Evaluation of the s	uitability of this work as p	er the requirements of IA	W-4150.	1 - I llom			
Plug is E	eing replace	a to correct s	ear leakage.	No Tallere			
	280.0 10 4						
				dua			
11. Repair/Replaceme	nt Work Organization A	RIZONA PUBLIC SERV	TICE	5 205			
12. Replacement Item	Construction or reconcile	d Code/Edition ASME S	SECT. III, CL 2 1974 EI	DITION W75 ADD			
.3. Repair/Replaceme	nt Activity Construction C	ode/Edition ASME SEC	T. III, CL 2 1974 EDITI	ION W'75 ADD			
14. ASME Section XI (Code/Edition ASME SE		TON 92 ADD	····			
15. Preservice Inspec	tion Required.	1 6/18/02 U Y	ES 🗹 NO				
JD 06/11/		e a step in the W.O. to pe	erform Preservice Inspec	tion.			
		П	ES 🗹 NO				
JD 06/11/	Pressure Test Required O2 If required, include	ت بے a step in the W.O. for IS	-				
Initial Date JD 06/11/	•	in the W.O. to complete	•	asing the component.			
Initial Date		in the W.O. to record be					
JD 06/11/	replacement i	•	low all applicable numbe	is for repaired of			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
BOWNET NUT	43/2/08/	NIA	0E0947	MR 692950			
19. Planner	1x lain	6-10-03 Print N	lame JAMES I. DAVIS				
	Signature	Date C Drinks	P. 9.9	EVDAD			
0. ISI Engineer	Signature	6-18-07-Print N					
21. ANII // //	where	<u>6-18-62</u> Print N	lame R.G. Hoces	ROM			
	Signature	· Date					

	-				-		
1. Owner <u>Arizona</u>	Public Service Co	mpany, et, al.		Date		10/22/02	
	x 53999. Phoenix.	RELIE					
2. Plant Palo Ve	erde Nuclear Genera			Unit	-	1	<u></u>
	Wintersburg Rd., 7	MOTING.					
	•	doress				WORK OTGE! Pullinger	
3. Work Performed t	by Arizona Public S	Service Name		Туре С	ode Syr	mbol Stamp	None
		ALL III		Authoriz	zation N	No. <u>N</u>	[/A
5801 S.	Wintersburg Rd., 7	Ponapah, Arize	ona 85354-	-7529 Expiration	on Date	e <u>N/</u>	<u>'A</u>
4. Identification of Sy	ystem Safety Inje	ection					
	,						
5. (a) Applicable Co	onstruction Code <u>ASM</u>	IE Sec III, Cl	2 1974	Edition, <u>S75</u>	_ Addr	enda,	_ Code Case
(b) Applicable Ed	lition of Section XI Utiliz	zed for Repairs or	r Replacemer	nts 19 <u>92</u> Edi	ition, _	1992 Adder	nda
6. Identification of Co	omponents Repaired or	r Replaced and R	leplacement (Components			
Name of	Name of	Manufacturer	National	Other	Year	Repaired	ASME Code
Item	Manufacturer	Serial No.	Board No.	. Identification	Built	or Replacement	Stamped (Yes or No)
Valve	Fisher Controls	6548723	4186	1JSIBUV0631	1	Repaired	Yes
Bonnet nut	Fisher Controls	Ht# OE0947	N/A	1JSIBUV0631	2002	Replacement	No
				·			
					 		
			<u></u>	<u> </u>	L		<u>. </u>
7. Description of Work	k Replace the valv	e bonnet nut.					
8. Test Conducted:	Hydrostatic P	neumatic 🔲 🗀	Nominal Ope	erating Pressure	, Q	Exempt 🗹	N-416-1 🔲
	Other	Pressure	psi		Test T	emp.	°F
	: -		***************************************		•		- ·
NOTE Complemen	the first to form of	44 1A-h-a-a	•			to the two tark	ويري مما
(2) information in ite	ntal sheets in form of terms 1 through 6 on t	this report is incl	duded on ea				
the number of shee	ets is recorded at the	top of this form	I.				

FORM NIS-2 (Back)

9.	Remarks	Work Order 2470872 replaced the bonnet nut lost during disassembly. There was no failure invovled.
		
		CERTIFICATE OF COMPLIANCE
		fy that the statements made in the report are correct and this repair conforms to the rules SME Code, Section XI.
	Туре Со	de Symbol StampN/A
		te of Authorization No. N/A Expiration Date N/A
	Signed _	Owner or Owner's Designee, Title
		CERTIFICATE OF INSERVICE INSPECTION
		dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel rs and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u>
ı		rtford, Connecticut , have inspected the components described in this Owner's Report during d, 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 accordance with the requirements of the ASME Code, Section XI.
	concerning neither the	g this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ng the examinations and corrective measures described in this Owner's Report. Furthermore, he inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
		Commissions National Board, State, Province, and Endorsements
	Date	v-23-o2 ;

ASME SECTION XI - REPAIR/REPLACEMENT				
1. Component ID _S/I	N - BS 08622	2. Code C	lass ASME III, CLASS	3 2
3. Item Description M	IAIN STEAM SAFETY	VALVE; DRESSER - 37	707RA-RT25; 1290 PS	IG
4. N-5 Package Numb	per NA	5. W.O. Nu	ımber <u>2511997</u>	
6. Original Construction	on Code Edition 1974 ED	DITION, SUMMER 197	5 ADDENDA	
7. Original Installation	Code Edition 1974 EDI	TION, WINTER 1975 A	DDENDA	
	Maintenance overhaul of s			alves or from
_ <u>a</u>	pproved purchased spare	parts based upon inspect	tion results.	
9. 🔲 ISI Flaw	NDE W	Method of Flaw Detection		
		Report Number		
	ultability of this work as p	· ·		
NO TABLET IN THE A	ASME Sec. III boundary.	The Disc replacement is	to enhance performance	}-
	* * :			
			· <u>·</u>	
11. Repair/Replacemer	nt Work Organization N	WS Technologies		**************************************
12. Replacement Item (Construction or reconciled	d Code/Edition ASME II	II, CLASS 2, 1974 ED.,	S'75 ADD.
13. Repair/Replacemer	nt Activity Construction Co	ode/Edition ASME III C	LASS 2, 1974 ED., W'7	5 ADD.
14. ASME Section XI C	Code/Edition 1992 EDIT	ION AND 1992 ADDEN	IDA	
15. Preservice Inspecti	ion Required.	. 🛄 Y	res 🖸 No	
DMG 06/03/0	02 If required, include	e a step in the W.O. to pe	erform Preservice Inspec	tion.
16: ASME Section XI P	ressure Test Required	□ Y	ES Z NO	
DMG06/03/0	02 If required, include	a step in the W.O. for IS		
Initial	02 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	asing the component.
Initial Date DMG 06/03/0		in the W.O. to record bei	•	- ·
Initial Date	replacement it	tems.	·	
DISC	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
25INDLE DISC	00064290 45560003	ADF99 ADG02	A19374	PO*500238999 Po*33207018
Ollvoce	4000 BHOD		H17574	PO 23/00+010
	·			
	· , .			<u> </u>
· · · · · · · · · · · · · · · · · · ·	·, .			
19. Planner Dan	an Donald	7-10-03 Print N	Name David Goodlet	
20. ISI Engineer	Signature	8/16/02_Print N	Vame Ramakant Indap	•
21. ANII	Signature	Print N	Name Robert Hogstrom	· · · · · · · · · · · · · · · · · · ·
	(Signature	Date		

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID S/	N - BT-01672	2. Code C	lass ASME III, CLAS	5.2			
· ——	3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25; 1315 PSIG						
4. N-5 Package Numb	1		umber 2511997				
6. Original Construction	on Code Edition 1974 El	DITION, SUMMER 197					
7. Original Installation	Code Edition 1974 EDI	TION, WINTER 1975 A	DDENDA				
8. Work Description N	Maintenance overhaul of	safety valve. Code part n	eplacement from spare v	alves or from			
a	pproved purchased spare	parts based upon inspec	tion results.				
_							
 9.	NDE N	Method of Flaw Detection					
_		Report Number					
10.' Evaluation of the s	uitability of this work as p	er the requirements of IA	.W-4150.				
No failure in the A	ASME Sec. III boundary.	The Disc replacement is	to enhance performance				
				· · · · · · · · · · · · · · · · · · ·			
11. Repair/Replaceme	nt Work Organization N	WS Technologies					
12. Replacement Item	Construction or reconcile	d Code/Edition_ASME I	II, CLASS 2, 1974 ED.,	S'75 ADD.			
	ta.e	ode/Edition ASME III C					
		TON AND 1992 ADDEN					
15. Preservice Inspect		۱۵					
DMG06/03/		e a step in the W.O. to pe		tion.			
Initial Date		·	_				
16. ASME Section XI P			ES 🗹 NO				
DMG 06/03/	02 If required, include	e a step in the W.O. for IS	il & ANII Inspection.				
DMG 06/03/0	02 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	asing the component.			
DMG 06/03/		in the W.O. to record be	low all applicable numbe	rs for repaired or			
Initial Date	replacement						
DISC	PART NO. 00064290	SERIAL NO.	HEAT NO.	MR/ROS NO. PD \$ 500238999			
SANDLE	45560003	nugo (AFSTA	PO# 33207018			
SPRING ASSIL	00065849	AAC67	7,01.	FROU BS-08585			
· · · · · · · · · · · · · · · · · · ·							
				<u> </u>			
19. Planner	19. Planner David Goodlet						
<u></u>	Signature	Date					
20. ISI Engineer	Fonda P Signature	8/16/02 Print h	lame Ramakant Indap				
21. ANII /	Lyston	\$-16-02 Print !	Name Robert Hogstrom				
	(\Signature	Date					

