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10 CFR 50.55a

102-05136-SAB/TNW/RJR
August 6, 2004

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 – Eleventh 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 submits the PVNGS Unit 1 Inservice Inspection Report for the eleventh refueling outage, provided in Enclosure 1. APS completed Unit 1's Refueling Outage on May 10, 2004.

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,

Scott A Bauer

CDM/SAB/RJR/

Enclosure

cc: B. S. Mallett
M. B. Fields
N. L. Salgado

A047

ENCLOSURE

SECOND 10-YEAR ISI INTERVAL SUMMARY REPORT

ELEVENTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION, UNIT 1

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

INSERVICE INSPECTION REPORT

ELEVENTH REFUELING OUTAGE

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

PREPARED BY: _____ DATE: 7/22/04

REVIEWED BY: _____ DATE: 7-22-04

APPROVED BY: _____ DATE: 7/23/04

COMMERCIAL SERVICE DATE: 01/28/86
REPORT DATE: 07/14/2004

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APPENDICES

UNIT 1 INSERVICE INSPECTION REPORT

1.0 Introduction

This report is a summary of the examinations performed during the eleventh 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 second refueling for Interval 2, Period 2 which was conducted from April 4, 2004 through May 10, 2004. 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 summarize 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 and 2 examinations performed through the eleventh refueling outage. All of the examination report numbers listed in Appendix A for the eleventh refueling and examinations performed since the last Summary Report are in bold type.

2.0 Examination Summary

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

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
	MT	Magnetic Particle
VOL - Volumetric	UT	Ultrasonic
	RT	Radiographic
	ECT	Eddy Current

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

No repairs or replacement were performed as a result of ISI examinations performed during U1R11. 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.

APPENDIX A

INSERVICE INSPECTION

SUMMARY REPORT

APPENDIX A

Definition of Terms

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

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

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

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
ASME Class 2 Augmented High Energy Piping										
AHE 5.51 & 5.52	47	MS SG1	One	13	13	47-1	99-1361	99-1280		
						47-2	99-1360	99-1280		
						47-4	99-1305	99-1281		
						47-8	99-1306	99-1281		
						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		
	48	MS SG1 East	Two	12	12	48-01	UT-04-006	MT-04-009		
						48-02	UT-04-007	MT-04-010		
						48-04	UT-04-009	MT-04-012		
						48-08	UT-04-011	MT-04-014		
						48-12	UT-04-013	MT-04-016		
						48-14A	UT-04-014	MT-04-017		
						48-16	UT-04-016	MT-04-019		
						48-20	UT-04-018	MT-04-021		
						48-24	UT-04-020	MT-04-023		No credit
						48-25	UT-04-021	MT-04-024		
						48-28	UT-04-023	MT-04-026		
						48-29	UT-04-024	MT-04-027		
						48-30	UT-04-025	MT-04-028		
	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		
			Two	14	14	51-26	UT-04-028	MT-04-031		
						51-27	UT-04-029	MT-04-032		
						51-28	UT-04-030	MT-04-033		
						51-29	UT-04-031	MT-04-034		
						51-30	UT-04-032	MT-04-035		
						51-31	UT-04-033	MT-04-036		
						51-32	UT-04-034	MT-04-037		
						51-33	UT-04-035	MT-04-038		
						51-34	UT-04-036	MT-04-039		
						51-37	UT-04-037	MT-04-040		
						51-49	UT-04-038	MT-04-041		
						51-86	UT-04-039	MT-04-042		
						51-87	UT-04-040	MT-04-043		
						51-88	UT-04-041	MT-04-044		
	53	Steam to Aux FW	One	10	10	53-11	99-1538	99-1506		
						53-12	99-1539	99-1506		
						53-13	99-1540	99-1506		PSE
						53-14	99-1541	99-1506		
						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		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
						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		
						56-9	01-1415	01-1328		
						56-11	01-1416	01-1328		
	60	Downcomer SG1	One	9	9	60-7	99-1708	99-1646		
						60-8	01-1221	01-1230		
						60-9	01-1222	01-1230		
						60-11	01-1223	01-1230		
						60-12	01-1224	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		
			Two	5	5	60-02	UT-04-067	MT-04-066		
						60-03	UT-04-068	MT-04-067		
						60-04	UT-04-069	MT-04-068		
						60-05	UT-04-070	MT-04-069		
						60-06	UT-04-071	MT-04-070		
	61	Downcomer SG1	Two	5	5	61-02	UT-04-072	MT-04-071		
						61-03	UT-04-073	MT-04-072		
						61-04	UT-04-074	MT-04-073		
						61-05	UT-04-075	MT-04-074		
						61-06	UT-04-076	MT-04-075		
	66	Blowdown SG1	One	9	9	66-1	99-1469	99-1416		
						66-2	99-1470	99-1416		
						66-3	99-1471	99-1416		
						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		
			Two	6	6	66-10	UT-04-080	MT-04-080		
						66-11	UT-04-081	MT-04-081		
						66-12	UT-04-082	MT-04-082		
						66-13	UT-04-083	MT-04-083		
						66-14	UT-04-084	MT-04-084		
						66-15	UT-04-085	MT-04-085		
AHE 5.61 & 5.62	51	ADV1 Bypass UV180	Two	21	21	51-101	UT-04-042	MT-04-045		
						51-102	UT-04-043	MT-04-046		
						51-103	UT-04-044	MT-04-047		
						51-104	UT-04-045	MT-04-048		
						51-105	UT-04-046	MT-04-049		
						51-106	UT-04-047	MT-04-050		
						51-107	UT-04-048	MT-04-051		
						51-108	UT-04-049	MT-04-052		
						51-109	UT-04-050	MT-04-053		
						51-110	UT-04-051	MT-04-054		
						51-111	UT-04-052	MT-04-055		
						51-112	UT-04-053	MT-04-056		
						51-113	UT-04-054	MT-04-057		
						51-114	UT-04-055	MT-04-058		
						51-115	UT-04-056	MT-04-059		
						51-116	UT-04-057	MT-04-060		
						51-117	UT-04-058	MT-04-061		
						51-118	UT-04-059	MT-04-062		
						51-119	UT-04-060	MT-04-063		
						51-120	UT-04-061	MT-04-064		
						51-121	UT-04-062	MT-04-065		
AHE 5.81 & 5.82	47	MS SG1 West	One	7	6	47-3	99-1359	99-1280		
						47-7	99-1358	99-1280		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
						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		99-1280		
			Two	0	1	47-27	UT-04-005	MT-04-008		
	48	MS SG1 East	Two	8(1)	8(1)	48-03	UT-04-008	MT-04-011		
						48-07	UT-04-010	MT-04-013		
						48-11	UT-04-012	MT-04-015		
						48-15	UT-04-015	MT-04-018		
						48-19	UT-04-017	MT-04-020		
						48-23	UT-04-019	MT-04-022		
						48-27	UT-04-022	MT-04-025		
						48-34	UT-04-026	MT-04-029		
						48-35	UT-04-027	MT-04-030		Aug, Limited UT exam
ASME Class 1										
B 1.22	02	Closure Head	One	33%	33%	2-4	99-1466	99-1458		Accessible Areas
							99-1479			RR#14
							99-1481			
							99-1483			
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 Wesdyne. Exam
							99-1480			completed in 1R8
							99-1482			
B 1.40	02	Closure Head	Two	33%	33%	2-1	UT-04-107	MT-04-001		Examined 120-240°
B 2.11 & 2.12	5	Pressurizer	One	66%	66%	5-2	99-1448			Examined 0°-240°
							99-1450			
							99-1452			
							99-1454			
						5-3	99-1449			1' long seam for 5-2
							99-1451			
							99-1453			
							99-1455			
			Two	66%	66%	5-6	UT-02-243			1' long seam for 5-8
							UT-02-244			
							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°-240°
							UT-02-140			
							UT-02-147			
							UT-02-149			
B 2.32	03	Steam Generator 1	One	33%	33%	3-3	01-1199			
							01-1212			
							01-1213			
							01-1233			
						3-10	01-1203			
							01-1208			
							01-1218			
							01-1237			
						3-11	01-1200			
							01-1201			
							01-1210			
							01-1211			
							01-1214			
							01-1215			
							01-1234			
							01-1235			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Reports Visual	Remarks
						3-12	01-1201			
							01-1210			
							01-1215			
							01-1235			
B 2.40	03	Steam Generator 1	One	50%	50%	3-6	01-1201			Examined 0°-180°
							01-1210			
							01-1215			
							01-1235			
	04	Steam Generator 2	Two	50%	50%	4-6	UT-02-260			Examined 180°-360°
							UT-02-280			
							UT-02-281			
							UT-02-282			
B 3.90	01	Reactor Vessel	One	2	2	1-15	*			*Separate Report
						1-18	*			by Wesdyne. Exam
B 3.100	01	Reactor Vessel	One	2	2	1-15	*			completed in 1R8
						1-18	*			
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	01-1285			
							01-1406			
						5-11	01-1365			
							01-1366			
			Two	2	2	5-10	UT-02-266			
						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			
							01-1379			
			Two	1	1	4-7	UT-02-138			
							UT-02-142			
							UT-02-144			
							UT-02-148			
B 3.140	03	Steam Generator 1	One	1	1	3-9	01-1367			
							01-1368			
			Two	1	1	3-7	UT-02-132			
	04	Steam Generator 2	One	1	1	4-9	01-1369			
							01-1370			
			Two	1	1	4-7	UT-02-135			
B 4.11	01	Reactor Vessel	Two	0	0	RPV Vent		ECT-*	04-235	*Rpt #WDI-PJK-1302615-FSR-001,
									04-236	All (EA-03-009)
B 4.12	02	Closure Head	One	8	8	CEDM Noz			01-1627	
			Two	8	8	CEDM Noz	UT-*	ECT-*	VT-02-700	
									04-235	All (EA-03-009)
									04-236	
B 4.13	01	Reactor Vessel	One	5	5	Inst. Noz.			01-1627	
			Two	5	5	Inst. Noz			VT-02-705	Reject – eval by CRDR 2312850
									VT-04-431	All (EA-03-009)
B 4.20	05	Pressurizer	One	12	12	Heater			01-1627	CEIB 89-06

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Reports Visual	Remarks
			Two	12	12	Heater			VT-02-699	CEIB 89-06
									VT-04-433	
B 5.40	20	PZR Surge	One	1	1	5-34	01-1288	01-1232		
							01-1290			
	31	PZR Safeties	One	1	1	5-29	01-1238	01-1010		
							01-1239			
							01-1240			
							01-1278			
	20	PZR Surge	Two	0	0	5-34			VT-04-386	Aug. VT
	29	PZR Spray	Two	1	1	5-33	RT-02-003	PT-02-147	VT-04-387	Aug. VT
	31	PZR Safeties	Two	1	1	5-31	UT-02-257	PT-02-155	VT-04-390	Aug. VT
						5-29			VT-04-388	Aug. VT
						5-30			VT-04-389	Aug. VT
						5-32			VT-04-391	Aug. VT
B 6.10	02	Closure Head	One	18	18	1 thru 18		99-1510	99-1589	
			Two	18	18	19 thru 36		MT-02-167	VT-02-592	
B 6.30	02	Closure Head	One	18	18	1 thru 18	99-1511	99-1509		
			Two	18	18	19 thru 36	UT-02-211	MT-02-166		
			Two	0	0	45	92-725	92-724		PSE in Warehouse
B 6.50	02	Closure Head	One	18	18	1 thru 18			99-1613	
			Two	18	18	19 thru 36			VT-02-593	
B 6.180	16	RCP 1A	One	5	5	1 thru 5	99-1705		99-1601	
									01-1654	
			Two	5	5	6 thru 10			VT-02-626	
							UT-04-116		VT-04-430	IEIN 80-27 All
	17	RCP 1B	One	5	5	1 thru 5	99-1706		99-1603	
									01-1654	
			Two	5	5	6 thru 10			VT-02-630	
							UT-04-117		VT-04-429	IEIN 80-27 All
	18	RCP 2A	One	5	5	1 thru 5	99-1487		99-1500	
							99-1464			PSE
									01-1654	
			Two	5	5	6 thru 10			VT-02-634	
							UT-04-118		VT-04-427	IEIN 80-27 All
	19	RCP 2B	One	5	5	1 thru 5	99-1707		99-1602	
									01-1654	
			Two	5	5	6 thru 10			VT-02-638	
							UT-04-119		VT-04-428	IEIN 80-27 All
B 6.190	18	RCP 2A	One	When Disassembled		Flange			99-1488	
B 6.200	16	RCP 1A	One	5	5	1 thru 5			99-1601	
			Two	5	5	6 thru 10			VT-02-625	
	17	RCP 1B	One	5	5	1 thru 5			99-1603	
			Two	5	5	6 thru 10			VT-02-629	
	18	RCP 2A	One	5	5	1 thru 5			99-1197	Rejected 6 nuts,
									99-1500	PSE 6 nuts/clamp ring
			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	IEB 82-02
									01-1272	Removed
			Two	20	20	20 studs/nuts		MT-02-172	VT-02-596	IEB 82-02
									VT-04-394	
B 7.30	03	Steam Generator1	One	40	40	40 studs/nuts			99-1492	IEB 82-02
									01-1271	Removed
			Two	40	40	40 studs/nuts		MT-02-173	VT-02-594	IEB 82-02
									VT-04-405	
	04	Steam Generator2	One	40	40	40 studs/nuts			99-1493	IEB 82-02
									01-1294	Removed
			Two	40	40	40 studs/nuts		MT-02-174	VT-02-595	IEB 82-02
									VT-04-406	
B 7.50	31	PZR Safeties	One	1	1	PSV200			99-1499	IEB 82-02
									01-1431	Removed
						PSV201			99-1499	IEB 82-02
									01-1431	Removed
						PSV202			99-1499	IEB 82-02
									01-1431	Removed
						PSV203			99-1499	IEB 82-02
									01-1431	Removed

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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
			Two	1	1	PSV200		MT-02-168	VT-02-597	IEB 82-02
									VT-04-395	Removed
						PSV201		MT-02-169	VT-02-598	IEB 82-02
									VT-04-396	Removed
						PSV202		MT-02-170	VT-02-599	IEB 82-02
									VT-04-397	Removed
						PSV203		MT-02-171	VT-02-600	IEB 82-02
									VT04-398	Removed
	37	Charging	One	1	1	V435			99-1263	
B 7.60	16	RCP 1A	One	5	5	1 thru 5			99-1490	
						1 thru 16			01-1476	Disassembled
			Two	5	5	6 thru 10			VT-02-627	
									VT-02-628	
	17	RCP 1B	One	5	5	1 thru 5			99-1491	
			Two	5	5	6 thru 10			VT-02-631	
									VT-02-632	
	18	RCP 2A	One	5	5	1 thru 5			99-1489	
						1 thru 16			01-1475	Disassembled / 2 rejects
						2			01-1501	PSE
			Two	5	5	6 thru 10			VT-02-635	
									VT-02-636	
	19	RCP 2B	One	5	5	1 thru 5			99-1602	
			Two	5	5	6 thru 10			VT-02-639	
									VT-02-641	
B 7.70	21	SD Cooling 1	One	1	1	UV653			99-1224	
	22	SD Cooling 2	One	1	1	UV654			01-1533	
			Two	1	1	UV652			VT-02-514	
	23	SI 1A	One	1	1	V237			01-1004	
			Two	2	2	V235			VT-02-516	
						UV634			VT-02-517	
	24	SI 1B	One	1	1	V543			99-1228	
			Two	2	2	V245			VT-02-478	
						UV644			VT-02-506	
	25	SI 2A	One	1	1	V540			99-1219	
			Two	1	1	V217			VT-02-515	
	26	SI 2B	One	1	1	V225			99-1614	
			Two	2	2	V541			VT-02-553	PSE
						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
									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	
			Two	1	1	PSV202			VT-02-601	
	32	Drain Line 1A	One	2	2	V234			99-1588	
						V334			99-1587	
	33	Drain Line 1B	Two	2	2	V235			VT-04-313	
						V335			VT-04-314	
	34	Drain Line 2A	Two	2	2	V233			VT-02-539	
						V333			VT-02-540	
	37	Charging	One	1	1	PDV240			99-1263	
	38	Drain Line Loop 1	One	1	1	V215			01-1042	
	39	HPSI Long Term 1	One	1	1	V523			01-1040	
			Two	2	2	V522			VT-02-421	
						V957			VT-02-578	
	40	HPSI Long Term 2	Two	1	1	V532			VT-02-579	
B 7.80	02	RVLMS	One	1	1	2-21			01-1600	CEDM 92 & 96
B 8.20	5	Pressurizer	One	66%	66%	5-1	99-1445	01-1006		Examined 0°-240°
							99-1446			
							99-1447			
							99-1486			
B 8.30	03	Steam Generator 1	One	33%	33%	3-1	01-1304	01-1292		Examined 0°-120°
							01-1330			
							01-1331			
							01-1332			

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
	4	Steam Generator2	Two	33%	33%	4-1	UT-02-130 UT-02-136 UT-02-137 UT-02-141	MT-02-165		Examined 120°-240°, MT on OD only.
B 9.11 & 9.12	06	RCS Piping	One	7	7	1-31	*	01-1599		*Separate report by Wesdyne. Exams completed in U1R8
						1-34	*	01-1599		
						6-7	*	01-1599		
						3-30	01-1356 01-1359	01-1299		
						4-30	01-1357 01-1360	01-1291		
						7-7	*	01-1599		
						17-2	01-1361 01-1362	01-1291		
			Two	0	0	16-1		MT-02-179		
						17-1		MT-02-181		
						18-1		MT-02-178		
						19-1		MT-02-180		
	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		
						21-18	01-1381	01-1275		
						21-20	01-1382	01-1275		
			Two	2	2	21-14	UT-02-190	PT-02-119		
						21-15	UT-02-191	PT-02-120		
						21-1		PT-04-063		Aug.
						21-3		PT-04-050		Aug.
						21-4	UT-04-127	PT-04-053		Aug.
						21-5	UT-04-128	PT-04-054		Aug.
						21-6		PT-04-048		Aug.
						6-11		PT-04-059		Aug.
						21-7	UT-04-129	PT-04-057		Aug.
						21-8	UT-04-130	PT-04-058		Aug.
						21-9	UT-04-131	PT-04-049		Aug.
						21-10	UT-04-132	PT-04-051		Aug.
						21-11		PT-04-055		Aug.
						21-11A		PT-04-060		Aug.
						21-12	UT-04-126	PT-04-052		Aug. Limited UT exam
						21-12A		PT-04-042		Aug.
						21-13		PT-04-043		Aug.
						21-13A		PT-04-066		Aug.
						21-14	UT-04-120	PT-04-056		Aug.
						21-15	UT-04-122	PT-04-064		Aug.
						21-16	UT-04-121	PT-04-062		Aug.
						21-17	UT-04-123	PT-04-067		Aug.
						21-18	UT-04-124	PT-04-045		Aug.
						21-19	UT-04-125	PT-04-046		Aug.
						21-20		PT-04-047		Aug.
	22	SD Cooling 2	One	1	1	22-11	99-1600	99-1590		
						22-14	99-1599	99-1590		
						22-23	01-1510 01-1511	01-1327		Needs PDI re-exam
			Two	0	0	22-1		PT-02-103		
						7-9		PT-02-105		
						22-18		PT-02-112		
	23	SI 1A	One	3	3	9-10	01-1541 01-1542	01-1007		
						23-1	01-1543	01-1007		
						23-2	01-1544	01-1007		
						23-4	01-1545 01-1546	01-1007		Needs PDI re-exam
			Two	1	1	23-6	UT-02-287 UT-02-289	PT-02-172		Aug. Limited UT exam
						23-4	UT-04-001			**PDI re-exam, Limited UT exam**
	24	SI 1B	Two	3	3	24-6	UT-02-179 UT-02-182	PT-02-116		Limited Aug. UT exam
						24-14	UT-02-185 UT-02-189	PT-02-098		Limited UT exam
						24-16	UT-02-177 UT-02-188	PT-02-101		Limited UT exam

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
						24-19	UT-02-176	PT-02-099		Limited UT exam
							UT-02-178			
	25	SI 2A	One	2	2	25-26	99-1512	99-1503		
						25-27	99-1617	99-1606		
						25-29	99-1618			
			Two	4	4	25-1	UT-02-227	PT-02-145		
						25-4	UT-02-224	PT-02-146		Limited UT exam
							UT-02-226			
						25-6	UT-02-221	PT-02-173		Limited UT exam
							UT-02-222			
						13-10	UT-02-228	PT-02-174		
	26	SI 2B	One	2	2	26-9	99-1615	99-1586		
						26-11	99-1616	99-1586		
			Two	1	1	26-6	UT-02-181	PT-02-114		Limited Aug. UT exam
							UT-02-184			
						26-17	UT-02-180	PT-02-113		Limited UT exam
							UT-02-183			
	29	PZR Spray	One	2	2	29-10	99-1467	99-1436		
						29-11	99-1468	99-1436		
			Two	1	1	29-1	UT-02-233	PT-02-149		PSE, Need PDI re-exam
							UT-02-234			
							UT-04-002			Re-exam
						29-2	UT-02-235	PT-02-150		PSE, Limited UT exam, Need PDI re-exam
							UT-02-236			
							UT-04-003			Re-exam, Limited UT exam
						29-9	UT-02-237	PT-02-148		PSE, Need PDI re-exam
							UT-02-239			
							UT-04-004			Re-exam
	31	PZR Safeties	One	1	1	31-1	01-1220	01-1010		
			Two	2	2	31-9	UT-02-249	PT-02-156		
						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	27	PZR Spray 1A	One	4	4	9-11		01-1044		
& 9.22						27-42		01-1044		
						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		
			Two	4	4	28-9		PT-02-167		
						28-11		PT-02-168		
						11-11		PT-02-115		
						28-20		PT-02-169		
	30	Aux PZR Spray	One	2(2)	2(2)	30-7		99-1233		()Identifies augment
						30-13		99-1233		
						30-1	01-1621	01-1640		88-08
							01-1623			88-08
						30-2	01-1622	01-1640		88-08
							01-1624			88-08
			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,
							UT-02-230			Limited UT exam
						30-2	UT-02-231	PT-02-152		PSE, IEB 88-08,
							UT-02-232			Limited UT exam
	32	Drain 1A	One	3	3	8-18		99-1504		
						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		
						36-9		01-1186		
			Two	8	8	36-25		PT-02-138		
						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		

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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
						36-45		PT-02-087		
						36-80		PT-02-088		
	37	Charging	One	5	5	37-41		99-1301		
						37-42		99-1301		
						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		PT-02-125		
						37-33		PT-02-126		
						37-34		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		
						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
							UT-02-303			
	40	HPSI B	One	3	3	40-1		01-1043		
						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		
							01-1358			
			Two	0	0	13-8	UT-02-212	MT-02-176		Limited UT exam,
B 9.32	06	RCS Piping	One	1	1	8-17		99-1505		
			Two	1	1	13-9		MT-02-177		
	21	**SD Cooling 1**	**Two**	**0**	**0**	**21-1A**		**PT-04-065**		**Aug**
						21-13B		**PT-04-044**		**Aug**
	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		99-1504		
						32-8		99-1504		
	33	Drain Line 1B	Two	1	1	33-6		PT-02-108		
	34	Drain Line 2A	Two	1	1	34-6		PT-02-171		
	38	Drain 1	One	1	1	38-5		01-1041		Removed
						38-12		01-1500		PSE
B 10.10	36	Letdown	One	1	1	RC-91H5		99-1591		
						RC-91H6		99-1591		
			Two	1	1	RC-91H6		PT-02-089		91% CC N460
B 12.20	18	RCP 2A	One	When Disassembled		Bowl Interior			99-1497	
B12.50	**21**	**SD Cooling 1**	**Two**	**When Disassembled**		**V653**			**VT-04-286**	**Internal surfaces**
	24	SI 1B	Two	When Disassembled		V543			VT-02-523	Internal surfaces
	25	**SI 2A**	**Two**	**When Disassembled**		**V215**			**VT-04-297**	**Internal surfaces**
B 13.10	01	Reactor Vessel	One	33%	33%	Interior			01-1534	accessible areas
			Two	**33%**	**33%**	**Interior**			**VT-04-317**	**accessible areas**
B 14.10	02	Closure Head	One	2	2	2-9	01-1519	01-1655		CEDM 84
						2-9	01-1519	01-1655		CEDM 88
				2	2	2-10	01-1518	01-1655		CEDM 84
						2-10	01-1518	01-1655		CEDM 88
			Two	2	2	2-9	UT-02-206	PT-02-136		CEDM 83
						2-9	UT-02-207	PT-02-137		CEDM 91
				2	2	2-10	UT-02-203	PT-02-134		CEDM 83
						2-10	UT-02-204	PT-02-135		CEDM 91
B 15.10	**02**	**Closure Head**	**Two**	**ALL**	**ALL**	**Head**			**04-235** 04-236	**Aug BMI, NRC Order EA-03-009**

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ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 15.10, 20, 30, 40, 50, 60 & 70		RCS Piping	One	ALL	ALL	Press Bound			99-1585	RR#11 & 12
									99-1647	SIBPSV169 disassy
									99-1711	
									01-1012	
									01-1013	
									01-1557	
									01-1627	reject
									01-1628	
									01-1012	
									01-1013	
									01-1557	
									01-1627	
									01-1628	
									01-1629	
									01-1630	
									01-1646	
									01-1647	
			Two	ALL	ALL	Press Boundary			VT-02-698*	*100% RCS ea. Outage
									VT-04-414	
									VT-04-432	
									VT-04-436	
									VT-04-438	
									VT-04-447	
									VT-04-466*	
B Flywheel	16	RCP 1A	One	1	1	Flywheel	01-1273			
			Two	1	1	Flywheel	UT-02-201			
	17	RCP 1B	One	1	1	Flywheel	01-1363			
			Two	1	1	Flywheel	UT-02-202			
	18	RCP 2A	One	1	1	Flywheel	01-1364			
			Two	1	1	Flywheel	UT-02-208			
	19	RCP 2B	One	1	1	Flywheel	01-1434			
			Two	1	1	Flywheel	UT-02-205			
F 1.10	20	PZR Surge	One	2	2	RC-28-H1			99-1284	
						RC-28-H2			99-1218	
			Two	2	2	RC-28-H842			VT-04-001	RR#4
						RC-28-H844			VT-04-002	RR#4
	21	SD Cooling 1	One	7	7	SI-240-H10			99-1227	
						SI-240-H11			99-1226	
						SI-240-H13			99-1225	
						RC-51-H1			01-1182	Support Deleted
						RC-51-H2			01-1181	
						RC-51-H3			01-1180	
						RC-51-H821			01-1433	
			Two	7	7	RC-51-H2			VT-02-640	Expansion
									VT-04-324	
						RC-51-H3			VT-02-429	Expansion
									VT-04-325	
						RC-51-H4			VT-02-422	Support Deleted
						RC-51-H5			VT-02-423	
									VT-04-326	
						RC-51-H6			VT-02-703	Support Deleted
						RC-51-H822			VT-02-474	
						SI-240-H1			VT-02-430	Support Deleted
						SI-240-H2			VT-02-425	
									VT-04-323	
						SI-240-H3			VT-02-431	Reject
									VT-02-605	Re-exam
									VT-04-315	
						SI-240-H4			VT-02-433	Expansion
									VT-04-327	
						SI-240-H5			VT-02-432	Reject
									VT-02-607	Re-exam
									VT-04-316	
						SI-240-H6			VT-02-434	Support Deleted
						SI-240-H7			VT-02-435	Expansion
									VT-04-328	
						SI-240-H8			VT-04-329	
						SI-240-H9			VT-02-659	Expansion
									VT-04-330	

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ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
						SI-240-H10			VT-02-661	Expansion
									VT-04-331	
						SI-240-H11			VT-02-662	Expansion
									VT-04-332	
						SI-240-H12			VT-02-424	Support Deleted
						SI-240-H13			VT-04-333	
						SI-240-H823			VT-02-427	
						SI-240-H824			VT-02-428	
	22	SD Cooling B	One	4	4	RC-68-H5			01-1177	
						RC-68-H6			01-1176	Support Deleted
						SI-193-H17			01-1178	
						SI-193-H19			01-1179	Support Deleted
			Two	4	4	RC-68-H3			VT-02-663	Expansion
						SI-193-H8			VT-02-496	Rej
									VT-02-652	Re-exam
						SI-193-H9			VT-02-497	RR #4
						SI-193-H17			VT-02-664	Expansion
						SI-193-H20			VT-02-508	
						SI-193-H23			VT-02-665	Expansion
						SI-193-H25			VT-02-498	Support Deleted
	23	SI 1A	One	1	1	SI-207-H5			01-1005	Support Deleted
			Two	2	2	SI-207-H3			VT-02-666	Expansion
						SI-207-H7			VT-02-509	
						SI-207-H11			VT-02-510	
	24	SI 1B	One	2	2	SI-223-H3			99-1230	
						SI-223-H4			99-1229	Support Deleted
			Two	2	2	SI-223-H1			VT-02-475	
						SI-223-H2			VT-02-477	Support Deleted
	25	SI 2A	One	2	2	SI-156-H7			99-1221	Support Deleted
						SI-156-H9			99-1220	
			Two	1	1	SI-156-H9			VT-02-667	Expansion
						SI-160-H1			VT-02-511	
	26	SI 2B	One	2	2	SI-179-H9			99-1223	Support Deleted
						SI-179-H11			99-1222	
			Two	3	3	SI-175-H21			VT-02-507	Rej
									VT-02-655	Re-exam
						SI-175-H22			VT-02-512	Support Deleted
						SI-175-H23			VT-02-513	
						SI-179-H11			VT-02-669	Expansion
	27	PZR Spray 1A	One	9	9	RC-62-H26			99-1209	
						RC-62-H27			99-1208	
						RC-62-H28			99-1207	
						RC-62-H29			99-1206	Support Deleted
						RC-62-H30			99-1205	
						RC-62-H31			99-1204	Support Deleted
						RC-62-H32			99-1203	
						RC-62-H33			99-1202	
						RC-62-H34			99-1262	Support Deleted
			Two	8	8	RC-16-H5			VT-02-537	
						RC-16-H6			VT-02-608	
						RC-16-H7			VT-02-609	
						RC-16-H15			VT-02-536	Support Deleted
						RC-62-H35			VT-02-610	
						RC-62-H36			VT-02-611	Support Deleted
						RC-62-H37			VT-02-612	
						RC-62-H38			VT-02-613	
	28	PZR Spray 1B	One	9	9	RC-17-H24			99-1217	
						RC-17-H34			99-1216	
						RC-17-H35			01-1172	
						RC-17-H36			99-1215	
						RC-17-H38			99-1214	
						RC-17-H39			99-1213	Support Deleted
						RC-17-H40			99-1212	
						RC-17-H41			99-1211	Support Deleted
						RC-17-H42			99-1210	
			Two	8	8	RC-17-H43			VT-02-616	
						RC-17-H44			VT-02-617	Support Deleted
						RC-17-H45			VT-02-618	
						RC-17-H46			VT-02-619	
						RC-18-H9			VT-02-620	