ASME SECTION XI - REPAIR/REPLACEMENT						
1. Component ID <u>S/N - BT-01670</u>						
3. Item Description MAIN STEAM SAFETY V.	ALVE; DRESSER - 37	07RA-RT25; 1290 PSI	G			
4. N-5 Package Number	5. W.O. Nu	mber <u>2511997</u>				
6. Original Construction Code Edition 1974 EDI	TION, SUMMER 1975	ADDENDA				
7. Original Installation Code Edition 1974 EDIT	ION, WINTER 1975 AI	DDENDA				
8. Work Description Maintenance overhaul of sa approved purchased spare p	fety valve. Code part re parts based upon inspect	placement from spare vi	alves or from			
9. ☐ ISI Flaw NDE Me	•	· · · · · · · · · · · · · · · · · · ·				
10. Evaluation of the suitability of this work as pe	r the requirements of IA	W-4150.				
No failure in the ASME Sec. III boundary.	The Disc replacement is	to enhance performance	·			
, s	· · · · · · · · · · · · · · · · · · ·					
11. Repair/Replacement Work Organization NW	/S Technologies					
12. Replacement Item Construction or reconciled	<u>-</u>					
13. Repair/Replacement Activity Construction Co						
14. ASME Section XI Code/Edition 1992 EDITIO	•					
15. Preservice Inspection Required.	. 🗀 Y					
DMG 06/03/02 If required, include	-	rform Preservice Inspec	tion.			
Initial Date			• •			
16. ASME Section XI Pressure Test Required	Y G for IS					
initial Date	a step in the W.O. for IS					
Initial Date		NIS-2 Form prior to rele				
DMG 06/03/02 18. Include a step i		low all applicable number	ers for repaired or			
ITEM I.D. PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
DISC 00064290	A0900		PO" 50023P999			
			<u> </u>			
19. Planner District	19. Planner D. Self 7-10-02 Print Name David Goodlet					
Signature	Date					
20. ISI Engineer Signature Samakant Indap Signature Date Ramakant Indap						
1. T. J.		•				

AND PROCESS OF THE STATE OF THE

ASME SECTION XI - REPAIR/REPLACEMENT								
1. Component ID S/I	1. Component ID S/N - BS08618 2. Code Class ASME III, CLASS 2							
3. Item Description M	3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25; 1250 PSIG							
4. N-5 Package Numb	er ~\alpha	5. W.O. Nu	ımber 2511997					
6. Original Construction	n Code Edition 1974 EI							
	Code Edition 1974 EDI							
-	faintenance overhaul of s			alves or from				
	pproved purchased spare							
_			 					
9. 🔲 ISI Flaw	NDE M	fethod of Flaw Detection	- · · · · · · · · · · · · · · · · · · ·					
		Report Number						
10.' Evaluation of the s	uitability of this work as p							
	ASME Sec. III boundary.).				
	•	\+ \.\.		•				
11. Repair/Replacemen	nt Work Organization 'N	WS Technologies						
	Construction or reconcile		II. CLASS 2, 1974 ED.	S'75 ADD.				
	nt Activity Construction C	**		· · · · · · · · · · · · · · · · · · ·				
	code/Edition 1992 EDIT			S ADD.				
		·'						
 Preservice Inspect DMG 06/03/ 		۱ است e a step in the W.O. to pe		tion				
tnitial Date	i required, include	e a step in the w.o. to pe		uOII.				
16. ASME Section XI P	ressure Test Required	□ Y	ES 🗹 NO					
DMG 06/03/	02 If required, include	a step in the W.O. for IS	I & ANII Inspection.					
DMG 06/03/	02 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	asing the component.				
DMG 06/03/		in the W.O. to record be	low all applicable numbe	ers for repaired or				
Initial Date	replacement i	tems. SERIAL NO.	HEAT NO.	MR/ROS NO.				
DISC	000429D	ADGO4	neal No.	Po 500238999				
	3344210	HUGOT	· .					
		<u> </u>	·					
		,						
19. Planner	Signature Signature	7-10-02 Print !	Name David Goodlet					
20. ISI Engineer	Phodap	8/16/02 Print 1	Name Ramakant Indap					
	Signature	Date						
21. ANII	Signature	Date Print I	Name Robert Hogstrom					

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID S/N - BS08634 2. Code Class ASME III, CLASS 2							
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25; 1315 PSIG							
4. N-5 Package Number 5. W.O. Number							
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA							
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA							
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from	m						
approved purchased spare parts based upon inspection results.							
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 Sec. III boundary. The Disc replacement is to enhance performance.							
No. 18p. 1							
11. Repair/Replacement Work Organization NWS Technologies	 						
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.							
13. Repair/Replacement Activity Construction Code/Edition <u>ASME III CLASS 2, 1974 ED., W'75 ADD.</u>							
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA	·						
15. Preservice Inspection Required.							
DMG 06/03/02 If required, include a step in the W.O. to perform Preservice Inspection.							
16. ASME Section XI Pressure Test Required YES NO							
DMG 06/03/02 If required, include a step in the W.O. for ISI & ANII Inspection.							
DMG 06/03/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the NIS-2 Form prior to releasing the complete NIS-2 Form prior to r	omponent.						
Date Doctor DMG 06/03/02 18. Include a step in the W.O. to record below all applicable numbers for repair replacement items.	red or						
ITEM I.D. PART NO. SERIAL NO. HEAT NO. MR/I	ROS NO.						
DISC 00064290 ADE36 Po* Sat	238999						
19. Planner David Goodlet Date Print Name David Goodlet							
20. ISI Engineer Ramakant Indap							
Sighature Date.							

ASME SECTION XI - REPAIR/REPLACEMENT						
1. Component ID S/N - BS08608 2. Code Class ASME III, CLASS 2						
3. Item Description M	AIN STEAM SAFETY					
4. N-5 Package Numb	er	5. W.O. Nu	umber <u>2511997</u>			
6. Original Constructio	n Code Edition 1974 EI	DITION, SUMMER 197	5 ADDENDA			
7. Original Installation	Code Edition 1974 EDI	TION, WINTER 1975 A	DDENDA	·		
	faintenance overhaul of s			valves or from		
<u>a</u>	pproved purchased spare	parts based upon inspec	tion results.			
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection				
		Report Number				
	uitability of this work as p	•		•		
No failure in the A	SME Sec. III boundary.	The Disc replacement is	to enhance performance	e		
****		* **				
			· · · · · · · · · · · · · · · · · · ·			
11. Repair/Replacemen	nt Work Organization N	WS Technologies	•			
12. Replacement Item (Construction or reconcile	d Code/Edition ASME I	II, CLASS 2, 1974 ED.,	S'75 ADD.		
13. Repair/Replacemen	nt Activity Construction Co	ode/Edition ASME III C	LASS 2, 1974 ED., W	75 ADD.		
14. ASME Section XI C	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	IDÀ			
15. Preservice Inspecti	on Required.	. 🛄 Y	res 🗹 No			
DMG 06/03/0	02 If required, include	e a step in the W.O. to pe	erform Preservice Inspe	ction.		
16. ASME Section XI P	Test Designed					
DMG 06/03/0	•	۲ ایسا a step in the W.O. for IS	ES NO			
Initial Date DMG 06/03/0	•	in the W.O. to complete	-	essing the companent		
Initial Date		•	•	•		
DMG 06/03/0	18. Include a step replacement it	in the W.O. to record be tems.	low all applicable numb	ers for repaired or		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.		
DISC	00064290	ADG03		Po 500238999		
		<u> </u>				
W						
	4		:			
19. Planner Link	or Speakly		Name David Goodlet			
20. ISI Engineer	Signature Phonologia	8-16-02 Print	Name Ramakant Indap			
14	Signature	Date	•			
21. ANII ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	(Signature	Date Print	Name Robert Hogstrom			

..

ASME SECTION XI - REPAIR/REPLACEMENT								
1. Component ID S/N - BS08573 2. Code Class ASME III, CLASS 2								
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25; 1290 PSIG								
4. N-5 Package Numb	er	5. W.O. Nu	mber <u>2511997</u>					
6. Original Construction	n Code Edition 1974 ED	ITION, SUMMER 1975	S ADDENDA					
7. Original Installation	Code Edition 1974 EDI	TION, WINTER 1975 AI	DDENDA					
8. Work Description M	aintenance overhaul of s	afety valve. Code part re	placement from spare va	dves or from				
ar	proved purchased spare	parts based upon inspect	ion results.					
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection						
		Report Number						
10.' Evaluation of the su	itability of this work as p	er the requirements of IA	W-4150.					
No failure in the A	SME Sec. III boundary.	The Disc replacement is						
		· · · · · · · · · · · · · · · · · · ·						
		· ,						
11. Repair/Replacemer	nt Work Organization N	WS Technologies	•					
		d Code/Edition ASME II	II, CLASS 2, 1974 ED.,	S'75 ADD.				
•		ode/Edition ASME III C						
1.7	•	ION AND 1992 ADDEN						
		□ Y	•					
15. Preservice Inspect DMG 06/03/6	•	ت ہیں۔ e a step in the W.O. to pe		tion				
Initial Date	ir required, include	e a step in the w.o. to pe	monii rieservice inspec	uOt1.				
16. ASME Section XI P	ressure Test Required	Q Y	ES 🗹 NO					
DMG 06/03/0	02 If required, include	a step in the W.O. for IS	& ANII Inspection.					
DMG06/03/0	17. include a step	in the W.O. to complete	NIS-2 Form prior to rele	asing the component.				
Initial Date DMG 06/03/0)2 18. Include a step	in the W.O. to record be	low all applicable numbe	ers for repaired or				
Initial Date	replacement i							
ITEM I.D. DISC	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
SPINDLE	00064290 45540003	ADE37	A 19374	Po# 33207018				
SPINEW	43340003							
				·				
		· ,						
19. Planner Roll Devell 7-10-02 Print Name David Goodlet								
20. ISI Engineer	Signature Date							
7	9ignature	Date Date	Name Debart House					
21. ANII Print Name Robert Hogstrom Granture Date Print Name Robert Hogstrom								