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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
						RC-18-H10			VT-02-534	Support Deleted
						RC-18-H11			VT-02-621	Support Deleted
						RC-18-H12			VT-02-535	
	29	PZR Spray	One	2	2	RC-18-H16			99-1439	
						RC-18-H18			99-1440	
			Two	1	1	RC-18-H17			VT-04-003	RR#4
	32	Drain 1A	One	2	2	RC-60-HA			99-1326	Support Deleted
						RC-60-HB			99-1327	Support Deleted
	33	Drain Line 1B	Two	2	2	RC-58-HA			VT-02-493	
						RC-58-HB			VT-02-494	Support Deleted
	34	Drain Line 2A	Two	2	2	RC-96-HA			VT-02-532	
						RC-96-HB			VT-02-533	Support Deleted
	36	Letdown	One	9	9	RC-91-H1			99-1592	
						RC-91-H5			99-1593	
						RC-91-H6			99-1594	
						RC-91-HB			99-1325	Support Deleted
						RC-91-HD			99-1323	
						RC-91-HE			99-1319	Support Deleted
						RC-91-HY			99-1321	
						RC-91-HZ			99-1324	
						RC-91-HAA			99-1322	
						RC-91-HAK			99-1320	
			Two	10	10	RC-91-H6			VT-02-415	
						RC-91-HAJ			VT-02-416	
						RC-91-HP			VT-02-417	
						RC-91-H2			VT-04-004	RR#4
						RC-91-HAP			VT-04-005	RR#4
						RC-91-HAQ			VT-04-006	RR#4
						RC-91-HQ			VT-04-007	RR#4
						RC-91-HR			VT-04-008	RR#4
						RC-91-HS			VT-04-009	RR#4
						RC-91-HT			VT-04-010	RR#4
	37	Charging	One	14	14	CH-5-H2			99-1265	Support Deleted
						CH-5-H3			99-1266	
						CH-5-H25			99-1267	
						CH-5-H26			99-1268	Support Deleted
						CH-5-H27			99-1269	
						CH-5-H28			99-1270	
						CH-5-H30			99-1271	
						CH-5-H34			99-1272	
						CH-5-H35			99-1273	
						CH-5-H36			99-1274	
						CH-5-H42			99-1275	
						CH-5-H43			99-1276	Support Deleted
						CH-5-H44			99-1277	
						CH-5-HAA			99-1264	Support Deleted
			Two	9	9	CH-5-H13			VT-02-580	
						CH-5-H17			VT-02-581	
						CH-5-H18			VT-02-582	
						CH-5-H19			VT-02-583	
						CH-5-H20			VT-02-584	
						CH-5-H21			VT-02-585	
						CH-5-H22			VT-02-586	
						CH-5-H32			VT-02-587	
						CH-5-H37			VT-02-588	
	39	HPSI 1	One	4	4	SI-248-H26			99-1238	Support Deleted
						SI-248-H27			99-1237	
						SI-248-H28			99-1236	
						SI-248-H30			99-1235	Support Deleted
						SI-248-H25			99-1239	
			Two	5	5	SI-248-H17			VT-02-418	
									VT-04-334	
						SI-248-H18			VT-02-419	Support Deleted
						SI-248-H19			VT-02-572	
						SI-248-H20			VT-02-573	
						SI-248-H29			VT-02-420	
	40	HPSI 2	One	3	3	SI-199-H13			01-1016	
						SI-199-H14			01-1017	
						SI-199-H21			01-1015	Support Deleted
			Two	4	4	SI-199-H15			VT-02-574	

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Reports Visual	Remarks
						SI-199-H16			VT-02-575	
						SI-199-H17			VT-02-576	
						SI-199-H18			VT-02-577	
F 1.40	3	Steam Generator 1	One	1	1	3-40			01-1329	
	4	Steam Generator 2	Two	1	1	4-40			VT-02-623	
	5	Pressurizer	One	0	0	5-40			99-1712	
	16	RCP 1A	One	2	2	16-20			99-1259	
						16-21			99-1259	
			Two	4	4	16-12			VT-02-524	
						16-13			VT-02-525	
						16-14			VT-02-526	
						16-15			VT-02-527	
	17	RCP 1B	One	2	2	17-20			99-1260	
						17-21			99-1260	
			Two	4	4	17-12			VT-02-528	
						17-13			VT-02-529	
						17-14			VT-02-530	
						17-15			VT-02-531	
	18	RCP 2A	One	4	4	18-12			99-1663	
						18-13			99-1663	
						18-14			99-1663	
						18-15			99-1663	
			Two	2	2	18-20			VT-02-643	
						18-21			VT-02-645	
	19	RCP 2B	One	4	4	19-12			99-1664	
						19-13			99-1664	
						19-14			99-1664	
						19-15			99-1664	
			Two	2	2	19-20			VT-02-646	
						19-21			VT-02-647	
ASME Class 2										
C 1.10	41	Steam Generator 1	One	2	2	41-3	01-1384			Examined 0°-180°
							01-1387			
							01-1390			
							01-1408			
						41-4	01-1385			Examined 0°-180°
							01-1388			
							01-1391			
							01-1407			
	68	Regen HTEXCH	Two	3	3	68-3	UT-02-194			
						68-5	UT-02-196			
						68-7	UT-02-198			
	69	Letdown HTEXCH	One	1	1	69-1	99-1485			Examined 0°-180°
	84	SD Cooling A	Two	50%	50%	74-123	UT-04-111			Examined 0°-180°
C 1.20	41	Steam Generator 1	One	1	1	41-5	01-1386			Examined 0°-180°
							01-1389			
							01-1392			
							01-1393			
							01-1394			
							01-1395			
							01-1409			
							01-1410			
	68	Regen HTEXCH	Two	2	2	68-4	UT-02-195			
						68-6	UT-02-197			
C 1.30	41	Steam Generator 1	One	1	1	41-1	01-1206			Examined 0°-180°
							01-1207			
							01-1219			
							01-1241			
	42	Steam Generator 2	Two	1	1	42-1	UT-02-261			Examined 0°-180°
							UT-02-258			
							UT-02-259			
							UT-02-275			
	68	Regen HTEXCH	Two	4	4	68-1	UT-02-192			
						68-2	UT-02-193			
						68-8	UT-02-199			
						68-9	UT-02-200			
	69	Letdown HTEXCH	One	1	1	69-2	99-1484			Examined 0°-180°

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
	84	SD Cooling A	Two	50%	50%	74-124	UT-04-112			Examined 0°-180°
C 2.21	41	Steam Generator 1	One	1	1	41-34	01-1279	01-1008		
							01-1280			
			Two	2	2	41-9	UT-04-108	MT-04-006		
						41-10	UT-04-109	MT-04-007		
	42	Steam Generator 2	One	1	1	42-35	01-1281	01-1009		
							01-1282			
	84	SD Cooling A	Two	1	1	74-122	UT-04-110	MT-04-088		
C 2.22	41	Steam Generator 1	Two	2	2	41-9	UT-04-113			Inner Radius (ID) RR8
						41-10	UT-04-114			Inner Radius (ID) RR8
	84	SD Cooling A	Two	1	1	74-122	UT-04-115			Inner Radius (ID) RR8
C 3.10	41	Steam Generator 1	One	1	1	41-42		01-1447		
	42	Steam Generator 2	Two	1	1	42-43		MT-04-090		
	68	Regen HTEXCH	Two	2	2	68-10		PT-02-132		96% CC N460
						68-11		PT-02-133		96% CC N460
C 3.20	44	MS SG1 270	Two	1	1	SG-33H16		MT-02-184		
	45	MS SG2 270	One	1	1	SG-42H14		99-1430		
			Two	2	2	SG-42H15		MT-02-185		
						SG-42H16		MT-02-186		
	55	Feedwater SG 2	One	1	1	SG-5H9		01-1184		
								01-1185		
	62	Aux FW SG1	Two	1	1	AF-18-H1		PT-04-040		
	64	Blowdown SG 1	One	3	3	SG-39H15		01-1298		
								01-1302		
						SG-39H17		01-1303		Support Deleted
						SG-53H1		01-1002		Support Deleted
			Two	2	2	SG-39H1		MT-02-203		
						SG-53H5		MT-02-200		
								PT-02-176		
	65	Blowdown SG 2	One	2	2	SG-48H20		01-1295		Support Deleted
						SG-52H1		01-1003		Support Deleted
			Two	3	3	SG-48-H14		MT-04-077		
						SG-48-H16		MT-04-078		
						SG-48-H26		MT-04-079		
	71	LPSI Discharge	One	1	1	SI-87H11		99-1435		
	76	CS Suction	One	1	1	SI-9H4		99-1373		
	83	SD Cooling 1	Two	2	2	SI-87-H4		PT-04-061		
						SI-90-H1		PT-04-041		
	88	East Wrap	One	1	1	SI-72H13		99-1516		
	89	East Wrap	One	1	1	SI-194H14		99-1619		
	91	West Wrap	One	4	4	SI-70H9		99-1374		
						SI-70H11		99-1256		
						SI-70H12		99-1456		
						SI-70H16		99-1256		
	92	West Wrap	One	1	1	SI-241H21		99-1605		
			Two	2	2	SI-239-H1		PT-04-017		
						SI-241-H16		PT-04-018		
	93	CS Discharge 1	Two	1	1	SI-89-H13		PT-04-020		
	94	LPSI A	Two	2	2	SI-070H5		PT-02-121		
						SI-070-H8		PT-02-130		
	99	LPSI to Loop 2B	Two	1	1	SI-174H13		PT-02-129		
	100	LPSI Suction A	One	1	1	SI-369H1		99-1457		
			Two	1	1	84-5		PT-02-178		
	102	SI Suction A	One	3	3	SI-307H2		01-1446		
						SI-307H3		01-1446		
						SI-307H15		01-1446		
	103	Refuel. Suction A	Two	2	2	CH424H6		PT-02-118		
						CH142H20		PT-04-069		
	104	SI Suction B	Two	1	1	SI-308H3		PT-02-159		
	113	HPSI Discharge	One	1	1	SI-107H22		01-1198		Limited exam
C 3.30	72	LPSI Pump A	One	3	3	72-3A		01-1471		
						72-3B		01-1471		
						72-3C		01-1471		
	75	LPSI A	Two	3	3	73-3A		PT-04-004		
						73-3B		PT-04-005		
						73-3C		PT-04-006		
	78	CS A	Two	3	3	80-3A		PT-04-007		
						80-3B		PT-04-008		
						80-3C		PT-04-009		

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
	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
	117	HPSI Pump B	Two	4	4	117-1A		PT-04-034		
						117-1B		PT-04-035		
						117-1C		PT-04-036		
						117-1D		PT-04-037		
C 4.40	47	Main Steam SG 1	One	20	20	UV170	01-1372			
	48	Main Steam SG 1	One	20	20	UV180	01-1373			
	56	Feedwater SG 1	Two	40	40	V132	UT-02-209			20 Studs
						V174	UT-02-210			20 Studs
C 5.11 & 5.12	58	Aux Feed SG 1	Two	0(1)	0(1)	58-1	RT-04-001	PT-04-001		IEB 79-13
	59	Aux Feed SG 2	Two	2(4)	2(4)	59-1	UT-02-219	PT-02-140		PSE
							UT-02-220			
							UT-02-225			
						59-12	UT-04-134	PT-04-068		PSE
						59-16	UT-02-159	PT-02-097		PSE, AUG (IEB 79-13)
							UT-02-160			
							UT-02-161			
						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			
	62	Aux Feed SG 1	Two	1	1	62-6	UT-04-077	PT-04-002		
	63	Aux Feed SG 2	One	0	0	63-4	01-1525	01-1188		Needs PDI re-exam
							01-1526			
			Two	1(1)	1(1)	63-4	UT-04-078			Aug, PDI re-exam
						63-23	UT-04-079	PT-04-003		
	70 & 73	LPSI Suction A & B	One	1	1	70-58	99-1258	99-1257		
			Two	1	1	70-56	UT-02-174	PT-02-111		
							UT-02-175			
	82 & 85	SD Cooling HX A & B	One	2	2	72-50	99-1372	99-1316		
						73-49	01-1428	01-1189		
	83 & 86	SD Cooling HX 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		
						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
							01-1540			
						77-14	01-1522	01-1371		Limited exam
							01-1523			
							01-1524			
			Two	7	7	76-7	UT-04-089	PT-04-013		Limited UT Exam
						76-8	UT-04-090	PT-04-014		
						77-8	UT-04-091	PT-04-015		
						77-16	UT-04-092	PT-04-016		Limited UT Exam
						78-9J	UT-04-086	PT-04-010		
						78-11	UT-04-087	PT-04-011		
						79-14	UT-04-088	PT-04-012		Limited UT Exam
	90 & 93	SI East & West Wrap	Two	0(1)	0(1)	84-9	UT-04-093	PT-04-019		Aug, Limited UT exam
	94 & 95	SI A & B	One	1	1	74-40	01-1427	01-1430		
			Two	2	2	74-37	UT-02-172	PT-02-109		
							UT-02-173			
						74-38	UT-02-170	PT-02-110		
							UT-02-171			
	96,97,98& 99	LPSI Loop 1A, 1B, 2A, 2B	One	3	3	78-45	99-1513	99-1502		
						78-47	99-1514	99-1502		
						79-23	01-1276	01-1293		
							01-1277			

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ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
			Two	2	2	77-22	UT-02-162	PT-02-095		
						77-27	UT-02-163	PT-02-096		Limited UT exam
							UT-02-164			
	100	LPSI Suction A	Two	2	2	70-121	UT-02-165	PT-02-093		Limited UT exam
							UT-02-166			
						84-3	UT-02-291	PT-02-177		Limited UT exam
							UT-02-293			
	102	SI Suction A	One	0	0	84-12	01-1487	01-1191		
							01-1488			
			Two	1(1)	1(1)	84-26	UT-02-150	PT-02-090		Limited UT exam
							UT-02-169			
							UT-04-095	PT-04-022		Limited UT exam
						84-12	UT-04-094	PT-04-021		Aug, Limited UT exam
	103	Refuel. Suction A	One	1	1	86-57	01-1305	01-1300		
			Two	1	1	86-1	UT-02-186	PT-02-117		Limited UT exam
							UT-02-187			
	104	SI Suction B	One	1	1	85-46	01-1307	01-1301		Limited exam
							01-1308			
							01-1309			
			Two	1	1	85-31	UT-02-276	PT-02-158		
	105	Refuel. Suction B	One	1	1	87-23	01-1306	01-1192		
			Two	1	1	87-37	UT-02-277	PT-02-165		
							UT-02-279			
C 5.21	106 & 107	HPSI Discharge A & B	One	4	4	106-1	01-1244	01-1193		Limited exam
							01-1248			
							01-1252			
						106-21	01-1254	01-1193		Limited exam
							01-1257			
							01-1260			
						107-11	01-1245	01-1194		Limited exam
							01-1249			
							01-1253			
						107-42	01-1225	01-1194		Limited exam
							01-1226			
							01-1227			
			Two	4	4	106-64	UT-04-096	PT-04-024		Limited UT exam
						106-68	UT-04-097	PT-04-025		
						107-1	UT-04-098	PT-04-026		Limited UT exam
						107-22	UT-04-099	PT-04-027		
	108 & 109	HPSI Discharge	One	2	2	109-4	01-1246	01-1195		Limited exam
							01-1250			
						109-21	01-1489	01-1502		
			Two	3	3	108-1	UT-04-100	PT-04-028		
						108-4	UT-04-101	PT-04-029		
						108-25	UT-04-102	PT-04-030		
	110 & 111	HPSI Discharge	One	2	2	110-6	01-1247	01-1229		Limited exam
							01-1251			
						110-39	01-1261	01-1196		Limited exam
							01-1263			
							01-1265			
	112 & 113	HPSI Discharge A & B	One	3	3	112-1	01-1255	01-1197		Limited exam
							01-1258			
						112-33		01-1197		
						112-34	01-1259	01-1183		Limited exam
							01-1256	01-1374		
						112-45	01-1262	01-1197		Limited exam
							01-1264			
							01-1266			
			Two	2	2	113-21	UT-04-103	PT-04-031		Limited UT exam
						113-28	UT-04-104	PT-04-032		Limited UT exam
	114 &115	HPSI1A, 1B, 2A & 2B	One	1	1	115-13	01-1310	01-1274		Limited exam
							01-1311			
			Two	1	1	115-20	UT-02-298	PT-02-102		Limited UT exam
							UT-02-299			
	118& 119	HPSI Long Term	Two	4	4	118-49	UT-02-167	PT-02-094		Limited UT exam
							UT-02-168			
						119-52	UT-02-300	PT-02-166		Limited UT exam
							UT-02-301			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Reports Vol	Reports Surf	Visual	Remarks
						119-26	UT-04-105	PT-04-038		
						119-53	UT-04-106	PT-04-039		Limited UT exam
C 5.30	106&107	HPSI Discharge A&B	One	1	1	107-53		01-1194		
			Two	1	1	106-61		PT-04-023		
C 5.41 &	82 & 85	SD Cooling HX A & B	One	1	1	72-49A		99-1316		
5.42	88 & 91	East & West Wrap	One	1	1	74-102		99-1279		
	96	LPSI to Loop 1A	Two	1	1	76-78		PT-02-100		
C 5.51 &	43	MS SG1 90	One	1	1	43-2	99-1443	99-1432		
5.52	44	MS SG1 270	One	1	1	44-1	99-1442	99-1431		
			Two	2	2	44-5	UT-02-217	MT-02-182		
						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		
						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
						54-11A	UT-02-295	MT-02-202		
	55	Feedwater SG 2	One	2	2	55-1	01-1204	01-1001		
						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)
							01-1619			
			Two	1	1	55-26	UT-02-294	MT-02-196		PSE
	58	Aux & Dwncmr SG1	One	1(5)	1(5)	41-39	99-1495	99-1508		()Identifies augment
						58-1	99-1494	99-1501		EXAM (IEB 79-13
						58-12	99-1286	99-1231		& SER 83-07)
						58-13	99-1289	99-1231		
						58-16	01-1529	99-1285		
								01-1297		
						58-16A	01-1528	99-1285		
								01-1297		
						58-6	01-1559	01-1530		PSE (Vol is RT)
							01-1560			
							01-1561			
						58-35	01-1562	01-1530		PSE (Vol is RT)
						58-36	01-1563	01-1530		PSE (Vol is RT)
			Two	0(4)	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 SG2	One	0(5)	0(5)	59-1	99-1496	99-1507		
						59-2	01-1641	01-1531		PSE (Vol is RT)
						59-12	99-1292	99-1232		
						59-13	99-1293	99-1232		
						59-16	99-1290	99-1198		
							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
							01-1426			
							01-1527			
			Two	1(1)	1(1)	59-12		MT-02-197		Now C 5.11
						59-13	UT-04-066	MT-02-198		AUG (IEB 79-13)
						59-25	UT-02-151	MT-02-160		
							UT-02-152			

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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
	64	Blowdown SG 1	One	1	1	64-1	01-1242	01-1002		
	65	Blowdown SG 2	One	1	1	65-28	01-1243	01-1003		
			Two	1	1	65-52	UT-02-153 UT-02-154	MT-02-159		
C 6.10	116	HPSI Pump A	by end of interval		116-2			01-1473		
	117	HPSI Pump A	by end of interval		117-1			PT-04-033		
C 7.10	N/A	Pressure Vessels	One	All	All	Press Bound			01-1011	
C 7.30	N/A	Piping							01-1012	
C 7.50	N/A	Pumps							01-1013	
C 7.70	N/A	Valves							01-1014	
									01-1312	
									01-1317	
									01-1318	
									01-1319	
									01-1320	
									01-1321	
									01-1323	
									01-1324	
									01-1325	
									01-1326	
									01-1432	
									01-1436	
									01-1437	
									01-1440	
									01-1441	
									01-1443	
									01-1444	
									01-1445	
									01-1485	
									01-1486	
									01-1496	
									01-1504	
									01-1507	
									01-1508	
									01-1509	
									01-1536	
									01-1537	
									01-1538	
									01-1539	
									01-1557	
									01-1597	
									01-1615	
									01-1625	
									01-1626	
									01-1627	
									01-1629	
									01-1630	
									01-1631	
									01-1632	
									01-1633	
									01-1634	
									01-1635	
									01-1636	
									01-1638	
									01-1642	
									01-1644	
									01-1645	
									01-1646	
									01-1647	
									01-1648	
									01-1649	
									01-1650	
									01-1653	
									VT-03-001	
									VT-03-002	
									VT-03-003	
									VT-03-005	

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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
			Two	ALL	ALL	Press Boundary			VT-03-004	
									VT-03-006	
									VT-03-007	
									VT-03-008	
									VT-03-009	
									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-03-020	
									VT-03-021	
									VT-03-022	
									VT-03-023	
									VT-03-024	
									VT-03-025	
									VT-03-026	
									VT-03-027	
									VT-03-028	
									VT-03-029	
									VT-03-030	
									VT-03-031	
									VT-03-032	
									VT-03-033	
									VT-03-034	
									VT-03-035	
									VT-04-335	
									VT-04-336	
									VT-04-337	
									VT-04-343	
									VT-04-345	
									VT-04-346	
									VT-04-348	
									VT-04-349	
									VT-04-350	
									VT-04-351	
									VT-04-352	
									VT-04-353	
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									VT-04-356	
									VT-04-357	
									VT-04-358	
									VT-04-359	
									VT-04-362	
									VT-04-364	
									VT-04-365	
									VT-04-366	
									VT-04-368	
									VT-04-369	
									VT-04-370	
									VT-04-371	
									VT-04-374	
									VT-04-375	
									VT-04-377	
									VT-04-382	
									VT-04-383	
									VT-04-384	
									VT-04-385	
									VT-04-392	
									VT-04-409	
									VT-04-411	
									VT-04-412	
									VT-04-419	
									VT-04-420	

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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
									VT-04-421	
									VT-04-422	
									VT-04-432	
									VT-04-434	
									VT-04-436	
									VT-04-437	
									VT-04-438	
									VT-04-439	
									VT-04-440	
									VT-04-441	
									VT-04-442	
									VT-04-443	
									VT-04-444	
									VT-04-446	
									VT-04-447	
									VT-04-451	
F 1.20	43	MS SG 1 90	One	2	2	SG-36-H17			99-1240	
						SG-36-H884			99-1242	
						SG-36-H885			99-1241	
			Two	1	1	SG-36-H11			VT-02-622	RR #4
	44	MS SG1 270	One	2	2	SG-33-H17			99-1278	
						SG-33-H18			99-1243	Support Deleted
			Two	3	3	SG-33-H16			VT-02-694	RR #4
						SG-33-H881			VT-02-693	RR #4
						SG-33-H882			VT-02-695	RR #4
	45	MS SG 2 270	One	1	1	SG-42-H14			99-1244	
			Two	3	3	SG-42-H11			VT-02-690	RR #4
						SG-42-H15			VT-04-014	RR#4, Removed
						SG-42-H16			VT-04-015	RR#4
	46	MS SG 2 90	One	2	2	SG-45-H17			99-1441	
						SG-45-H18			99-1463	Support Deleted
			Two	3	3	SG-45-H11			VT-02-691	RR #4
						SG-45-H887			VT-02-689	RR #4
						SG-45-H888			VT-02-692	RR #4
	47	MS SG1 270	One	1	1	SG-206-H1			99-1318	
	48	MS SG1 270	Two	1	1	SG-207-H1			VT-04-016	
	51	Atm Dump SG1	One	1	1	SG-59-H6			99-1575	
			Two	1	1	SG-70H6			VT-04-017	
	52	Atm Dump SG2	One	0	1	SG-103-H6			01-1566	PSE
	53	Steam to Aux FW	One	4	4	SG-81-H1			99-1679	
						SG-81-H2			99-1680	
						SG-83-H1			99-1681	
						SG-83-H2			99-1682	
			Two	2	2	SG-81-H4			VT-02-602	Support Deleted
						SG-83-H4			VT-02-603	Support Deleted
	54	Feedwater SG 1	One	7	7	SG-2-H2			01-1602	Expansion
						SG-2-H4			01-1022	
						SG-2-H5			01-1021	
						SG-2-H12			01-1062	Reject
									01-1603	Re-exam
						SG-2-H13			01-1020	
						SG-2-H14			01-1019	
						SG-2-H15			01-1018	
						SG-2-H803			01-1025	
						SG-13-H1			01-1612	Expansion
			Two	7	7	SG-02-H09			VT-04-018	RR#4
						SG-02-H10			VT-04-019	RR#4
						SG-02-H11			VT-04-020	RR#4
						SG-02-H806			VT-04-021	
						SG-02-H811			VT-04-022	RR#4
						SG-13-H1			VT-04-023	RR#4
						SG-13-H802			VT-04-024	RR#4
	55	Feedwater SG 2	One	9	9	SG-5-H9			01-1173	
						SG-5-H10			01-1174	
						SG-5-H11			01-1175	
						SG-5-H12			01-1036	
						SG-5-H14			01-1477	PSE
						SG-5-H805			01-1037	
						SG-5-H809			01-1038	
						SG-5-H812			01-1039	

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ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
						SG-14-H1			01-1034	
						SG-14-H804			01-1035	
			Two	7	7	SG-5-H4			VT-02-559	
						SG-5-H5			VT-02-560	Reject
									VT-02-656	Re-exam
						SG-5-H6			VT-02-561	RR #4
						SG-5-H7			VT-02-562	
						SG-5-H8			VT-02-564	RR #4
						SG-5-H13			VT-02-563	Reject
									VT-02-657	Re-exam
						SG-5-H14			VT-02-565	
	56	FW SG1	Two	1	1	SG-202-H1			VT-04-025	
	58	Aux & Dwncmr SG1	One	7	7	SG-8-H2			01-1604	
						SG-8-H3			01-1606	
						SG-8-H4			01-1608	
						SG-8-H5			01-1607	
						SG-8-H20			01-1609	
						SG-8-H901			01-1448	
						SG-8-H903			01-1605	
			Two	7	7	SG-8-H6			VT-02-520	RR #4
						SG-8-H7			VT-02-449	RR #4
						SG-8-H8			VT-02-451	Reject
									VT-02-649	Re-exam
						SG-8-H9			VT-02-452	
						SG-8-H10			VT-02-453	
						SG-8-H11			VT-02-454	
						SG-8-H17			VT-02-519	RR #4
	59	Aux & Dwncmr SG2	One	6	6	AF-6-H1			99-1261	
						SG-11-H8			99-1201	
						SG-11-H9			99-1246	
						SG-11-H10			99-1245	
						SG-11-H11			99-1200	
						SG-11-H12			99-1199 99-1332	
			Two	6	6	SG-11-H3			VT-02-702	PSE
						SG-11-H13			VT-02-566	
						SG-11-H14			VT-02-567	
						SG-11-H15			VT-02-568	
						SG-11-H16			VT-04-026	
						SG-11-H17			VT-04-408	RR#4, PSE
						SG-11-H18			VT-02-455	
						SG-11-H19			VT-02-570	
	60	Dwncmr FW SG1	One	1	1	SG-200H9			99-1668	
						SG-200-H13			99-1669	PSE
						SG-200-H14			99-1670	PSE
	61	Dwncmr FW SG2	One	0	0	SG-203-H13			99-1671	PSE
						SG-203-H14			99-1672	PSE
			Two	2	2	SG-203-H13			VT-04-027	
						SG-203-H14			VT-04-028	
	62	Aux FW SG1	One	1	1	AF-4-H3			99-1461	
			Two	1	1	AF-18-H1			VT-04-042	
	63	Aux FW SG2	One	2	2	AF-6-H2			99-1462	
						AF-16-H1			99-1460	
			Two	2	2	AF-6-H3			VT-04-043	RR#4
						AF-6-H5			VT-04-044	RR#4
	64	Blowdown SG 1	One	12	12	SG-39-H10			01-1449	
						SG-39-H11			01-1450	Support Deleted
						SG-39-H12			01-1451	
						SG-39-H13			01-1452	Support Deleted
						SG-39-H14			01-1453	Support Deleted
						SG-39-H15			01-1454	
						SG-39-H16			01-1455	
						SG-39-H17			01-1456	Support Deleted
						SG-39-H26			01-1457	
						SG-53-H1			01-1031	Support Deleted
						SG-53-H2			01-1032	Support Deleted
						SG-53-H924			01-1033	
			Two	13	13	SG-39-H1			VT-02-480	Support Deleted
						SG-39-H2			VT-02-481	Support Deleted
						SG-39-H3			VT-02-482	Support Deleted