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID	S/N - BS08587	2. Code C	lass ASME III, CLAS	SS 2			
3. Item Description	3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25; 1315 PSIG						
4. N-5 Package Nun	nber	5. W.O. Nu	ımber <u>2511997</u>				
6. Original Construc	tion Code Edition 1974 EI	DITION, SUMMER 197	5 ADDENDA				
7. Original Installation	on Code Edition 1974 EDI	TION, WINTER 1975 A	DDENDA				
8. Work Description	Maintenance overhaul of s			valves or from			
	approved purchased spare	parts based upon inspec	tion results.				
9. 🔲 ISI Flaw	NDE N	lethod of Flaw Detection					
:		Report Number		·			
	suitability of this work as p						
No failure in the	ASME Sec. III boundary.	The Disc replacement is	to enhance performance	æ.			
			, ,				
							
11. Repair/Replacem	nent Work Organization N	WS Technologies	· '				
12. Replacement Iter	m Construction or reconcile	d Code/Edition ASME I	II, CLASS 2, 1974 ED.	, S'75 ADD.			
13. Repair/Replacem	ent Activity Construction C	ode/Edition ASME III C	LASS 2, 1974 ED., W	75 ADD.			
14. ASME Section XI	Code/Edition 1992 EDIT	ION AND 1992 ADDEN	NDA .				
15. Preservice Inspe	ection Required.		res 🗹 No				
DMG 06/0	3/02 If required, includ	e a step in the W.O. to pe	ertorm Preservice Inspe	ction.			
-	Pressure Test Required		res 🗹 No				
DMG 06/0	•	د.يــــ a step in the W.O. for IS					
Initial Da DMG 06/0	ite	in the W.O. to complete	•	easing the component			
Initial Da	nte	in the W.O. to record be		•			
DMG 06/0			now an applicable numb	ers for repaired of			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
DISC	00064290	40E 19	0,022.4	PD 50023 P 999			
SPINDLE	4556-0003	<u> </u>	A1937A	PO# 33207018			
	- 						
		\$					
19. Planner	My lands		Name David Goodlet				
20 ISI Engineer	Skignature Date						
20. ISI Engineer	Symature Symature	Date Print	Name Ramakam maay				
21. ANII	D Frotone		Name Robert Hogstron	ı			
PV-E0093 Ver. \$	Signature	Date		730P-9ZZ17			

CONTRACTOR AND THE RESPONDED FOR THE SECOND PROCESS OF THE SECOND

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 07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of _____ __ Unit __ 2. Plant Palo Verde Nuclear Generating Station 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 None 3. Work Performed by NWS Technologies Type Code Symbol Stamp N/A Authorization No. 131 Venture Bldg., Spartanburg, S.C., 29301 Expiration Date N/A SG - Main Steam 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 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 Repaired ASME Code Manufacturer **National** Other Year Name of Name of Stamped Manufacturer Serial No. Board No. Identification Item Built (Yes or No) Replacement Yes ADG03 BS-08608 2001 Disc N/A Replacement Dresser Yes Disc Dresser ADG04 N/A BS-08618 2001 Replacement BS-08634 2001 Replacement Yes Disc Dresser ADE36 N/A Disc Dresser ADG00 N/A BT-01670 2001 Replacement Yes 2001 Replacement Yes Disc Dresser ADG01 N/A BT-01672 No 2002 | Replacement Spindle Dresser N/A N/A BT-01672 BT-01672 No Dresser AAC67 N/A 2002 Replacement Spring assembly 7. Description of Work Off-site overhaul and testing of spare main steam safety valves. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 Test Temp. Other [] Pressure

to entre process is grown to be a compared without the state of the second of a compared to the state of the second of the secon

(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.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in.,

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 07/10/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 2 of 2. Plant Palo Verde Nuclear Generating Station _____ Unit ____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2511997 None 3. Work Performed by NWS Technologies Type Code Symbol Stamp Authorization No. N/A 131 Venture Bldg., Spartanburg, S.C., 29301 Expiration Date N/A SG - Main Steam 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 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 Repaired ASME Code Manufacturer National Year Name of Name of Other Stamped Board No. Identification Built Item Manufacturer Serial No. Replacement (Yes or No) Disc ADG02 N/A BS-08622 2001 Replacement Yes Dresser 2002 Replacement Spindle Dresser N/A N/A BS-08622 No Disc Dresser ADE37 N/A BS-08573 2001 Replacement Yes Spindle N/A BS-08573 2002 Replacement No Dresser N/A ADE19 Yes Disc N/A BS-08587 2001 Replacement Dresser No Spindle Dresser N/A N/A BS-08587 2002 Replacement 7. Description of Work Off-site overhaul and testing of spare main steam safety valves. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 T Other □ Test Temp. 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 N	IS-2 (Bad	k)	
9.	Remarks	Work order # 2511997 safety valves. A new d replaced as needed bas from approved purchas	esigned Disc will ed upon inspectio	be installed to en	nditioning and testing on hance performance. On ill be obtained from oth	ther parts will be
	We certi	fy that the statements m	CERTIFICATE			forms to the rules
•		SME Code, Section XI.			repair or replacement	
	Type Co	de Symbol Stamp	N/A			
	Certifica	te of Authorization No.	N/A		Expiration Date _	N/A
	.Signed_	alan W	fouceur Owner or Owner's Design	IST Engle	Date	9/25/02
						*
		CER	TIFICATE OF I	NSERVICE IN	ISPECTION	
,	Inspecto of <u>Ha</u> the perio belief, th	dersigned, holding a valid rs and the State or Proventford, Connecticut and the State of Provention accordance with the result of the state of the s	ince of <u>Arizona</u> , have inspected to o <u>v-a-o2</u> examinations and	and employed the components and sta I taken corrective	d by HSB C described in this Owne te that to the best of my e measures described i	r's Report during y knowledge and
	concerni neither ti	ng this certificate, neithe ng the examinations and he Inspector nor his emp or a loss of any kind an	d corrective meas ployer shall be liab	ures described in the in any manne	n this Owner's Report. Ir for any personal injur	Furthermore,
		2 A Letter	ur e	_ Commissions	National Board, State, Province	
	Date_	10-9-02			t	• .

ASME SECTION XI - REPAIR/REPLACEMENT						
1. Component ID 1JRCEPSV0203 2. C	Code Class ASME III, CLASS 1					
'3. Item Description PRESSURIZER SAFETY VALVE; DRESS	ER 31709N; 2460 PSIG					
4. N-5 Package Number <u>1RC03-2</u> 5. W	V.O. Number 2511998					
6. Original Construction Code Edition ASME III CLASS 1, 1974						
7. Original Installation Code Edition ASME III CLASS 1, 1974 E						
8. Work Description Off site reconditioning and testing of spare vi	alve in preparation for replacement of existing					
installed valve. Parts will be replaced based to	ipon inspection.					
9. ISI Flaw NDE Method of Flaw Deta	ection					
Report Numb	per					
Evaluation of the suitability of this work as per the requirement	s of IAW-4150.					
No failure in the ASME Sec. III boundary.						
11. Repair/Replacement Work Organization <u>NWS Technologies</u>						
12. Replacement Item Construction or reconciled Code/Edition AS	ME III CLASS 1, 1974 ED., S'75 ADD.					
13. Repair/Replacement Activity Construction Code/Edition ASME						
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 AI						
46 B	☐ YES ☑ NO					
DMG 06/03/02 If required, include a step in the W.O.	·					
16. ASME Section XI Pressure Test Required	YES INO					
DMG 06/03/02 If required, include a step in the W.O.	· · · · · · · · · · · · · · · · · · ·					
DMG 06/03/02 17. Include a step in the W.O. to com	plete NIS-2 Form prior to releasing the component.					
	ord below all applicable numbers for repaired or					
ITEM I.D. PART NO. SERIAL NO.	HEAT NO. MR/ROS NO.					
1JRCEPSV0203 N/A BY-14538	HEAT NO. MR/ROS NO. N/A N/A					
Disc 4502-0245 ABK 32	L3181 PO 33207018					
19. Planner 22 21 Doodlot 6-3-02 P	Print Name David Goodlet					
20. ISI Engineer Phoda 6-4-02 P	Print Name Ramakant Indap					
Signature Date 1. ANII						

FOR	M NIS-2 OWNE As Required	ER'S REPO I by the Provis	RT.FOR	REI e ASN	PAIR!	S OF de Se	REPLAC	EMENTS
1. Owner <u>Arizon</u>	a Public Service Co	ompany, et. al.			Date _		07/10/02	
	ox 53999, Phoenix,						1 of	2
2. Plant Palo Ve	erde Nuclear Gener	Mama					1	
<u>5801 S.</u>	. Wintersburg Rd.,	Tonopah, Ariz	<u> 20na 85354</u>	<u>-7529</u>			2511998 Work Order Number	
3. Work Performed	by PVNGS Mainte	enance Dept.					mbol Stamp	
5801 S	. Wintersburg Rd.,	Tononah, Az.	R5354-752					<u>VA</u> /A
4. Identification of S		Address actor Coolant sy			Expiration	OU Pare	3 17/	'A
5. (a) Applicable Co	onstruction Code ASM	ME III Class 1	19 74					-
	components Repaired o	•	•	•	nents		1772	- Radio,
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Ot Identif	ther fication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Disc	Dresser	ABK32	N/A	BY-1	14538	2002	Replacement	No
,	 							·
•		<u> </u>						
			 	-				
								1
7. Description of Work Off-site overhaul and testing of spare pressurizer safety valves. 9. Test Conducted: Hydrostatic □ Pneumatic □ Nominal Operating Pressure □ Exempt ☑ N-416-1 □								
·	Other 1	Pressure	psi		ד	Test,Te	mp	_°F
e) information in ite	ntal sheets in form of I ems 1 through 6 on t ets is recorded at the	this report is incli	duded on eac	may be ch shee	eused, pet, and (provido (3) eac	ed (1) size is 8 h sheet is num	1/2 x 11 in., bered and