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ASME Item no	Zone	Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
						SG-39-H4			VT-02-483	
						SG-39-H5			VT-02-484	
						SG-39-H6			VT-02-485	Support Deleted
						SG-39-H27			VT-02-486	Support Deleted
						SG-53-H3			VT-02-488	Support Deleted
						SG-53-H4			VT-02-489	
						SG-53-H5			VT-02-490	
						SG-53-H6			VT-02-491	Support Deleted
						SG-53-H7			VT-02-492	Support Deleted
						SG-39-H922			VT-04-029	RR#4
	65	Blowdown SG 2	One	12	12	SG-48-H2			01-1030	Support Deleted
						SG-48-H3			01-1478	Support Deleted
						SG-48-H4			01-1479	
						SG-48-H19			01-1480	Support Deleted
						SG-48-H20			01-1481	Support Deleted
						SG-48-H21			01-1482	
						SG-48-H925			01-1029	
						SG-52-H1			01-1026	Support Deleted
						SG-52-H2			01-1027	Support Deleted
						SG-52-H3			01-1483	Support Deleted
						SG-52-H4			01-1484	
						SG-52-H923			01-1028	
			Two	11	11	SG-48-H13			VT-02-456	Support Deleted
						SG-48-H14			VT-02-457	RR #4
						SG-48-H15			VT-02-458	Support Deleted
						SG-48-H16			VT-02-459	RR #4
						SG-48-H17			VT-02-460	Support Deleted
						SG-48-H18			VT-02-461	RR #4
						SG-48-H22			VT-02-462	Support Deleted
						SG-48-H23			VT-02-463	RR #4
						SG-48-H24			VT-02-464	RR #4
						SG-48-H25			VT-02-465	Support Deleted
						SG-48-H26			VT-02-466	Support Deleted
	68	Regen Htexch	Two	2	2	68-10			VT-02-590	
						68-11			VT-02-591	
	70	LPSI Suction A	One	1	1	SI-67-H4			99-1248	
						SI-307-H16			99-1428	PSE
	71	LPSI Discharge A	One	1	1	SI-87-H11			99-1247 99-1375	
			Two	5	5	SI-78-H1			VT-02-541	
						SI-78-H2			VT-02-542	
						SI-87-H1			VT-02-543	
						SI-87-H2			VT-02-544	
						SI-87-H3			VT-02-545	
	73	LPSI Suction B	Two	1	1	SI-308-H14			VT-02-546	
	76	CS Suction A	One	1	1	SI-9-H4			99-1376	
									99-1438	
						SI-67-H1			99-1427	PSE
						SI-67-H3			99-1426	PSE
	77	CS Discharge A	One	4	4	SI-79-H1			99-1377	
						SI-79-H2			99-1378	
						SI-79-H3			99-1379	
						SI-79-H4			99-1380	
			Two	3	3	SI-79-H5			VT-04-033	RR#4
						SI-79-H6			VT-04-034	RR#4
						SI-82-H2			VT-04-035	RR#4
	79	CS Suction B	One	3	3	SI-79-H4			99-1517	
						SI-34-H2			99-1518	
						SI-34-H3			99-1519	
			Two	1	1	SI-33-H4			VT-04-039	
	80	CS Discharge B	One	3	3	SI-119-H7			99-1527	
						SI-119-H8			99-1528	
						SI-119-H9			99-1529	
			Two	4	4	SI-119-H1			VT-04-040	RR#4
						SI-119-H2			VT-04-041	RR#4
						SI-119-H3			VT-04-045	RR#4
						SI-119-H4			VT-04-046	RR#4
	82	SD Cooling HX A	One	2	2	SI-78-H4			99-1296	
						SI-78-H5			99-1595	
									01-1564	PSE

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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
						SI-79-H10			99-1297	
									01-1458	
	83	SD Cooling HX A	One	4	4	SI-87-H9			99-1312	
						SI-89-H1			99-1300	
						SI-89-H2			99-1299	
						SI-89-H3			99-1298	
			Two	3	3	SI-87-H4			VT-04-047	
						SI-90-H1			VT-04-320	
						SI-90H2			VT-04-321	RR#4
	85	SD Cooling HXB	One	3	3	SI-119-H10			99-1530	
						SI-123-H6			99-1531	
						SI-123-H7			99-1532	
			Two	6	6	SI-119-H11			VT-04-050	RR#4
						SI-119-H13			VT-04-051	RR#4
						SI-119-H14			VT-04-052	RR#4
						SI-123-H2			VT-04-053	RR#4
						SI-123-H5			VT-04-054	RR#4
						SI-123-H8			VT-04-055	RR#4
	86	SD Cooling HXB	One	3	3	SI-129-H10			99-1406	
						SI-129-H11			99-1405	
						SI-129-H12			99-1407	
			Two	7	7	SI-072-H5			VT-04-056	
						SI-072-H6			VT-04-057	RR#4
						SI-129-H7			VT-04-058	RR#4
						SI-129-H8			VT-04-059	RR#4
						SI-129-H9			VT-02-672	Expansion, RR #4
						SI-135-H1			VT-02-675	Expansion, RR #4
						SI-135-H2			VT-04-060	RR#4
						SI-135-H3			VT-04-061	
	88	East Wrap	One	8	8	SI-72-H11			99-1533	
						SI-72-H13			99-1534	
						SI-72-H14			99-1535	
						SI-72-H21			01-1333	
						SI-72-H22			01-1334	
						SI-73-H1			01-1459	
						SI-73-H2			01-1460	
						SI-73-H3			01-1461	
			Two	0	0	SI-72-H11			VT-02-685	Expansion, RR #4
						SI-72-H13			VT-02-686	Expansion, RR #4
						SI-72-H14			VT-02-687	Expansion, RR #4
						SI-73-H2			VT-02-688	Expansion, RR #4
	89	East Wrap	One	4	4	SI-194-H12			99-1536	
						SI-194-H13			99-1537	
						SI-194-H14			99-1640	
						SI-194-H23			99-1641	
			Two	0	0	SI-194-H13			VT-02-668	Expansion, RR #4
	90	East Wrap	Two	2	2	SI-134-H09			VT-04-062	
						SI-134-H10			VT-04-063	
	91	West Wrap	One	7	7	SI-70H9			99-1255	
						SI-70-H10			99-1254	
						SI-70-H11			99-1253	
						SI-70-H12			99-1252	
						SI-70-H13			99-1249	
						SI-70-H15			99-1251	
						SI-70-H16			99-1250	
			Two	2	2	SI-71-H2			VT-04-064	
						SI-71-H3			VT-04-065	
	92	West Wrap	One	5	5	SI-239-H1			99-1673	Expansion
						SI-239-H2			99-1674	Expansion
						SI-239-H3			99-1598	
									01-1565	PSE
						SI-241-H9			99-1418	PSE
						SI-241-H12			99-1417	PSE
						SI-241-H14			99-1419	PSE
						SI-241-H15			99-1597	
						SI-241-H21			99-1596	
			Two	5	5	SI-241-H9			VT-02-653	Expansion, RR #4
						SI-241-H12			VT-02-654	Expansion, RR #4
						SI-241-H14			VT-02-658	Expansion, RR #4
						SI-241-H21			VT-02-660	Expansion, RR #4

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
						SI-239-H1			VT-04-066	
						SI-239-H2			VT-04-067	
						SI-241-H11			VT-04-068	RR#4
						SI-241-H16			VT-04-069	
	93	West Wrap	Two	2	2	SI-89-H10			VT-04-070	RR#4
						SI-89-H13			VT-04-071	
	94	LPSI A	One	3	3	SI-89-H7			99-1398	
						SI-89-H8			99-1399	
						SI-89-H9			99-1400	
						SI-241-H5			99-1302	PSE
						SI-241-H7			99-1423	PSE
						SI-241-H8			99-1421	PSE
			Two	7	7	SI-070-H4			VT-02-589	
						SI-070-H5			VT-02-697	
						SI-070-H8			VT-02-495	
						SI-241-H6			VT-02-624	RR #4
						SI-241-H7			VT-02-642	RR #4
						SI-241-H08			VT-04-072	RR#4
						SI-241-H17			VT-04-073	RR#4
	95	LPSI B	One	6	6	SI-72-H8			99-1401	
						SI-72-H10			99-1402	
						SI-134-H11			99-1403	
						SI-134-H12			99-1404	
						SI-194-H3			99-1414	
						SI-194-H5			99-1415	
			Two	10	10	SI-72-H10			VT-02-644	Expansion, RR #4
						SI-194-H5			VT-02-650	Expansion, RR #4
						SI-072-H7			VT-04-074	RR#4
						SI-072-H9			VT-04-075	RR#4
						SI-194-H4			VT-04-076	RR#4
						SI-194-H7			VT-04-077	RR#4
						SI-194-H8			VT-04-078	RR#4
						SI-194-H9			VT-04-079	RR#4
						SI-194-H10			VT-04-080	RR#4
						SI-194-H11			VT-04-081	RR#4
						SI-194-H15			VT-04-082	RR#4
						SI-194-H21			VT-04-083	RR#4
	96	LPSI to Loop 1A	One	3	3	SI-202-H7			99-1342	
						SI-202-H8			99-1343	Support Deleted
						SI-202-H9			99-1344	Support Deleted
			Two	8	8	SI-202-H1			VT-02-670	Expansion
						SI-202-H2			VT-02-467	RR #4
						SI-202-H3			VT-02-468	RR #4
						SI-202-H4			VT-02-469	Reject
									VT-02-651	Re-exam
						SI-202-H6			VT-02-470	RR #4
						SI-202-H7			VT-02-671	Expansion
						SI-202-H10			VT-02-471	Support Deleted
						SI-202-H11			VT-02-472	Support Deleted
						SI-202-H12			VT-02-673	Expansion
						SI-202-H15			VT-02-473	RR #4
						SI-202-H16			VT-02-674	Expansion
						SI-202-H18			VT-02-676	Expansion
						SI-202-H5			VT-04-084	Snubber deleted
	97	LPSI to Loop 1B	One	10	10	SI-220H8			01-1468	
						SI-220H9			99-1333	
						SI-220-H10			99-1334	
						SI-220-H11			99-1335	Support Deleted
						SI-220-H12			99-1336	
						SI-220-H13			99-1337	
						SI-220-H14			99-1338	Support Deleted
						SI-220-H15			99-1339	
						SI-220-H19			99-1340	
						SI-220H22			99-1341	Support Deleted
			Two	7	7	SI-220-H1			VT-02-444	
						SI-220H5			VT-02-677	Expansion
						SI-220-H16			VT-02-446	RR #4
						SI-220-H17			VT-02-447	
						SI-220-H18			VT-02-448	

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
						SI-220H20			VT-02-443	Reject RR #4
									VT-02-648	Re-exam
						SI-220H21			VT-02-445	Support Deleted
						SI-220H27			VT-02-678	Expansion
						SI-220H28			VT-02-450	Support Deleted
	98	LPSI to Loop 2A	One	2	2	SI-155-H5			99-1329	
						SI-155-H6			99-1328	
			Two	5	5	SI-155-H6			VT-02-679	Expansion
						SI-155-H11			VT-04-085	
						SI-155-H12			VT-04-086	Snubber deleted
						SI-155-H13			VT-04-087	Snubber deleted
						SI-155-H14			VT-04-088	Snubber deleted
						SI-155-H17			VT-04-089	
	99	LPSI to Loop 2B	Two	5	5	SI-174-H4			VT-02-680	Expansion
						SI-174-H7			VT-02-554	Support Deleted
						SI-174-H8			VT-02-555	
						SI-174-H9			VT-02-556	Support Deleted
						SI-174-H11			VT-02-681	Expansion
						SI-174-H12			VT-02-682	Expansion
						SI-174-H13			VT-02-558	
						SI-174-H10			VT-04-090	RR#4
	100	LPSI Suction A	One	2	2	SI-241-H19			99-1330	Reject
									99-1642	Re-exam
									01-1469	Re-exam
						SI-369-H1			99-1331	
			Two	1	1	84-5			VT-02-696	
	101	Cont LPSI Train B Suction	Two	0	0	SI-194-H16			VT-02-683	Expansion
						SI-194-H22			VT-02-684	Expansion
	102	SI Suction A	One	6	6	SI-8-H4			99-1303	PSE
						SI-9-H1			99-1429	PSE
						SI-307-H2			99-1422	PSE
						SI-307-H5			99-1304	PSE
						SI-307-H6			99-1425	PSE
						SI-307-H7			99-1424	PSE
						SI-307-H2			01-1462	
						SI-307-H3			01-1463	
						SI-307-H4			01-1464	Support Deleted
						SI-307-H5			01-1465	
						SI-307-H8			01-1466	
						SI-307-H15			01-1467	
			Two	7	7	SI-8-H1			VT-02-436	RR #4
						SI-8-H2			VT-02-437	Support Deleted
						SI-8-H3			VT-02-438	RR #4
						SI-8-H4			VT-02-439	RR #4
						SI-307-H6			VT-02-440	RR #4
						SI-307-H7			VT-02-441	RR #4
						SI-307-H14			VT-02-442	Support Deleted
	103	Refuel Suction A	One	6	6	CH-142-H3			99-1420	PSE
						CH-142-H13			99-1408	
						CH-142-H14			99-1409	
						CH-142-H15			99-1410	
						CH-142-H19			99-1412	
						CH-142-H22			99-1411	
						CH-424-H1			99-1413	
						CH-424-H2			99-1386	PSE
						CH-424-H3			99-1385	PSE
			Two	6	6	CH-142-H8			VT-02-504	
						CH-142-H20			VT-02-522	
						CH-142-H21			VT-02-505	
						CH-424-H2			VT-02-499	
						CH-424-H3			VT-02-500	RR #4
						CH-424-H6			VT-02-521	
	104	SI Suction B	One	7	7	SI-33-H1			99-1520	Support Deleted
						SI-33-H2			99-1521	
						SI-33-H3			99-1522	
						SI-308-H5			99-1523	
						SI-308-H8			99-1524	
						SI-308-H10			99-1525	
						SI-308-H11			99-1526	

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
			Two	7	7	SI-308-H1			VT-02-547	
						SI-308-H2			VT-02-548	
						SI-308-H3			VT-02-549	
						SI-308-H4			VT-02-550	
						SI-308-H6			VT-02-571	Support Deleted
						SI-308-H7			VT-02-551	Support Deleted
						SI-308-H15			VT-04-091	
	105	Refuel. Suction B	One	7	7	CH-149-H9			01-1396	
						CH-149-H10			01-1397	
						CH-149-H12			01-1398	
						CH-149-H13			01-1399	
						CH-149-H14			01-1400	
						CH-149-H21			01-1401	
						CH-149-H28			01-1402	
			Two	7	7	CH-149-H4			VT-04-092	
						CH-149-H5			VT-04-093	
						CH-149-H6			VT-04-094	
						CH-149-H7			VT-04-095	
						CH-149H25			VT-04-096	
						CH-149H26			VT-04-097	
						CH-149H27			VT-04-098	
	106	HPSI Discharge A	One	8	8	SI-99-H1			01-1046	
						SI-99-H2			01-1047	
						SI-100-H1			01-1048	
						SI-100H2			01-1049	
						SI-100H3			01-1050	
						SI-100H5			01-1051	
						SI-100H34			01-1052	
						SI-106-H1			01-1053	
			Two	7	7	SI-100-H9			VT-04-099	
						SI-100-H10			VT-04-100	
						SI-100-H11			VT-04-101	
						SI-105-HB			VT-04-102	RR#4
						SI-105-HC			VT-04-103	RR#4
						SI-105-HD			VT-04-104	RR#4
						SI-105-HE			VT-04-105	RR#4
	107	HPSI Discharge B	One	6	6	SI-107-H3			01-1057	
						SI-107-H11			01-1056	
						SI-107-H12			01-1059	
						SI-112-HC			01-1055	
						SI-112-HG			01-1054	
						SI-112-HH			01-1058	
			Two	6	6	SI-107-H5			VT-04-106	RR#4
						SI-107-H6			VT-04-107	
						SI-107-H7			VT-04-108	
						SI-107-H8			VT-04-109	
						SI-107-H9			VT-04-110	
						SI-107-H10			VT-04-111	
	108	HPSI Discharge	One	11	11	SI-100H22			99-1388	
						SI-100H23			99-1387	
						SI-100H24			99-1389	
						SI-100H25			99-1390	
						SI-100H26			99-1391	
						SI-100H27			99-1392	
						SI-100H28			99-1393	
						SI-100H29			99-1394	
						SI-100H31			99-1395	
						SI-100H32			99-1396	
						SI-100H35			99-1397	
			Two	11	11	SI-100-H12			VT-04-112	RR#4
						SI-100-H13			VT-04-113	RR#4
						SI-100-H18			VT-04-114	RR#4
						SI-100-H19			VT-04-115	RR#4
						SI-100-H20			VT-04-116	RR#4
						SI-100-H21			VT-04-117	RR#4
						SI-118-HA			VT-04-118	RR#4
						SI-118-HB			VT-04-119	RR#4
						SI-118-HD			VT-04-120	RR#4
						SI-118-HR			VT-04-121	RR#4
						SI-118-HS			VT-04-122	RR#4

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
	109	HPSI Discharge	One	7	7	SI-107-H13			01-1335	
						SI-107-H14			01-1336	
						SI-107-H15			01-1337	
						SI-107-H16			01-1338	
						SI-107-H21			01-1339	
						SI-107-H47			01-1340	
						SI-107-H50			01-1341	
			Two	7	7	SI-107-H19			VT-04-123	RR#4
						SI-107-H20			VT-04-124	RR#4
						SI-107-H25			VT-04-125	RR#4
						SI-107-H26			VT-04-126	RR#4
						SI-107-H27			VT-04-127	RR#4
						SI-107-H28			VT-04-128	RR#4
						SI-107-H29			VT-04-129	RR#4
	110	HPSI Discharge	One	7	7	SI-103-HB			01-1403	
						SI-103-HD			01-1404	
						SI-103-HE			01-1405	
						SI-218-H1			01-1342	
						SI-218-H2			01-1343	
						SI-218-H3			01-1344	
						SI-218-H4			01-1345	
			Two	7	7	SI-107-H39			VT-04-130	RR#4
						SI-107-H41			VT-04-131	
						SI-107-H42			VT-04-132	
						SI-107-H43			VT-04-133	
						SI-107-H44			VT-04-134	RR#4
						SI-107-H45			VT-04-135	RR#4
						SI-107-H49			VT-04-136	RR#4
	111	HPSI Discharge	One	3	3	SI-100H37			01-1348	
						SI-100HA			01-1346	
						SI-100HB			01-1347	
			Two	4	4	SI-236-H1			VT-04-137	
						SI-236-H2			VT-04-138	RR#4
						SI-236-H3			VT-04-139	RR#4
						SI-236-H4			VT-04-140	
	112	HPSI Discharge	One	3	3	SI-176-H1			01-1349	
						SI-176-H2			01-1350	
						SI-176-H3			01-1351	
			Two	3	3	SI-100-H17			VT-04-141	
						SI-102-HA			VT-04-142	
						SI-102-HB			VT-04-143	
	113	HPSI Discharge	One	5	5	SI-107-H22			01-1061	
						SI-107-H24			01-1060	
						SI-157-H2			01-1352	
						SI-157-H3			01-1353	
						SI-157-H4			01-1354	
			Two	4	4	SI-106-HA			VT-04-144	
						SI-109-HA			VT-04-145	
						SI-157-HA			VT-04-146	
						SI-176-HA			VT-04-147	
	115	HPSI 2A & 2B	Two	3	3	SI-157-H10			VT-02-502	Support Deleted
						SI-157-H11			VT-02-503	RR #4
						SI-176-H4			VT-02-501	RR #4
F 1.40	41	Steam Generator 1	One	2	2	41-42			01-1498	
						41-43			01-1499	
	42	Steam Generator 1	Two	2	2	42-42			VT-04-011	
						42-43			VT-04-013	
	72	LPSI Pump A	One	3	3	72-3A			01-1472	
						72-3B			01-1472	
						72-3C			01-1472	
	75	LPSI Pump B	Two	3	3	73-3A			VT-04-030	
						73-3B			VT-04-031	
						73-3C			VT-04-032	
	78	CS Pump A	Two	3	3	80-3A			VT-04-036	
						80-3B			VT-04-037	
						80-3C			VT-04-038	
	116	HPSI Pump A	One	4	4	116-1A			01-1474	
						116-1B			01-1474	
						116-1C			01-1474	
						116-1D			01-1474	

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
	117	HPSI Pump B	Two	4	4	117-1A			VT-04-148	
						117-1B			VT-04-149	
						117-1C			VT-04-150	
						117-1D			VT-04-151	

APPENDIX B

CODE LIMITATIONS

REFUELING OUTAGE NUMBER ELEVEN

CODE LIMITATIONS

ASME ITEM	ZONE/COMPONENT	ITEM ID	REPORT NO.
B 9.11	23 SI 1A	23-4	UT-04-001
B 9.11	29 PZR Spray	29-2	UT-04-003
C 5.11	88 SI East Wrap	76-7	UT-04-089
C 5.11	88 SI East Wrap	77-16	UT-04-092
C 5.11	88 SI East Wrap	79-14	UT-04-088
C 5.11	102 SI Suction A	84-26	UT-04-095
C 5.21	106 HPSI Discharge A	106-64	UT-04-096
C 5.21	107 HPSI Discharge B	107-1	UT-04-098
C 5.21	113 HPSI Discharge B	113-21	UT-04-103
C 5.21	113 HPSI Discharge B	113-28	UT-04-104
C 5.21	119 HPSI Long Term	119-53	UT-04-106

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

APPENDIX C

FORM
NIS-1

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER - *ARIZONA PUBLIC SERVICE COMPANY, et al*

   ADDRESS - *P.O. BOX 52034, PHOENIX, ARIZONA 85072*

2. PLANT - *PALO VERDE NUCLEAR GENERATING STATION*

   ADDRESS - *5801 SOUTH WINTERSBURG ROAD; TONOPAH, ARIZONA 85354-7529*

3. UNIT NUMBER - *1*

4. OWNERS' CERTIFICATE OF AUTHORIZATION - *NONE*

5. COMMERCIAL SERVICE DATE - *January 28, 1986*

6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	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 4-4-2004 TO 5-10-2004

8. INSPECTION INTERVAL FROM 7-18-1998 TO 7-17-2008

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 evaluation of the results form the ISI examinations indicate the integrity of the systems have been maintained. There were no rejectable indications found during this ISI inspection activity.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

There were no rejectectable indications found during this ISI inspection activity.

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 Company.

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 7/23/2004 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael Meeks

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 10-31-02 TO 7-23-04, 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 RJ Hylton COMMISSIONS N.B. 9685 "A,N,I,C" Az 264

NAT'L BOARD, STATE, PROVINCE

DATE 7-23-04

APPENDIX D

FORMS
NIS-2

ASME SECTION XI – REPAIR / REPLACEMENT

Page of

1. Component ID 1JCHEPSV0345 2. Code Class ASME Section III Class 2
3. Item Description: Pressure Safety Valve Nozzle and Disc Insert
4. N-5 Data Package Number: 1CH13-1 5. W.O. Number: 2561273
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1971 Edition, Winter 1973 Addenda
8. Work Description: Rework valve as required to address set point verification failure.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
~~Rework the flange to existing configurations at PVNGS and~~
✓ return to stores as a spare. No failure involved. (ASME boundary) RRindap 10-28-02
└ Replace nozzle & disc insert to reestablish set point and
RRindap 10-28-02
11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1976 Summer Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DWS Date 10/25/02 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DWS Date 10/25/02 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DWS Date 10/25/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DWS Date 10/25/02 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.
PSV Nozzle	APN 45070039	92031-10-0015		MR 694856
PSV Disc Insert	APN 45630021	92032-34-0010		MR 694856

19. Planner D W Shaffer (Signature) 10/25/02 (Date) Printed Name: David W. Shaffer
20. ISI Alan Morrow (Signature) 10/27/02 (Date) Printed Name: Alan Morrow
21. ANII R G Hogstron (Signature) 10-28-02 (Date) Printed Name: R.G. Hogstron

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 10/31/2002

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2561273

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: (CH) CHEMICAL AND VOLUME CONTROL

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1976 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.	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

7. Description of Work: Disasembled removed valve for inspection and troublshooting to correct identified deficiencies causing set point verification failure. Inspection determined the replacement of the Nozzel and Disc Insert was required.

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.

FORM NIS-2 (Back)

9. 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.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: Alan Monow FSI Engineer Date: 10/31/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 10-28-02 to 10-31-02, 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.

Inspectors Signature

Commissions: **NB 9685 "N" "I" AZ264**
National Board, State, Province, and Endorsements

Date: 10-31-02

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1JSGEUV0183 2. Code Class ASME Section III Class 2
2. Item Description: ANCHOR/DARLING 4"-900# PRESSURE SEAL GATE VALVE
4. N-5 Data Package Number: 1SG02-1 5. W.O. Number: 2564303
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replace valve bonnet due to steam cutting from bonnet seal leak.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure in the ASME Sec. III boundary, since damage is due to gasket failure RPI 3/28/03

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 3-28-03 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 3-28-03 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 3-28-03 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 3-28-03 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.
Bonnet	APN 45060267	3	A180	MR 734246

19. Planner David Goodlet 3-28-03 Printed Name: David Goodlet
Signature Date

20. ISI R P Indap 3/28/03 Printed Name: R. P. INDAP
Signature Date

21. ANII R G Hagstrom 3-28-03 Printed Name: R G. HAGSTROM
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: 3/28/03

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2564303

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Bonnet	Anchor/Darling	3	n/a	1JSGEUV183	1991	Replacement	NO

7. Description of Work: Replace bonnet to correct steam cut caused from pressure seal leak.

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

   Other ☐ Pressure 1625 psi Test Temperature 300 °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)

Remarks: WO# 2564303 for valve 1JSGEUV0183. The valve bonnet was replaced due to steam cuts caused from pressure seal gasket leakage.

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: RLB R.L.BROWNING ISI ENG Date: 3/31/03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-28-03 to 3-31-03, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 3-31-03

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MRCEE01B
2.. Item Description: Steam Generator #2
3. N-5 Data Package Number: 1RC01-4 4. W.O. Number: 2564536
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse plugs in 1MRCEE01B Cold Leg tubes per DFWO 2564535
8. ☒ ISI Flaw NDE Method of Flaw Detection: Eddy Current
Report Number: 1R11 Eddy Current Exam Report
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Per DFWO 2564535

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 1/22/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 1/22/04 17. 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.
Tube Plugs	See Atteched List	See Atteched List	See Atteched List	See Atteched List

18. Planner Barbara Vidal 1/22/04 Printed Name: Barbara Vidal
Signature Date

19. ISI R P Indap 1/30/04 Printed Name: R. P. INDAP
Signature Date

20. ANII [signature] 1-30-04 Printed Name: R.G. HOOSTRON
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: 1/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2564536

3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*	2004	Replacement	NO

7. Description of Work: SG12 Cold Leg plugging and repair per DFWO 2564535. * See attached list.

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.

FORM NIS-2 (Back)

9. Remarks: See DFWO 2564535 for tubes plugged. (Plugging list attached)

W.O. 25644536

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: R Ford, Consulting Metallurgical Engineer Date: 5-3-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 1-30-04 to 5-3-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R L Hylton
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-3-04

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

ASME SECTION XI-REPAIR/REPLACEMENT						
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
1MRCEE01B	17	4	1971E18	1M889	NX3171HK	850392
1MRCEE01B	46	5	0307-1601	40013388-92	NX3171HK	733382
1MRCEE01B	5	6	0307-1601	40013388-95	NX3171HK	733382
1MRCEE01B	27	6	1971E18	1P046	NX3188HK	850392
1MRCEE01B	33	6	1971E18	1M888	NX3171HK	850392
1MRCEE01B	47	6	0307-1601	40013388-96	NX3171HK	733382
1MRCEE01B	49	6	0307-1601	40013388-94	NX3171HK	733382
1MRCEE01B	24	7	1971E18	1P047	NX3188HK	850392
1MRCEE01B	21	8	1971E18	1P039	NX3188HK	850392
1MRCEE01B	58	9	1971E18	1M985	NX3171HK	850392
1MRCEE01B	23	10	1971E18	1P049	NX3188HK	850392
1MRCEE01B	33	10	1971E18	1P051	NX3188HK	850392
1MRCEE01B	16	11	1971E18	1P044	NX3188HK	850392
1MRCEE01B	58	11	1971E18	1M984	NX3171HK	850392
1MRCEE01B	19	12	1971E18	1P043	NX3188HK	850392
1MRCEE01B	21	12	1971E18	1P040	NX3188HK	850392
1MRCEE01B	49	12	1971E18	1M882	NX3171HK	850392
1MRCEE01B	51	12	1971E18	1P098	NX3188HK	850392
1MRCEE01B	55	12	1971E18	1P095	NX3188HK	850392
1MRCEE01B	48	13	1971E18	1M890	NX3171HK	850392
1MRCEE01B	45	14	1971E18	1P082	NX3188HK	850392
1MRCEE01B	58	15	1971E18	1M982	NX3171HK	850392
1MRCEE01B	45	16	1971E18	1P094	NX3188HK	850392
1MRCEE01B	47	16	1971E18	1P083	NX3188HK	850392
1MRCEE01B	61	16	0307-1601	40013388-82	NX3171HK	733382
1MRCEE01B	58	17	1971E18	1M994	NX3171HK	850392
1MRCEE01B	43	18	1971E18	1P092	NX3188HK	850392
1MRCEE01B	59	18	1971E18	1M885	NX3171HK	850392
1MRCEE01B	48	19	1971E18	1P097	NX3188HK	850392
1MRCEE01B	58	21	1971E18	1M986	NX3171HK	850392
1MRCEE01B	53	22	1971E18	1M881	NX3171HK	850392
1MRCEE01B	48	23	1971E18	1P079	NX3188HK	850392
1MRCEE01B	90	23	1971E18	1M983	NX3171HK	850392
1MRCEE01B	43	24	1971E18	1M883	NX3171HK	850392
1MRCEE01B	55	24	1971E18	1M886	NX3171HK	850392
1MRCEE01B	79	24	1971E18	1M981	NX3171HK	850392
1MRCEE01B	60	25	1971E18	1M980	NX3171HK	850392
1MRCEE01B	17	26	1971E18	1P088	NX3188HK	850392
1MRCEE01B	33	26	1971E18	1P089	NX3188HK	850392
1MRCEE01B	45	26	1971E18	1P086	NX3188HK	850392
1MRCEE01B	36	27	0307-1601	40013388-86	NX3171HK	733382
1MRCEE01B	58	27	1971E18	1M989	NX3171HK	850392