		FORI	VI NIS-2 (Ba	ick)			
9.	Remarks	Work order # 2511998, for off-sit Replacement parts will be obtained	e reconditioning and d from approved spa	testing of 4 spare pressurizer safety valves. res.			
		CERTIFIC	CATE OF COMPL	IANCE			
	We certify of the AS	fy that the statements made in the r SME Code, Section XI.	eport are correct and	this replacement conforms to the rules repair or replacement			
	Type Coo	de Symbol Stamp N	//A				
	Certificate	te of Authorization No. N	//A	Expiration DateN/A			
	i	alan Monon Owner or Owner		Date 9/25/02			
		CERTIFICATE	OF INSERVICE I	NSPECTION			
	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford. Connecticut</u> , have inspected the components described in this Owner's Report during the period <u>1-7-02</u> to <u>10-14-02</u> , 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.						
		B. L. Lytera. Inspector's Signature	Commissions	National Board, State, Province, and Endorsements			
	Date	6-9-02					

	ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID	1MRCEA13	2. Code C	lass ASME Section I	II, Class 1				
3. Item Description	n REACTOR COOLANTS	SYSTEM PRESSURIZER	HEATER					
4. N-5 Package N	lumber 2RC01-1A	5. W.O. N	umber <u>2514365</u>					
6. Original Constr	6. Original Construction Code Edition ASME Section III, Class 1, 1971 Edition, Winter 1973 Addenda							
7. Original Installa	7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 1975 Addenda							
8. Work Descripti	Replace Defective Pressu Heater Sleeve.	rizer Heater, Make Fillet	Weld between Pressur	izer Nozzle and new				
	neatet Sieeve.							
_								
9. 🔲 ISI Flaw								
10 Evaluation of t	the sultability of this work as	Report Number Nu						
	tion of Heater Failed, No Fa	•						
				· · · · · · · · · · · · · · · · · · ·				
11. Repair/Replace	ement Work Organization A	APS						
, ,	tem Construction or reconcil		Sec.III Cl.1/71 Edition	'73 Winter Addenda				
	ement Activity Construction (
· ·	XI Code/Edition ASME Se	•	•					
15. Preservice Ins	pection Required.	П	res 🗹 no)				
N/A 5/1	•	de a step in the W.O. to pe						
A 11000		_						
	·XI Pressure Test Required パックゥン If required, includ	e a step in the W.O. for IS		•				
Initial	Date	p in the W.O. to complete	•	leasing the component				
Initial	Pate	p in the W.O. to record be						
Initial	Date replaced item		• •	bers for repaired or				
COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
Heater	44450049	46J	N/A	691125				
19. Planner Kul	NC	\$16/2002 Print N	In Variable	l				
19. Planner 	Signature	Date	lame <u>Karl V. Savage</u>					
. ISI Engineer_	Signature	5/16/62 Print N	lame Ramakant P. Ind	ар				
21. ANII '	Pot & Latine		lame Robert G. Hogst	rom				
	Signature	Date						

1. Owner: Arizo	na Public Service	Company, et. al.	,	· I	ate: <u>06/21/2</u> 0	002		
P. O.	Box 53999, Phoen	ix Arizona 85072	<u>-2034</u>	S	Sheet: 1 of 2			
2. Plant: Palo	Verde Nuclear Gen	erating Station		τ	nit: 1	•	,	
<u>5801</u> :	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529 V	Vork Order Nu	ımber <u>2514365</u>		
3. Work Performed by: Arizona Public Service					ype of Code S	tamp None		
				A	uthorization N	Io. <u>N/A</u>	•	
·					xpiration Date	: <u>N/A</u>		
4. Identification of	4. Identification of System: RC. ASME Section III, Class 1							
5. (a) Applicable	Construction Code	ASME Section III N	VB. Class 1	1971 Edition,	Winter 1973 A	Addenda, C	ode Case	
(b) Applicable	Edition of Section 2	CI Utilized for Repa	airs or Replace	ments: <u>1992</u>	Edition, 199	2 Addenda		
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificati	Year on Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
Heater	Watlow	N/A	N/A	1MRCEA13	02	Replacement	NO	
			. •					
•							,	
	•							
	•							
7. Description of Work: Replace Defective Pressurizer Heater, Make Fillet Weld between PZR Nozzle and Htr. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1								
Ott	Other Pressure psi Test Temperature F							
	amantal shacts in f	nom of lists alocal	haa aa daaaa	,	والمتعدد المومود	! (1) ains is 0 ! ()	V 11	
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include					

FORM NIS-2 (Back)

Remarks: Work Order# 2514365 To Replace Pressurizer Back-Up Heater 1MRCEA13.

C	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	the report are correc	t and this replacement conform	ns to the rules of
Type Code Symbol Stamp	_N/A		
Certificate of Authorization No Signed: PP PO Golf Consultation Owner's			

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	by the National Board of boiler and Pressure Vessel inployed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have eport during the period of <u>S-21-0-2</u> of my knowledge and belief, the Owner has performed ped in this Owner's Report in accordance with the					
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.						
Inspectors Signature	Commissions: NB 9685 "N" "T" AZ264 National Board, State, Province, and Endorsements					
Date: 6-3-02						

		ASME SECTION	ON XI - REPAIR/R	EPLACEMENT	Page of	
	1. Component ID 1PC	CHNV816	2. Code C	lass ASME III CLASS	2	
	3. Item Description 1-	1/2" BORG WARNER '	'Y" TYPE GLOBE VAL	VE		
	4. N-5 Package Numb	er <u>1CH14-3</u>	5. W.O. Nu	ımber <u>2540753</u>		
	6. Original Construction	n Code Edition 1974 EI	DITION, WINTER 1975	ADDENDA		
	7. Original Installation	Code Edition 1974 EI	DITION, WINTER 1975	ADDENDA	·	
	8. Work Description Disassemble valve, inspect for cause of seat leakage and rework as necessary. Remove and replace bonnet seal weld for access for inspection of valve internals.					
	9. ISI Flaw NDE Method of Flaw Detection					
	10. Evaluation of the suitability of this work as per the requirements of IWA-4150. No failure in the ASME Sec. III boundary. The existing bonnet seal weld needs to be removed for access to inspect valve internals.					
	11. Repair/Replacemen	nt Work Organization P	VNGS maintenance depa	rtment.		
	, ,		ed Code/Edition ASME I		W'75 Add.	
	13. Repair/Replaceme	nt Activity Construction C	Code/Edition ASME II	II, CLASS 2, 1974 Ed.,	W'75 Add.	
	· '	•	TION AND 1992 ADDEN			
	15. Preservice Inspect		☐ YES			
	DMG 08/26/02		step in the W.O. to perfo	rm Preservice Inspection	n.	
•	6 ASME Section XI P	ressure Test Required	☐ YES	Ø NO		
	DMG 08/26/02	•	step in the W.O. for ISI &	14 E S 10 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N 1 N		
	Initial Date	17. Include a step in	the W.O. to complete NIS	S-2 Form prior to releasi		
ı	initial Date	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.	
	Seal Weld	n/a	n/a	n/a	n/a	
	•					
	19. Planner Sand	M Dodlst Signature Signature	Date	Name <u>David Goodlet</u> Name <u>Ramakant Indap</u>		
	21. ANII	Signapho	8-29-02 Print I	Name Robert Hogstrom	·	

1. Owner <u>Arizona</u>	Public Service Co	mpany, et. al.			Date		08/26/02	
	53999, Phoenix.							
2 Plant Palo Ver	de Nuclear Genera		·		Unit		1	
5801 S. V	Wintersburg Rd.,	lame Conopah, Arize	ona 85354-	7529			2540753	
<u> </u>	A A	ddress		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>			Work Order Number	
3. Work Performed b	3. Work Performed by PVNGS Maintenance Department Type Code Symbol Stamp None							None
	•				Authoriz	ation N	o. <u>N</u>	<u>/A</u>
5801 S.	5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 Expiration Date N/A						A	
.	A	ddress	a .	•				
4. Identification of Sy	stem <u>CH - Cher</u>	mical and Vol	umn Contro	ol				· · · · · · · · · · · · · · · · · · ·
5. (a) Applicable Cor	nstruction Code ASM	IE III Class 2	19 74	Edition,	W'75	Adde	anda,	Code Case
						-		
(b) Applicable Edi	tion of Section XI Utiliz	zed for Repairs of	r Heplacemer	11S 19	92 Edit	.ion,	1992 Adder	ida
6. Identification of Co	mponents Repaired o	r Replaced and F	leplacement (Compo	nents			
	·	1	1	1		Γ	Repaired	ASME Code
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.		ther ification	Year Built	l 'or	Stamped
Bonnet Seal Weld	n/a	n/a	n/a		INV816	 	Replacement	No No
		·						
		<u> </u>						
				·				·
 			<u> </u>			L	<u> </u>	<u> </u>
7. Description of World	k Remove bonnet	seal weld to a	llow for ins	spection	on and r	eworl	c of valve inte	rnals.
						_		
8. Test Conducted:	Hydrostatic P	neumatic 🔲	Nominal Ope	erating	Pressure	u	Exempt 🗹	N-416-1 🔲
	Other 🔲	Pressure	psi			Test To	emp.	°F
	••							
NOTE C	tal abanta !- d	المحادد ما المحادد	a.u. alual				dad (4) aisa is f	1 1 M v 11 in
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)
) .	Remarks	WO# 2540753 will remove the bonnet seal weld to allow access to 1-1/2" globe valve 1PCHNV816 internals for inspection and rework to correct seat leakage.
		CERTIFICATE OF COMPLIANCE
	1	ify that the statements made in the report are correct and this replacement conforms to the rules SME Code, Section XI.
	Type Co	ode Symbol Stamp
	Certificat	te of Authorization No. N/A Expiration Date N/A
	Signed _	R.L. Brancount Dela Super Designee, Title Date Date
		CERTIFICATE OF INSERVICE INSPECTION
	Inspector of <u>Har</u> the period belief, the	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel ors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> artford. Connecticut , have inspected the components described in this Owner's Report during od <u>*-24-02</u> to <u>10-10-02</u> , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's the accordance with the requirements of the ASME Code, Section XI.
	concerning neither the	ing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ing the examinations and corrective measures described in this Owner's Report. Furthermore, he Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
		Commissions N6 9685 "MIC" Az 264 Inspector's Signature Commissions N6 9685 "MIC" Az 264 National Board, State, Province, and Endorsements