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: 1/31/2004
P.O. Box 53999, Phoenix Arizona 85072-2034 Sheet 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78775-2	22509	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	69	28	1971E18	1M880	NX3171HK	850392
1MRCEE01B	12	31	1971E18	1M884	NX3171HK	850392
1MRCEE01B	48	31	1971E18	1P085	NX3188HK	850392
1MRCEE01B	47	32	1971E18	1P090	NX3188HK	850392
1MRCEE01B	108	33	1971E18	1M996	NX3171HK	850392
1MRCEE01B	114	33	1971E18	1N124	NX3171HK	850392
1MRCEE01B	6	35	1971E18	1P093	NX3188HK	850392
1MRCEE01B	57	36	1971E18	1M990	NX3171HK	850392
1MRCEE01B	119	36	1971E18	1N122	NX3171HK	850392
1MRCEE01B	60	37	1971E18	1M896	NX3171HK	850392
1MRCEE01B	116	37	1971E18	1N123	NX3171HK	850392
1MRCEE01B	120	37	1971E18	1N121	NX3171HK	850392
1MRCEE01B	27	38	1971E18	1P087	NX3188HK	850392
1MRCEE01B	49	38	1971E18	1M987	NX3171HK	850392
1MRCEE01B	53	38	1971E18	1M977	NX3171HK	850392
1MRCEE01B	87	38	1971E18	1M978	NX3171HK	850392
1MRCEE01B	109	38	1971E18	1N127	NX3171HK	850392
1MRCEE01B	104	39	1971E18	1N129	NX3171HK	850392
1MRCEE01B	71	40	0307-1601	40013388-83	NX3171HK	733382
1MRCEE01B	79	40	1971E18	1M993	NX3171HK	850392
1MRCEE01B	91	40	1971E18	1M829	NX3171HK	850392
1MRCEE01B	60	41	0307-1601	40013388-91	NX3171HK	733382
1MRCEE01B	80	41	1971E18	1M979	NX3171HK	850392
1MRCEE01B	112	41	1971E18	1M825	NX3171HK	850392
1MRCEE01B	41	42	1971E18	1P080	NX3188HK	850392
1MRCEE01B	115	42	1971E18	1N126	NX3171HK	850392
1MRCEE01B	16	43	1971E18	1M817	NX3171HK	850392
1MRCEE01B	106	43	1971E18	1N128	NX3171HK	850392
1MRCEE01B	101	44	1971E18	1M828	NX3171HK	850392
1MRCEE01B	121	44	1971E18	1N120	NX3171HK	850392
1MRCEE01B	60	45	1971E18	1N146	NX3171HK	850392
1MRCEE01B	80	45	1971E18	1M826	NX3171HK	850392
1MRCEE01B	90	45	1971E18	1N154	NX3171HK	850392
1MRCEE01B	132	45	1971E18	1N118	NX3171HK	850392
1MRCEE01B	134	45	0307-1601	40013388-76	NX3171HK	733382
1MRCEE01B	97	46	0307-1601	40013388-89	NX3171HK	733382
1MRCEE01B	115	46	1971E18	1N125	NX3171HK	850392
1MRCEE01B	24	47	1971E18	1M820	NX3171HK	850392
1MRCEE01B	53	48	1971E18	1M992	NX3171HK	850392
1MRCEE01B	95	48	1971E18	1N143	NX3171HK	850392
1MRCEE01B	32	49	1971E18	1M824	NX3171HK	850392
1MRCEE01B	54	49	1971E18	1M991	NX3171HK	850392
1MRCEE01B	138	49	0307-1601	40013388-88	NX3171HK	733382
1MRCEE01B	51	50	1971E18	1M988	NX3171HK	850392

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78773-3	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	137	50	1971E18	1N137	NX3171HK	850392
1MRCEE01B	78	51	1971E18	1M833	NX3171HK	850392
1MRCEE01B	90	51	1971E18	1N155	NX3171HK	850392
1MRCEE01B	98	51	1971E18	1N157	NX3171HK	850392
1MRCEE01B	122	51	0307-1601	40013388-90	NX3171HK	733382
1MRCEE01B	39	52	1971E18	1M836	NX3171HK	850392
1MRCEE01B	43	52	1971E18	1N177	NX3171HK	850392
1MRCEE01B	45	52	1971E18	1M835	NX3171HK	850392
1MRCEE01B	53	52	1971E18	1M995	NX3171HK	850392
1MRCEE01B	58	53	0307-1601	40013388-97	NX3171HK	733382
1MRCEE01B	60	53	1971E18	1N149	NX3171HK	850392
1MRCEE01B	98	53	1971E18	1N145	NX3171HK	850392
1MRCEE01B	110	53	1971E18	1M832	NX3171HK	850392
1MRCEE01B	124	53	1971E18	1M831	NX3171HK	850392
1MRCEE01B	140	53	1971E18	1N134	NX3171HK	850392
1MRCEE01B	33	54	1971E18	1N163	NX3171HK	850392
1MRCEE01B	39	54	1971E18	1M827	NX3171HK	850392
1MRCEE01B	137	54	1971E18	1N133	NX3171HK	850392
1MRCEE01B	90	55	1971E18	1M823	NX3171HK	850392
1MRCEE01B	98	55	1971E18	1N141	NX3171HK	850392
1MRCEE01B	102	55	1971E18	1M834	NX3171HK	850392
1MRCEE01B	104	55	1971E18	1M830	NX3171HK	850392
1MRCEE01B	120	55	1971E18	1N148	NX3171HK	850392
1MRCEE01B	136	55	1971E18	1N130	NX3171HK	850392
1MRCEE01B	138	55	1971E18	1N131	NX3171HK	850392
1MRCEE01B	140	55	1971E18	1N132	NX3171HK	850392
1MRCEE01B	105	56	1971E18	1N151	NX3171HK	850392
1MRCEE01B	121	56	1971E18	1N119	NX3171HK	850392
1MRCEE01B	135	56	1971E18	1N136	NX3171HK	850392
1MRCEE01B	137	56	1971E18	1N135	NX3171HK	850392
1MRCEE01B	132	57	0307-1601	40013388-98	NX3171HK	733382
1MRCEE01B	47	58	1971E18	1N171	NX3171HK	850392
1MRCEE01B	53	58	1971E18	1N168	NX3171HK	850392
1MRCEE01B	57	58	1971E18	1N144	NX3171HK	850392
1MRCEE01B	81	58	1971E18	1N147	NX3171HK	850392
1MRCEE01B	107	58	1971E18	1N140	NX3171HK	850392
1MRCEE01B	113	58	1971E18	1N152	NX3171HK	850392
1MRCEE01B	30	59	1971E18	1M818	NX3171HK	850392
1MRCEE01B	92	59	1971E18	1M819	NX3171HK	850392
1MRCEE01B	112	59	1971E18	1M822	NX3171HK	850392
1MRCEE01B	124	59	1971E18	1N190	NX3171HK	850392
1MRCEE01B	132	59	1971E18	1N182	NX3171HK	850392
1MRCEE01B	67	60	1971E18	1N156	NX3171HK	850392
1MRCEE01B	123	60	1971E18	1N196	NX3171HK	850392

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78773-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	129	60	1971E18	1N197	NX3171HK	850392
1MRCEE01B	133	60	1971E18	1N179	NX3171HK	850392
1MRCEE01B	24	61	1971E18	1M879	NX3171HK	850392
1MRCEE01B	52	61	1971E18	1M895	NX3171HK	850392
1MRCEE01B	130	61	1971E18	1M821	NX3171HK	850392
1MRCEE01B	97	62	1971E18	1N153	NX3171HK	850392
1MRCEE01B	115	62	1971E18	1M891	NX3171HK	850392
1MRCEE01B	129	62	1971E18	1N184	NX3171HK	850392
1MRCEE01B	133	62	1971E18	1N185	NX3171HK	850392
1MRCEE01B	137	62	1971E18	1N194	NX3171HK	850392
1MRCEE01B	141	62	1971E18	1N193	NX3171HK	850392
1MRCEE01B	94	63	1971E18	1N879	NX3188HK	850392
1MRCEE01B	118	63	1971E18	1N192	NX3171HK	850392
1MRCEE01B	124	63	1971E18	1N180	NX3171HK	850392
1MRCEE01B	71	64	1971E18	1N150	NX3171HK	850392
1MRCEE01B	113	64	1971E18	1N169	NX3171HK	850392
1MRCEE01B	115	64	1971E18	1N164	NX3171HK	850392
1MRCEE01B	95	66	1971E18	1N142	NX3171HK	850392
1MRCEE01B	74	67	1971E18	1N874	NX3188HK	850392
1MRCEE01B	122	67	1971E18	1N195	NX3171HK	850392
1MRCEE01B	132	67	0307-1601	40013388-93	NX3171HK	733382
1MRCEE01B	138	67	1971E18	1N187	NX3171HK	850392
1MRCEE01B	113	68	1971E18	1N170	NX3171HK	850392
1MRCEE01B	123	68	1971E18	1N181	NX3171HK	850392
1MRCEE01B	139	68	0307-1601	40013388-84	NX3171HK	733382
1MRCEE01B	92	69	1971E18	1N882	NX3188HK	850392
1MRCEE01B	113	70	1971E18	1M893	NX3171HK	850392
1MRCEE01B	110	71	1971E18	1M892	NX3171HK	850392
1MRCEE01B	112	71	1971E18	1N165	NX3171HK	850392
1MRCEE01B	128	71	0307-1601	40013388-85	NX3171HK	733382
1MRCEE01B	142	71	1971E18	1P050	NX3188HK	850392
1MRCEE01B	144	71	1971E18	1P042	NX3188HK	850392
1MRCEE01B	17	72	1971E18	1M878	NX3171HK	850392
1MRCEE01B	40	73	1971E18	1M887	NX3171HK	850392
1MRCEE01B	64	73	1971E18	1M894	NX3171HK	850392
1MRCEE01B	80	73	1971E18	1N886	NX3188HK	850392
1MRCEE01B	96	73	1971E18	1N138	NX3171HK	850392
1MRCEE01B	116	73	1971E18	1N173	NX3171HK	850392
1MRCEE01B	138	73	1971E18	1P048	NX3188HK	850392
1MRCEE01B	39	74	1971E18	1M877	NX3171HK	850392
1MRCEE01B	111	74	1971E18	1N887	NX3188HK	850392
1MRCEE01B	129	74	1971E18	1N191	NX3171HK	850392
1MRCEE01B	30	75	1971E18	1N176	NX3171HK	850392
1MRCEE01B	90	75	1971E18	1N139	NX3171HK	850392

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: 1/21/2004
P. O. Box 52999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78773-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	102	75	1971E18	1N894	NX3188HK	850392
1MRCEE01B	104	75	1971E18	1N891	NX3188HK	850392
1MRCEE01B	128	75	1971E18	1N178	NX3171HK	850392
1MRCEE01B	144	75	1971E18	1P041	NX3188HK	850392
1MRCEE01B	91	76	1971E18	1N892	NX3188HK	850392
1MRCEE01B	138	77	1971E18	1N189	NX3171HK	850392
1MRCEE01B	117	78	1971E18	1N883	NX3188HK	850392
1MRCEE01B	137	78	1971E18	1N183	NX3171HK	850392
1MRCEE01B	50	79	1971E18	1N889	NX3188HK	850392
1MRCEE01B	52	79	1971E18	1N885	NX3188HK	850392
1MRCEE01B	70	79	1971E18	1N166	NX3171HK	850392
1MRCEE01B	156	79	0307-1601	40013388-77	NX3171HK	733382
1MRCEE01B	93	80	1971E18	1N888	NX3188HK	850392
1MRCEE01B	94	81	1971E18	1N881	NX3188HK	850392
1MRCEE01B	98	81	1971E18	1N884	NX3188HK	850392
1MRCEE01B	104	81	1971E18	1N878	NX3188HK	850392
1MRCEE01B	110	81	1971E18	1N890	NX3188HK	850392
1MRCEE01B	130	81	1971E18	1N188	NX3171HK	850392
1MRCEE01B	146	81	1971E18	1N959	NX3188HK	850392
1MRCEE01B	51	82	0307-1601	40013388-78	NX3171HK	733382
1MRCEE01B	69	82	1971E18	1N873	NX3188HK	850392
1MRCEE01B	71	82	1971E18	1N870	NX3188HK	850392
1MRCEE01B	85	82	1971E18	1N863	NX3188HK	850392
1MRCEE01B	103	82	1971E18	1N172	NX3171HK	850392
1MRCEE01B	131	82	1971E18	1N186	NX3171HK	850392
1MRCEE01B	143	84	1971E18	1N973	NX3188HK	850392
1MRCEE01B	58	85	1971E18	1N896	NX3188HK	850392
1MRCEE01B	80	85	1971E18	1N859	NX3188HK	850392
1MRCEE01B	142	85	1971E18	1N969	NX3188HK	850392
1MRCEE01B	95	86	1971E18	1N175	NX3171HK	850392
1MRCEE01B	52	87	1971E18	1N897	NX3188HK	850392
1MRCEE01B	68	87	1971E18	1N875	NX3188HK	850392
1MRCEE01B	78	87	1971E18	1N865	NX3188HK	850392
1MRCEE01B	98	87	1971E18	1N162	NX3171HK	850392
1MRCEE01B	110	87	1971E18	1N880	NX3188HK	850392
1MRCEE01B	138	87	1971E18	1N975	NX3188HK	850392
1MRCEE01B	59	88	1971E18	1N868	NX3188HK	850392
1MRCEE01B	65	88	1971E18	1N871	NX3188HK	850392
1MRCEE01B	87	88	1971E18	1N159	NX3171HK	850392
1MRCEE01B	135	88	0307-1601	40013388-101	NX3171HK	733382
1MRCEE01B	143	88	1971E18	1N962	NX3188HK	850392
1MRCEE01B	102	89	0307-1601	40013388-102	NX3171HK	733382
1MRCEE01B	104	89	1971E18	1N893	NX3188HK	850392
1MRCEE01B	148	89	1971E18	1N977	NX3188HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-2034 — Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station — Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 — Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse — Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1: 1971 Edition, Winter 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	76775 2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	133	90	1971E18	1N028	NX3171HK	850392
1MRCEE01B	140	91	1971E18	1N958	NX3188HK	850392
1MRCEE01B	146	91	1971E18	1N976	NX3188HK	850392
1MRCEE01B	76	93	1971E18	1N174	NX3171HK	850392
1MRCEE01B	98	93	1971E18	1N895	NX3188HK	850392
1MRCEE01B	40	95	1971E18	1P053	NX3188HK	850392
1MRCEE01B	88	95	1971E18	1N161	NX3171HK	850392
1MRCEE01B	104	95	1971E18	1N158	NX3171HK	850392
1MRCEE01B	124	95	1971E18	1N970	NX3188HK	850392
1MRCEE01B	91	96	1971E18	1N167	NX3171HK	850392
1MRCEE01B	116	97	1971E18	1N966	NX3188HK	850392
1MRCEE01B	95	98	1971E18	1N160	NX3171HK	850392
1MRCEE01B	144	101	1971E18	1N972	NX3188HK	850392
1MRCEE01B	131	102	1971E18	1N963	NX3188HK	850392
1MRCEE01B	110	103	1971E18	1N952	NX3188HK	850392
1MRCEE01B	120	103	1971E18	1N965	NX3188HK	850392
1MRCEE01B	146	103	1971E18	1N968	NX3188HK	850392
1MRCEE01B	148	103	1971E18	1N971	NX3188HK	850392
1MRCEE01B	35	104	0307-1601	40013388-103	NX3171HK	733382
1MRCEE01B	80	105	1971E18	1N877	NX3188HK	850392
1MRCEE01B	101	106	1971E18	1N945	NX3188HK	850392
1MRCEE01B	32	107	0307-1601	40013388-100	NX3171HK	733382
1MRCEE01B	74	107	1971E18	1N869	NX3188HK	850392
1MRCEE01B	85	108	1971E18	1P084	NX3188HK	850392
1MRCEE01B	96	109	1971E18	1N956	NX3188HK	850392
1MRCEE01B	128	109	1971E18	1N974	NX3188HK	850392
1MRCEE01B	111	110	1971E18	1N946	NX3188HK	850392
1MRCEE01B	117	110	1971E18	1N944	NX3188HK	850392
1MRCEE01B	125	110	1971E18	1N964	NX3188HK	850392
1MRCEE01B	56	111	1971E18	1N860	NX3188HK	850392
1MRCEE01B	62	111	1971E18	1P081	NX3188HK	850392
1MRCEE01B	96	111	1971E18	1N037	NX3171HK	850392
1MRCEE01B	104	111	1971E18	1N950	NX3188HK	850392
1MRCEE01B	138	111	1971E18	1N960	NX3188HK	850392
1MRCEE01B	148	111	1971E18	1N967	NX3188HK	850392
1MRCEE01B	65	112	1971E18	1N876	NX3188HK	850392
1MRCEE01B	98	113	1971E18	1N938	NX3188HK	850392
1MRCEE01B	118	113	1971E18	1N947	NX3188HK	850392
1MRCEE01B	140	113	1971E18	1N942	NX3188HK	850392
1MRCEE01B	56	115	1971E18	1N858	NX3188HK	850392
1MRCEE01B	47	116	1971E18	1N861	NX3188HK	850392
1MRCEE01B	117	116	1971E18	1N957	NX3188HK	850392
1MRCEE01B	96	117	1971E18	1N954	NX3188HK	850392
1MRCEE01B	17	118	1971E18	1N043	NX3171HK	850392