Date_

Station 7545

2

	ASME SECTIO	N XI - REPAIR/RI	EPLACEMENT	Page of	
Component ID 1JR	CEPV0100E	2. Code Cl	ass ASME Section III C	lass 1	
•	ssurizer Spray Control V	/alve			
4. N-5 Package Numbe	r <u>1RC01-1</u>	5. W.O. Nu	mber <u>2556794</u>		
6. Original Construction	Code Edition ASME S	ection III, Class 1, 1974	Edition, Winter 1975 Add	denda	
7. Original Installation (Code Edition ASME See	ction III, Class 1, 1974 Ed	dition, Winter 1975 Adde	nda	
8. Work Description Re	place the plug/stem asse	mbly during valve repack	<u>.</u>		
9. ISI Flaw	NDE M	lethod of Flaw Detection			
	A. A. 101.	Report Number	/A 4150		
10. Evaluation of the su No failure of ASM an ALARA effort.	itability of this work as p E III pressure boundary.	er the requirements of IW. The stem needs to be rep	placed. Replacing the plu	g/stem assembly is	
dd Danaid Danis ann an	t Mode Organization A	rizona Public Service			
	t Work Organization A	d Code/Edition ASME I	II Class 1 1974 Edition.	W 1975 Addenda	
T					
	13. Repair/Replacement Activity Construction Code/Edition ASME III, Class 1, 1974 Edition, W 1975 Addenda 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda				
15. Preservice Inspecti		SI AND 1992 ADDENDE	Ø NO		
BV 09/26/02	*	step in the W.O. to perform		•	
Initial Date		or the second possession in the second possess		•	
16. ASME Section XI P		YES	☑ NO		
BV 09/26/02	_ If required, include a	step in the W.O. for ISI &	ANII Inspection.		
BV 09/26/02	_ 17. Include a step in	the W.O. to complete NIS	S-2 Form prior to releasing	g the component.	
Initial Date BV 09/26/02	18. Include a step in	the W.O. to record below	all applicable numbers f	or replacement items.	
Initial Date	-		HEAT NO.	MR/PO/WO NO.	
ITEM I.D. 1JRCEPY0100E Plug	PART NO.	SERIAL NO. 583657-3	5133657-3	2556794	
IJKCLA JOIOOD TING		2132/827			
		,			
				·	
19. Planner Subara Vidal 10/3/02 Print Name Barbara Vidal					
19. Planner / Ohr	Signature Vilal	/0/3/02 Print	Name Barbara Vidal		
	· Signature	10/3/02 Print	·	lorrow	
	· Signature	AJETE -	·	lorrow	
	Signature Signature	now 10/3/02 Print	·		

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 _______ Date _______ Date _______ P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit _____ Unit _____ Name S801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2556794 Work Order Number 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None Authorization No. ____ N/A 5801 S. Wintersburg Rd Tonopah AZ 85354 Expiration Date N/A RC - Reactor Coolant System 4. Identification of System 5. (a) Applicable Construction Code ASME Sec III Class 1 1974 Edition, '75 W Addenda, W'75 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 Repaired ASME Code Manufacturer National Other Year Name of Name of Stamped Board No. Identification Built Item Manufacturer Serial No. Replacement (Yes or No) N/A 1JRCEPV100E 1995 Replacement Yes SB3657-3 Press Cont Vlv Plug Fisher 7. Description of Work Pneumatic Nominal Operating Pressure Exempt N-416-1 8. Test Conducted: Hydrostatic Test Temp. _____°F Pressure psi Other 🔲 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)
).	Remarks	No failure of ASME III pressure boundary. The stem needs to be replaced. Replacing the plug/stem assembly is an ALARA effort. WO# 2556794.
		CERTIFICATE OF COMPLIANCE
	1	fy that the statements made in the report are correct and this replacement conforms to the rules GME Code, Section XI.
	Type Co	de Symbol StampN/A
	Certificat	te of Authorization No. N/A Expiration Date N/A
	1	FRANCE CONSULTING METALLUNG TEST ENGINEER Date 10-23-02
		CERTIFICATE OF INSERVICE INSPECTION
	Inspector of <u>Har</u> the period belief, the	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel rs and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> rtford, Connecticut, have inspected the components described in this Owner's Report during d <u>\oldsymbol_3-\oldsymbol_2</u> to <u>\oldsymbol_23-\oldsymbol_2</u> , and state that to the best of my knowledge and e Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
	concernir neither th	ng this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, and the examinations and corrective measures described in this Owner's Report. Furthermore, the inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
		Commissions N8 9685 "ANIC" Az. 264 (Inspector's Signature National Board, State, Province, and Endorsements
	Date	10-23-02

	ASME SECTION 2	XI – REPAIR / REPL	ACEMENT			
			Pag	ge of		
'. Component ID 1PC005H0	015	2. Code Class AS	ME Section III Subsec	tion NF Class 3		
3. Item Description: 1/4 KIP	Snubber					
4. N-5 Data Package Number		5. W.O. Number: 2	<u> </u>			
6. Original Construction Cod		Summer 1976 Addenda				
7. Original Installation Code		inter 1975 Addenda				
 Work Description: <u>Replay</u> ISI Flaw 	ace Snubber	NDE Method of Flaw De	teation:			
9. [] 101 Flaw		Report Number:	ction.			
10. Evaluation of the suitabil	ity of this work as per the re	-	•			
	-	his is a like-for-like replace				
 Repair/Replacement Wor Replacement Items Const 	ruction or reconciled Code	/Edition: Sec. III NF Cl 3,				
13. Repair/Replacement Acti			4 Edition, Winter 197	5 Addenda		
14. ASME Section XI Code/I	***************************************	d 1992 Addenda				
15. Preservice Inspection Rec		⊠ YES □ NO				
Initial My Date 10	-15-02 If required,	, include a step in the W.O.	to perform Preservice	Inspection		
16. ASME Section XI Pressu	re Test Required:	☐ YES 🔯 NO				
initial Dung Date 10	-15-02 If required	, include a step in the W.O.	for ISI & ANII Inspec	tion.		
Initial Dyf Date 10	17 Includ	e a step in the W.O. to com	plete NIS-2 Form prior	r to releasing the		
Initial My Date 14	18. Include replacement	e a step in the W.O. to recont items.	rd below all applicable	numbers for repaired or		
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.		
1PC005H015	1801104-05	14461	n/a	MR 688817		
						
) 					
	·					
19. Planner Dock 10-15-02 Printed Name: David Goodlet 20. ISI Block 10-16-02 Printed Name: R.P. INDAP						
20. ISI Signature	0	6-02 Printed Name:	R.G. HOUSTRO	HDAD		
21. ANII KA Typ tone		Printed Name:	K.C. Houstron	4		
PV-E0093 Ver. 7				73DP-9ZZ17		

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

As Required by the Provisions of the ASME Code Section XI

· · · · · · · · · · · · · · · · · · ·		_			_		_	
1. Owner: <u>Arizo</u>	na Public Service (Company, et. al.		•	Date:	10/10/200	<u>2</u>	
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	<u>2034</u>		Sheet:	1 of ;	2	
2. Plant: Palo V	erde Nuclear Gene	erating Station			Unit:	1		
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	<u> 4-7529</u>	Work	Order Nun	aber <u>2558858</u>	
3. Work Performe	d by: Arizona Public	Service			Турс	of Code Sta	mp <u>None</u>	
•					Autho	rization No	. <u>N/A</u>	
Expiration Date N/A								
4. Identification of System: PC: Pool Cooling								
5. (a) Applicable	Construction Code /	ASME Section III N	VF. Class 3	1974 Edition	ı, <u>Sum</u>	mer 1976 A	Addenda,(Code Case
(b) Applicable	Edition of Section 2	A Utilized for Repa	airs or Replace	ments: <u>199</u>	2 Edit	ion, 1992	<u>Addenda</u>	
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Componen	ts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
1/4 Kip Snubber	Pacific Scientific	14461	n/a	1PC005H	015	1980	Replacement	YES
•		1						
					-			
7. Description of \	Work: Snubber rep	placement: no wel	ding.					
8. Test Conducted		Pneumatic	Nominal O	perating Pre	ssure	∏ Exc	empt ⊠ N-4	‡16-1 □
		ure psi		.		_	re °F	_
	<u>-</u>			·				
	emental sheets in formation in items 1							
	of sheets is record							

FORM NIS-2 (Back

Remarks: WO# 2558858 removed snubber 1PC005H015, s/n 38087 and replaced with s/n 14461.

Certificate of Compliance						
We certify that the statements made in the r the ASME Code, Section XI.	eport are con	rect and this replace	ment conf	forms to the rules of		
Type Code Symbol Stamp	N/A	<u> </u>	•			
Certificate of Authorization No.	N/A	Expirati	ion Date:	N/A		
Signed: Okan Morrow Owner or Owner's Design	Sr IST	Engineer	Date:	L. 10/22/02		
Owner a Owner a Design	gues, mis					

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and eminspected the components described in this Owner's re	ployed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have port during the period of <u>10-16-02</u>
to, and state that to the best of examinations and taken corrective measures described requirements of the ASME Code, Section XI.	of my knowledge and belief, the Owner has performed ed in this Owner's Report in accordance with the
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures de the Inspector nor his employer shall be liable in any maloss of any kind arising from or connected with this insp	escribed in this Owner's report. Furthermore, neither mner for any personal injury or property damage or a
Inspectors Signature	Commissions: NB 9685 "N" "T" A Z264 National Board, State, Province, and Endorsements
Date: 10-22-02	

PV-E0092 Ver. 7 Back

	ASME SECTION	XI - REPAIR / REPI	ACEMENT	
		•	Pa	gei_ofi
1. Component ID 1SI240H0	03	2. Code Class AS	ME Section III Class	1
3. Item Description: Restrain	t on Shutdown Cooling Lo	oop 1 Piping		
4. N-5 Data Package Number:	1SI07-5	5. W.O. Number:	<u>2558933</u>	
6. Original Construction Cod	e Edition: 1974 Edition.	Winter 1975 Addenda		
7. Original Installation Code				
		and pin with components fro		riginally installed at
9. ☐ ISI Flaw	9HOUSE, which was remo	oved from service by WO 23 NDE Method of Flaw De		
7. [] ISI FIAW		Report Number:	tection:	
10. Evaluation of the suitabili	ty of this work as per the t	•	•	
	-y or and note up pot up t		-	
I				
11. Repair/Replacement World				
12. Replacement Items Const				•
13. Repair/Replacement Activ			Solition 1975 Winter A	ddenda
14. ASME Section XI Code/E		nd 1992 Addenda		
15. Preservice Inspection Req	uired:	☐ YES ☑ NO		
Initial MA JA Date 10	-19-03 If required	, include a step in the W.O.	to perform Preservice	Inspection
16. ASME Section XI Pressur		☐ YES ☒ NO		
	·	, include a step in the W.O.	for ISI & ANII Inspec	etion.
Initial MAJO Date 10		-	-	
Initial J.D Date 10	17. Includ	le a step in the W.O. to com	plete NIS-2 Form prio	r to releasing the
		•		
Initial A.D. Date 10	2-19-03 replacemen	e a step in the W.O. to recont items.	rd below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Bearing and pin assembly	N/A	13238	N/A	WO 2325130
bearing and pin assembly	N/A	13238	N/A	WU 2323130
		<u> </u>		
		<u> </u>		
				
			<u> </u>	
19. Planner Signature	flow 10.	/9-03 Printed Name:	James I. Davis	
20. ISI <u>Alan</u> 7	your 101	Printed Name: 9-02 Printed Name:	Alan Moi	row
Signature	D	Pate		
21. ANII Re fortane	·0-r	9-0Z Printed Name	RG. HOLESTRO	н
Signature	D	kte Finited Name.		

PV-E0093 Ver. 7

73DP-92Z17

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona</u>	Owner Arizona Public Service Company, et. al.						1	0/21/02	
	x 53999, Phoenix,								
2. Plant Palo Ve	erde Nuclear Genera				Unit			1	·
	Wintersburg Rd., 7	^{Name} Tonopah, Arize					255	58933	
l	•	Address				-	Work On	der Number	
3. Work Performed b	by Arizona Public	Service Name			Type Co	ode Syr	nbol St	amp	None
					Authoriz	ation N	lo	N	VA
5801 S.	Wintersburg Rd.,	Tonapah, Arizo	ona 85354-	<u>-7529</u>	Expiration	on Date	·	N/	<u>'A</u>
4. Identification of Sy									
·	, , , , , , , , , , , , , , , , , , , ,								
5. (a) Applicable Co	onstruction Code ASM	/IE Sect III, Cl	1 19 74	Edition,	. <u>W75</u>	_ Adde	∍nda, _		_ Code Case
(b) Applicable Ed	dition of Section XI Utiliz	zed for Repairs or	r Replacemer	nts 19	<u>92</u> Edi	tion, _	1992	Adde	nda
a literationalism of C	Damainad a	= - transland f	- 4ausi						
6. Identification of G	omponents Repaired or	r Hepiacea ana n	leplacement c	Compor	nents		- 	· 	
Name of		Manufacturer	National	0	ther	Year		paired or	ASME Code Stamped
Item	Manufacturer	1	9						(Yes or No)
Strut	Corner & Lada	1SI240H005	N/A	1SI24	40H003	 	Repai		Yes
Bearing/Pin assy.	Pacific Scientific	13238	N/A	1SI24	40H003	1981	Repla	acement	No
· · · · · · · · · · · · · · · · · · ·									
									·
				 					
	<u> </u>	<u></u>	L	L			L		<u>L</u>
7. Description of Wor	rk Replace the bear	ring and pin as	sembly in	the str	ut padd	le for	1SI24	10 <u>H003.</u>	
· · ·									
8. Test Conducted:	Hydrostatic P	neumatic 🔲	Nominal Ope	arating F	Pressure		Exem	pt 🗹	N-416-1 🔲
	Other	Pressure	psi			Test To	emp		_°F
	•					•			
NOTE: Supplemen	ntal sheets in form of	lists. sketches.	or drawings	s may t	् be used.	provic	ded (1)	ı size is £	3 1/2 x 11 in.,
(2) information in it	tems 1 through 6 on t	this report is inc	duded on ea						
nic manner of our	10 10 LECOLAGE ET #10	toh or mes iour	1.						. 1

PV-E0092 Ver. 7

FORM NIS-2 (Back)

Remarks	from a shock arrestor that	t was removed from 1SI15	assembly. These components 9H003B by work order 2325 serial numbers were verified	130 and had been
	CI	ERTIFICATE OF COM	IPLIANCE	
	ify that the statements mad SME Code, Section XI.	le in the report are correct	and this repair confe repair or replacement	orms to the rules
Type Co	ode Symbol Stamp	N/A		
Certifica	te of Authorization No.	N/A	Expiration Date	N/A
Signed_	alan Morro	ner or Owner's Designee, Tide	Legineer Date	10/22/02
L				
	CERTIF	FICATE OF INSERVIC	E INSPECTION	
Inspector of <u>Ha</u> the perior belief, the	CERTIF dersigned, holding a valid or s and the State or Province rtford, Connecticut , had to to	commission issued by the I se of <u>Arizona</u> and empave inspected the compon so are inspected to taken companions and taken companions and taken companions.	National Board of Boiler and loyed by HSB CT ents described in this Owner d state that to the best of myective measures described in	's Report during knowledge and
Inspector of Ha the perior belief, the Report in By signing concerning neither the	dersigned, holding a valid or and the State or Province of the State or Province of the State of Province of the State of	commission issued by the Inspector nor his employ corrective measures described.	National Board of Boiler and loyed by HSB CT ents described in this Owner'd state that to the best of my ective measures described in the, Section XI. Wer makes any warranty, expended in this Owner's Report. Fanner for any personal injury	's Report during knowledge and this Owner's ressed or implied, furthermore,
Inspector of Ha the period belief, the Report in By signing concerning neither the damage	dersigned, holding a valid ors and the State or Province of the state of Province of the state of Province of the state of	commission issued by the I se of Arizona and empave inspected the compon to 22-02, and aminations and taken corrective measures described as a second of the ASME Code of the Inspector for his employ corrective measures described as a second of the ASME code of the Inspector for his employ corrective measures described of the ASME code of the Inspector for his employ corrective measures described of the Inspector for his employ corrective measures described of the Inspector for connected with the Inspector for connected wit	National Board of Boiler and loyed by HSB CT ents described in this Owner'd state that to the best of my ective measures described in the, Section XI. Wer makes any warranty, expended in this Owner's Report. Fanner for any personal injury	's Report during knowledge and this Owner's ressed or implied, furthermore, or property

	ASME SECTION 2	XI – REPAIR / RE	PLACEMENT	RPI 75-02
			Pag	ge 1 of <u>x2</u>
1. Component ID 1PRCELO:	51	2. Code Class	ASME Section III Class	
3. Item Description: Shut Do	wn Cooling Line			
4. N-5 Data Package Number:	1RC-01	5. W.O. Number	er: <u>2560340</u>	
6. Original Construction Cod	e Edition: 1974 Edition, Su	ımmer 1975 Addenda		
7. Original Installation Code				
8. Work Description: Blend			ooling (SDC) line 1PRCEL	.051 upstream of valve
9. ☐ ISI Flaw	51 per DFWO 2560318 ins	NDE Method of Flaw	Detection:	
5. [] 151 Piaw		Report Number:	Decouon.	
10. Evaluation of the suitabil	ity of this work as per the re		150:	
	used by the line vibration v	-		pipe and the metal
	spection indicates no violat			
CRDR#2557486		<u></u>		
11. Repair/Replacement Wor	k Organization: Arizona	Public Service		
12. Replacement Items Const	ruction or reconciled Code	Edition: Sec. III Cl 1, 1	1974 Edition, Summer 197	5 Addenda
13. Repair/Replacement Acti	vity Construction Code/Edi	tion: Sec. III Cl 1, 19	74 Edition 1975 Winter A	ddenda
14. ASME Section XI Code/I	Edition: 1992 Edition an	d 1992 Addenda		
15. Preservice Inspection Rec	quired:	☐ YES 🔯 1	40	
Initial MA Date	If required	include a step in the W	7.O. to perform Preservice	Inspection
16. ASME Section XI Pressu		☐ YES		and the second
	-		/.O. for ISI & ANII Inspec	ction.
Initial ~/A Date			_	
Initial Date	17. Includ		complete NIS-2 Form prior	r to releasing the
			record below all applicable	numbers for renaired or
Initial MA Date	replacemen		record below all applicable	, numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
-				
	<u>.</u>	•		
11/1/	/	<u> </u>		
19. Planner	ku 19/5	Printed Na	me: Habbart G	ess.
Signature		Jane 4	- / -	\sim
20. ISI //	10/18	Printed Na	me: Kobrel	Bravino
Signature				
21. ANII It System	10-45	Printed New	me: R.C. Houste	Lom
Signature		Date Finited Na		•
4.0				

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	ASME SECTION 2	XI – REPAIR / REF		e_2_of_2_
1 Component ID 1DD CELO	70	2 Code Class	ASME Section III Class 1	
Component ID <u>1PRCEL0</u> Item Description: RC Loop		2. Code Class 2	ADVID Decidi III Class I	
4. N-5 Data Package Number	···	5. W.O. Number	: 2560340	
6. Original Construction Cod				
7. Original Installation Code	· · · · · · · · · · · · · · · · · · ·			
8. Work Description: Blend		ouges on RC Loop #2 Dra	ain line line 1PRCEL070	upstream of valve
9. ISI Flaw		NDE Method of Flaw I	Detection:	
		Report Number:		
10. Evaluation of the suitabil	ity of this work as per the re	equirements of IWA - 41	50:	
This fretting damage is ca	used by the line vibration v	which resulted in relative	movement between the p	ipe and the metal
insulation .Preliminary in	spection indicates no violat	ion of design min. wall.]	The vibration is being add	ressed under
CRDR#2557486				
11. Repair/Replacement Wor	k Organization: Arizona	Public Service		
12. Replacement Items Cons	ruction or reconciled Code	Edition: Sec. III Cl 1, 19	774 Edition, Summer 1975	5 Addenda
13. Repair/Replacement Acti	vity Construction Code/Edi	tion: Sec. III Cl 1, 197	4 Edition 1975 Winter Ac	idenda
14. ASME Section XI Code/	Edition: 1992 Edition an	d 1992 Addenda		
15. Preservice Inspection Re	quired:	☐ YES No	o	
Initial //4 Date	If required	, include a step in the W.	O. to perform Preservice	Inspection
16. ASME Section XI Pressu	re Test Required:	☐ YES 🔯 N	10	
•	, -	include a step in the W.	O. for ISI & ANII Inspec	tion.
Initial <u>~/A</u> Date	•	-	omplete NIS-2 Form prior	
Initial Date	for component		omplete 1415-2 Form prior	to releasing the
Initial ~/A Date			ecord below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Tem ID	1 41 1 1 1 0 .	Bermi ivo	2,100,110,1	1,2202 0, 11 0
		 		
		·		
			,	
		_		
			·	-
19. Planner Signature	ha 196	Printed Name	ne: <u>HenBe</u> at L	. bleen
٠.		Y67 Brinted Nam	e Alan Mo	row
20. ISI Signature		Date Timed Main		
Mhd_	_		or it	
21. ANII Signature	6 →2	Printed Nam	ne: R.G. Housta	COM
Signature PV-E0093 Var. 7		Jan.		73DP-4ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizon	na Public Service (Company, et. al.		Date:	10/15/200	2	, , <u> </u>
P. O. E	Box 53999, Phoeni	x Arizona 85072-	2034	Sheet	: <u>1</u> of	<u>2</u>	
2. Plant: Palo V	erde Nuclear Gene	erating Station		Unit:	1		<u>.</u>
5801 S	outh Wintersburg	Road., Tonopah,	Arizona 8535	4-7529 Worl	Order Num	aber <u>2560340</u>	
3. Work Performe	d by: <u>Arizona Publi</u>	Service		Туре	of Code Sta	mp None	
				Auth	orization No	. <u>N/A</u>	
Expiration Date <u>N/A</u>							
4. Identification of System: Shut Down Cooling line 1PRCEL051 and RC drain line 1PRCEL070							
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1975 Addenda, Code Case							
(b) Applicable	Edition of Section 3	(I Utilized for Repa	irs or Replacer	ments: 1992 Ed	ition, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components			•
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Shut Down Cooling	Puliman Power	N5254 (S002)	N/A	1PRCEL051	1977	Repaired	YES
Shut Down Cooling	Pullman Power	N5250 (S003)	N/A	1PRCEL051	1979	Repaired	YES
RC Loop #2 Drain Line	N/A	N/A	N/A	1PRCEL070	1981	Repaired	No
				:			
	Work: Blend vibra VO 2560318 instru		r/gouges on l	ines 1PRCEL0:	51 and 1PR	CEL070 upstre	am of
8. Test Conducted	: Hydrostatic	Pneumatic	Nominal O	perating Pressure	☐ Ex	empt 🛛 N-	1 16-1 🔲
Oti	her Press	aure psi		Tes	st Temperati	ıre °F	
	•			•			
inches, (2) inf	emental sheets in cormation in items r of sheets is recor	1 thru 6 on this re	port is includ				

Q. Remarks: work order 2560340

C	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	the report are correct	and this replacement conform	ns to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A_	Expiration Date:	<u>N/A</u>
Signed: Reman Consultion Owner or Owner's	O Metallwood Designee, Title	ital Economer Date: 10	-25-02

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of Ari inspected the components described in this to 10-25-02, and state that	ission issued by the National Board of boiler and Pressure Vessel zona and employed by HSB CT of Hartford, Connecticut, have so Owner's report during the period of 10-15-02 to the best of my knowledge and belief, the Owner has performed ures described in this Owner's Report in accordance with the XI.
concerning the examinations and corrective	pector nor his employer makes any warranty, expressed or implied, e measures described in this Owner's report. Furthermore, neither ble in any manner for any personal injury or property damage or a with this inspection.
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 9-25-07	

۱		ASME SECTI	ON XI - REPAIR/I	REPLACEMENT	• • • • • • • • • • • • • • • • • • • •
1.	Component ID 1M	ŒWBE01 .	2. Code Cl	ass ASME Section III	Class 3
		SSENTIAL COOLING V			
4.	. N-5 Package Numb	per 1EW02-1	5. W.O. Nu	mber <u>2560355</u>	
6.	. Original Construction	on Code Edition 1974 E	dition, Winter 1975 Adde	enda.	and the state of t
7.	. Original Installation	Code Edition 1974 Edit	ion, Winter 1975 Addend	a	<u></u>
8.		WELD BUILD-UP MATI		ECTS IDENTIFIED IN	THE TUBE (Spray
	<u>. 1</u>	Pond) SIDE OF THE HEA	AT EXCHANGER.		
	_				
9.	. 🔲 ISI Flaw	NDE N	fethod of Flaw Detection	· · · · · · · · · · · · · · · · · · ·	
			•		
10		cuitability of this work as p REQUIRED AFTER INS	•		R TO PERIODIC
		RE WAS NO FAILURE			
			** · · · · · · · · · · · · · · · · · ·		
44	Banair/Banisaama	ent Work Organization A	PC		
	•			1 2/74 Edition 75 Wint	er Addendo
	•	Construction or reconcile	<u> </u>		
	•	nt Activity Construction Code/Edition 1992 Edition		7/4 Edition 73 Winter P	Addelida
				[7] NO	
15	i. Preservice Inspec	tion Required. <u>حص</u> ع اf required, include	Y 🛄 Y		tion
-	Initial Date	Zes Z. II required, include	e a step in the w.o. to pe	Homi Freservice inspec	uon.
-16	4 .	Pressure Test Required	☑ Y	- -	
_	Initial Date	zoz If required, include	·	•	
_	Initial Date	zzoz_ 17. Include a step			•
_	PA & lost	18. Include a step		low all applicable numbe	ers for repaired or
	ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
	1MEWBE01	N/A	N/A	, N/A	N/A
					<u> </u>
			·		
19	. Planner Kali	X-8		lame KARL V. SAVAC	
0ء.). ISI Engineer	Signature O	Date 10/16/62 Print N	Alan Morris	PU NDAP
-20	. IOI LIIGINGEI	Signature	Date	101100	
21	. ANII	// Signature	Print N	lame ROBERT G. HOC	STROM
		.			

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 10/15/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet of ______ 2. Plant Palo Verde Nuclear Generating Station Unit 1 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2560355 Work Order Number 3. Work Performed by Arizona Public Service Company Type Code Symbol Stamp None Authorization No. N/A N/A 5801 S.Wintersburg Rd., Tonopah Arizona, 85354-7529 Expiration Date EW, ASME Section III, Class 3 4. Identification of System 5. (a) Applicable Construction Code Section III, Class 3 1974 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 Repaired ASME Code Other Year Manufacturer National Name of Name of Stamped Board No. Identification Built Replacement Serial No. Manufacturer ltem (Yes or No) 1MEWBE01 Repaired Yes 17606329132 14441 Struther Wells Corp. 1B EW Ht. Exch. 7. Description of Work Weld Build-up, Material Repair. Exempt N-416-1 Pneumatic Nominal Operating Pressure 8. Test Conducted: Hydrostatic Test Temp. Other 🔲 Pressure psi 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)
Remarks	Pressure Test per N-416-1, Performed Weld Repair/Build-up of Eroded areas designated by Engineering in the Tube (Spray Pond) Side of the Heat Exchanger.
	CERTIFICATE OF COMPLIANCE
	fy that the statements made in the report are correct and this repair conforms to the rules GME Code, Section XI.
Type Co	de Symbol Stamp
Signed_	te of Authorization No
	CERTIFICATE OF INSERVICE INSPECTION
Inspector	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u>
the perio	rtford, Connecticut , have inspected the components described in this Owner's Report during d 6-46-62 to 6-21-62 , and state that to the best of my knowledge and e Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
concerning neither the	ng this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ing the examinations and corrective measures described in this Owner's Report. Furthermore, ine Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
	Commissions NB 9685 "N" "I" AZ264 Inspector's Signature National Board, State, Province, and Endorsements
Date_	10-21-02

	ASME SECTION	XI - REPAIR / REPLA	CEMENT		
			Pa	geof	
1. Component ID 1JCHEPS	V0345	2. Code Class ASM	IE Section III Class	2	,
3. Item Description: Pressur	e Safety Valve Nozzle and	Disc Insert		•	
4. N-5 Data Package Number	T: 1CH13-1	5. W.O. Number: <u>25</u>	61273		
6. Original Construction Co					
7. Original Installation Code					
•	ork valve as required to ad	dress set point verification fai			
9. ISI Flaw		NDE Method of Flaw Dete	ction:		
		Report Number:			
10. Evaluation of the suitabil	lity of this work as per the	requirements of IWA-4150:	than to	macard)
· continue to	tores as as	Pere No failure	evinupliced.	(Remday	~~
L Profession	sala edice is c	ert to one estate li	she couldant	- 16-28- - 18-28-	- <i>U</i>
- replace 1010	3 are across ins	ar iv jeesige ki	المحصر	and	_
			K! H	16-28-	-02
11. Repair/Replacement Wor	rk Organization: Arizona	Public Service			
•		e/Edition: <u>Sec. III Cl 2, 1974</u>			
13. Repair/Replacement Act	· ·	lition: Sec. III Cl 1, 1974 Ed	ition 1975 Winter A	ddenda	
14. ASME Section XI Code/	Edition: 1992 Edition a	nd 1992 Addenda			
15. Preservice Inspection Re-	quired:	☐ YES ☒ NO			
Initial Aug_ Date _	0/25/02 If requires	d, include a step in the W.O. to	perform Preservice	Inspection	
16. ASME Section XI Pressu	<i>3</i>	☐ YES ☑ NO		-	
Initial Ac. Data	If required	d, include a step in the W.O. fo	or ISI & ANII Inspec	ction.	
Initial Alex Date 10	17 Inchis	de a step in the W.O. to compl	_		
Initial Aug Date	componer		ete 1415-2 Porm prio	w releasing me	
	10 Teacher	de a step in the W.O. to record	helow all applicable	numbers for ren	aired or
Initial Alum Date 10	2/25/02 replaceme		bolow an apphoant	c numbers for rep	ance or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/W	O No.
PSV Nozzle	APN 45070039	92031-40-0015		MR 694856	
PSV Disc Insert	APN 45630021	92032-34-0010		MR 694856	
		·			
19. Planner Dws. Signature 20. ISI	seffer 10	25/02 Printed Name: Date			
20. ISI dean	morrow 10	/21/02 Printed Name: _	Alan mo	nou	
Signature	1	Date			
1. ANII It fotos	n _1	Printed Name:	Rice House and		
Signature		Date Finited Name.	- magnitude	· · · · · · · · · · · · · · · · · · ·	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

					-	-	
1. Owner: Arizo	zona Public Service	: Company, et. al.		Date	e: <u>10/31/2</u> 0	002	
<u>P. O.</u>	Box 53999, Phoen	nix Arizona 85077	<u>2-2034</u>	Shee	et: <u>1</u> of	. <u>2</u>	_
2. Plant: Palo	Verde Nuclear Gen	nerating Station		Unit	t <u>1</u>		
<u>5801</u>	South Wintersburg	g Road., Tonopah	. Arizona 853	154-7529 Wor	rk Order Nu	ımber <u>2561273</u>	
3. Work Perform	ned by: <u>Arizona Publi</u>	ic Service		Тур	e of Code St	Stamp None	•
				Auth	horization N	ło. <u>N/A</u>	
				Expi	iration Date	. <u>N/A</u>	
4. Identification c	of System: (CH) CH	HEMICAL AND V	OLUME CON	TROL			
5. (a) Applicable	e Construction Code	ASME Section III	NC, Class 2	1974 Edition, Sur	<u>nmer 1976</u>	Addenda,	Code Case
(b) Applicable	e Edition of Section 3	XI Utilized for Rep	airs or Replace	ments: <u>1992 Ed</u>	ition, 1992	2 Addenda	
6. Identification o	of Components Repai	ired or Replaced ar	id Replacement	t Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Nozzle	Crosby	N92031-40-0015	N/A	UTC #355525	1978	Replacement	NO
Disc Insert	Crosby	N92032-34-0010	N/A	UTC #355525	1978	Replacement	NO
Valve	Crosby	N61180-00-0008	N/A	UTC #355525	1978	Repaired	YES
·							
							<u></u>
/. Description of Wausing set point	Work: <u>Disasembled</u> verification failure.	d removed valve f : Inspection deter	for inspection mined the rep	and troubishoo	ing to con Nozzel ar	rect identified de ad Disc Insert w	eficiencies as required.
3. Test Conducted:		Pneumatic		perating Pressure		_	116-1 🔲
Othe	er Pressur	ure psi		Test	Temperatur	•	-
-				,			
inches, (2) infor	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.						[1] bered

FORM NIS-2 (Back	FO	RM	NIS-2	(Back)
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. Remarks: Work Order #2561273:

A spare Crosby Pressure Safety Valve (PSV) was repaired under this work order. A unique record in the Site Work

Management System (SWMS) for this valve is known as a "Physical Item" and is identified by a Unit Tracking Code (UTC).

This UTC number is entered as the "Other Identification" on the front of this form.

Ce	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	ne report are correct	t and this repair conforms to the	ne rules of the
Type Code Symbol Stamp	N/A_		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: Noner or Owner's D		ngineer Date: 10	0/31/02

CERTIFICATE OF INS	SERVICE INSPECTION
inspected the components described in this Owner's reto	by the National Board of boiler and Pressure Vessel apployed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have eport during the period of <u>10-28-02</u> of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any maloss of any kind arising from or connected with this inspector.	escribed in this Owner's report. Furthermore, neither
Let Li future Respectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 10-31-02	

P. .. 0092 Ver. 7 Back

	ASME SECTION	XI - REPAIR / REPL	ACEMENT	
	· ·		Pa	ge <u> </u>
 Component ID <u>IJSGEHV</u> Item Description: <u>ANCHO</u> N-5 Data Package Number: Original Construction Code Original Installation Code Work Description: <u>Replay</u> ISI Flaw Evaluation of the suitability <u>No failure in the ASME Section</u> 	DR/DARLING 6"-900# PI 1SG02-4 Edition: 1974 Edition, Security of this work as per the	5. W.O. Number: 2 Summer 1975 Addenda Winter 1975 Addenda t leak from packing NDE Method of Flaw Det Report Number:	2562551 tection:	2
11. Repair/Replacement Worl 12. Replacement Items Const. 13. Repair/Replacement Activ. 14. ASME Section XI Code/F. 15. Preservice Inspection Req. Initial Day Date 10. 16. ASME Section XI Pressur. Initial Day Date 10.	ruction or reconciled Code/Edition: 1992 Edition a uired: -24-02 If required: -26-02 If required: -26-03 If required: -26-03 If required:	e/Edition: Sec. III Cl 2. 1974 Edition: Sec.	to perform Preservice for ISI & ANII Inspec	Inspection ction. or to releasing the
Item ID		Serial No.	Heat No.	MR/PO/WO No.
	Part No.	8696-)	KITI	MR 692949
Bonnet				
	· · · · · · · · · · · · · · · · · · ·			
19. Planner Dawling Signature 20. ISI Signature 21. ANII Signature Signature	10,	Date Date Printed Name: Printed Name: Date Printed Name: Date		BROWNING

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizon	na Public Service (Company, et. al.			Date:	10-26-200	<u>)2</u>	
<u>P. O. E</u>	Box 53999, Phoeni	x Arizona 85072-	2034		Sheet:	1 of ;	2	
2. Plant: Palo V	erde Nuclear Gene	erating Station			Unit: 1	L		
<u>5801 S</u>	outh Wintersburg	Road., Tonopah.	Arizona 8535	<u>54-7529</u>	Work (Order Nur	nber <u>2562551</u>	
3. Work Performe	d by: Arizona Public	: Service			Турс о	f Code Sta	mp None	
	Authorization No. N/A							
Expiration Date <u>N/A</u>								
4. Identification of System: SG: Main Steam								
5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1975 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 Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identific	-	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Bonnet	Anchor/Darling	8696-1	n/a	1JSGEHV	7-44	2002	Replacement	NO
			-					
		,						
7. Description of	Work: Replace box	nnet to correct lea	kage from pa	cking.				
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pro	essure [⊠ Exe	empt N-	116-1 🔲
Otl	her Press	ure psi			Test 7	Temperatu	re °F	
inches, (2) infe	emental sheets in formation in items larger of sheets is record	thru 6 on this re	port is include	ings may t ed on each	e used sheet,	provided and (3) ea	(1) size is 8 ½ ach sheet is nun	X 11 nbered

FORM NIS-2 (Ba	ack)
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g). 1	Remarks	: WO# 2562551	for valve 1JSGEHV0044	. The valve bonnet was replaced due to leakage from packing.

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.						
Type Code Symbol Stamp	N/A					
Certificate of Authorization No Signed: Production No Owner or Owner's						

CERTIFICATE OF INSERVICE INSPECTION

inspected the components described in this Owner's re	port during the period of					
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" "T" A Z264 National Board, State, Province, and Endorsements						
Date: 10-29-02						