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78773-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	58	119	1971E18	1N867	NX3188HK	850392
1MRCEE01B	27	120	1971E18	1P012	NX3188HK	850392
1MRCEE01B	39	120	1971E18	1N872	NX3188HK	850392
1MRCEE01B	47	120	1971E18	1N862	NX3188HK	850392
1MRCEE01B	71	120	1971E18	1N023	NX3171HK	850392
1MRCEE01B	106	121	1971E18	1N021	NX3171HK	850392
1MRCEE01B	108	121	1971E18	1N961	NX3188HK	850392
1MRCEE01B	7	122	1971E18	1P008	NX3188HK	850392
1MRCEE01B	47	122	1971E18	1N864	NX3188HK	850392
1MRCEE01B	97	122	1971E18	1N031	NX3171HK	850392
1MRCEE01B	105	122	1971E18	1N033	NX3171HK	850392
1MRCEE01B	22	123	1971E18	1N022	NX3171HK	850392
1MRCEE01B	132	123	1971E18	1N948	NX3188HK	850392
1MRCEE01B	138	123	1971E18	1N941	NX3188HK	850392
1MRCEE01B	148	123	0307-1601	40013388-87	NX3171HK	733382
1MRCEE01B	49	124	1971E18	1N866	NX3188HK	850392
1MRCEE01B	71	124	1971E18	1P096	NX3188HK	850392
1MRCEE01B	114	125	1971E18	1N999	NX3188HK	850392
1MRCEE01B	138	125	1971E18	1N955	NX3188HK	850392
1MRCEE01B	140	125	1971E18	1N953	NX3188HK	850392
1MRCEE01B	101	126	1971E18	1N943	NX3188HK	850392
1MRCEE01B	117	126	1971E18	1N940	NX3188HK	850392
1MRCEE01B	96	127	1971E18	1N951	NX3188HK	850392
1MRCEE01B	136	127	1971E18	1N939	NX3188HK	850392
1MRCEE01B	57	128	1971E18	1N029	NX3171HK	850392
1MRCEE01B	63	128	1971E18	1N035	NX3171HK	850392
1MRCEE01B	115	128	1971E18	1P014	NX3188HK	850392
1MRCEE01B	56	129	1971E18	1N019	NX3171HK	850392
1MRCEE01B	25	130	1971E18	1N026	NX3171HK	850392
1MRCEE01B	115	130	1971E18	1P013	NX3188HK	850392
1MRCEE01B	10	131	1971E18	1N025	NX3171HK	850392
1MRCEE01B	78	131	1971E18	1N032	NX3171HK	850392
1MRCEE01B	102	133	1971E18	1N949	NX3188HK	850392
1MRCEE01B	55	134	1971E18	1N027	NX3171HK	850392
1MRCEE01B	69	134	1971E18	1N020	NX3171HK	850392
1MRCEE01B	58	135	1971E18	1P091	NX3188HK	850392
1MRCEE01B	92	137	1971E18	1P001	NX3188HK	850392
1MRCEE01B	94	137	1971E18	1N038	NX3171HK	850392
1MRCEE01B	122	137	1971E18	1N046	NX3171HK	850392
1MRCEE01B	33	138	1971E18	1N041	NX3171HK	850392
1MRCEE01B	55	138	1971E18	1N052	NX3171HK	850392
1MRCEE01B	30	139	1971E18	1N051	NX3171HK	850392
1MRCEE01B	132	139	1971E18	1P009	NX3188HK	850392
1MRCEE01B	38	141	1971E18	1N018	NX3171HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78773-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"COLD LEG"

WORK ORDER 2564535

WORK ORDER 2564536

1MRCEE01B	60	141	1971E18	1N053	NX3171HK	850392
1MRCEE01B	86	141	1971E18	1P015	NX3188HK	850392
1MRCEE01B	122	141	1971E18	1P010	NX3188HK	850392
1MRCEE01B	53	142	1971E18	1N049	NX3171HK	850392
1MRCEE01B	69	142	1971E18	1N057	NX3171HK	850392
1MRCEE01B	34	143	1971E18	1N036	NX3171HK	850392
1MRCEE01B	105	144	1971E18	1P003	NX3188HK	850392
1MRCEE01B	98	145	1971E18	1P018	NX3188HK	850392
1MRCEE01B	106	145	1971E18	1P007	NX3188HK	850392
1MRCEE01B	63	146	1971E18	1N045	NX3171HK	850392
1MRCEE01B	132	147	0307-1601	40013388-80	NX3171HK	733382
1MRCEE01B	102	149	1971E18	1P006	NX3188HK	850392
1MRCEE01B	110	149	1971E18	1P004	NX3188HK	850392
1MRCEE01B	55	150	1971E18	1N050	NX3171HK	850392
1MRCEE01B	95	150	1971E18	1P005	NX3188HK	850392
1MRCEE01B	42	151	1971E18	1N024	NX3171HK	850392
1MRCEE01B	82	151	1971E18	1P016	NX3188HK	850392
1MRCEE01B	84	151	1971E18	1N998	NX3188HK	850392
1MRCEE01B	66	153	1971E18	1N042	NX3171HK	850392
1MRCEE01B	28	155	1971E18	1N030	NX3171HK	850392
1MRCEE01B	84	155	1971E18	1N056	NX3171HK	850392
1MRCEE01B	30	157	1971E18	1N034	NX3171HK	850392
1MRCEE01B	84	157	1971E18	1P017	NX3188HK	850392
1MRCEE01B	60	163	1971E18	1N047	NX3171HK	850392
1MRCEE01B	92	163	1971E18	1P011	NX3188HK	850392
1MRCEE01B	59	164	1971E18	1N039	NX3171HK	850392
1MRCEE01B	83	168	1971E18	1P002	NX3188HK	850392
1MRCEE01B	58	171	1971E18	1N054	NX3171HK	850392
1MRCEE01B	61	172	1971E18	1N040	NX3171HK	850392
1MRCEE01B	61	174	1971E18	1N055	NX3171HK	850392
1MRCEE01B	58	175	1971E18	1N048	NX3171HK	850392
1MRCEE01B	8	177	1971E18	1P045	NX3188HK	850392
1MRCEE01B	53	182	1971E18	1N044	NX3171HK	850392
1MRCEE01B	35	186	0307-1601	40013388-99	NX3171HK	733382
1MRCEE01B	21	188	0307-1601	40013388-81	NX3171HK	733382

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 — Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station — Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 — Work Order Number: 2564536
3. Work Performed by: Arizona Public Service/Westinghouse — Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1: 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78773-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MRCEE01B
2.. Item Description: Steam Generator #2
3. N-5 Data Package Number: 1RC01-4 4. W.O. Number: 2564537
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse plugs in 1MRCEE01B Hot Leg tubes per DFWO 2564534
8. ☒ ISI Flaw NDE Method of Flaw Detection: Eddy Current
Report Number: 1R11 Eddy Current Exam Report
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Per DFWO 2564534

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 1/22/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 1/22/04 17. 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.
Tube Plugs	See Atteched List	See Atteched List	See Atteched List	See Atteched List

18. Planner Barbara Vidal 1/22/04 Printed Name: Barbara Vidal
Signature Date

19. ISI R P Indap 1/30/04 Printed Name: R.P. INDAP
Signature Date

20. ANII R G Hogstrom 1-30-04 Printed Name: R.G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 1/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2564537

3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*	2004	Replacement	NO

7. Description of Work: SG12 Hot Leg plugging and repair per DFWO 2564534. * See attached list.

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.

FORM NIS-2 (Back)

9. Remarks: See DFWO 2564534 for tubes plugged. (Plugging list attached)

W.O. 2564537

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: RPMdap Consulting Metallurgical Engineer Date: 5-3-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 1-30-04 to 5-3-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-3-04

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

ASME SECTION XI-REPAIR/REPLACEMENT						
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
1MRCEE01B	17	4	1971E18	1M963	NX3171HK	850392
1MRCEE01B	46	5	1971E18	1M931	NX3171HK	850392
1MRCEE01B	5	6	1971E18	1M968	NX3171HK	850392
1MRCEE01B	27	6	1971E18	1M918	NX3171HK	850392
1MRCEE01B	33	6	1971E18	1M927	NX3171HK	850392
1MRCEE01B	47	6	1971E18	1M925	NX3171HK	850392
1MRCEE01B	49	6	1971E18	1M933	NX3171HK	850392
1MRCEE01B	24	7	1971E18	1M928	NX3171HK	850392
1MRCEE01B	21	8	1971E18	1M922	NX3171HK	850392
1MRCEE01B	58	9	1971E18	1M919	NX3171HK	850392
1MRCEE01B	23	10	1971E18	1M966	NX3171HK	850392
1MRCEE01B	33	10	1971E18	1M923	NX3171HK	850392
1MRCEE01B	16	11	1971E18	1M967	NX3171HK	850392
1MRCEE01B	58	11	1971E18	1M924	NX3171HK	850392
1MRCEE01B	19	12	1971E18	1M958	NX3171HK	850392
1MRCEE01B	21	12	1971E18	1M969	NX3171HK	850392
1MRCEE01B	49	12	034-01	ECEW-67	J-9161-5	533616
1MRCEE01B	51	12	1971E18	1M917	NX3171HK	850392
1MRCEE01B	55	12	1971E18	1M932	NX3171HK	850392
1MRCEE01B	48	13	1971E18	1M936	NX3171HK	850392
1MRCEE01B	45	14	1971E18	1M921	NX3171HK	850392
1MRCEE01B	58	15	1971E18	1M929	NX3171HK	850392
1MRCEE01B	45	16	1971E18	1M930	NX3171HK	850392
1MRCEE01B	47	16	1971E18	1M934	NX3171HK	850392
1MRCEE01B	61	16	1971E18	1N259	NX3171HK	850392
1MRCEE01B	58	17	1971E18	1M935	NX3171HK	850392
1MRCEE01B	43	18	1971E18	1M920	NX3171HK	850392
1MRCEE01B	59	18	1971E18	1N265	NX3171HK	850392
1MRCEE01B	48	19	1971E18	1N254	NX3171HK	850392
1MRCEE01B	58	21	1971E18	1M926	NX3171HK	850392
1MRCEE01B	53	22	1971E18	1N274	NX3171HK	850392
1MRCEE01B	48	23	1971E18	1N253	NX3171HK	850392
1MRCEE01B	90	23	1971E18	1N273	NX3171HK	850392
1MRCEE01B	43	24	1971E18	1N250	NX3171HK	850392
1MRCEE01B	55	24	1971E18	1N270	NX3171HK	850392
1MRCEE01B	79	24	1971E18	1N266	NX3171HK	850392
1MRCEE01B	60	25	1971E18	1N275	NX3171HK	850392
1MRCEE01B	17	26	1971E18	1M964	NX3171HK	850392
1MRCEE01B	33	26	1971E18	1N242	NX3171HK	850392
1MRCEE01B	45	26	1971E18	1N248	NX3171HK	850392
1MRCEE01B	36	27	1971E18	1N256	NX3171HK	850392
1MRCEE01B	58	27	1971E18	1N261	NX3171HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3934 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78773 3	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	"	N/A	"		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	69	28	1971E18	1N272	NX3171HK	850392
1MRCEE01B	12	31	1971E18	1N246	NX3171HK	850392
1MRCEE01B	48	31	1971E18	1N252	NX3171HK	850392
1MRCEE01B	47	32	1971E18	1N257	NX3171HK	850392
1MRCEE01B	108	33	1971E18	1P060	NX3188HK	850392
1MRCEE01B	114	33	1971E18	1N222	NX3171HK	850392
1MRCEE01B	6	35	1971E18	1N239	NX3171HK	850392
1MRCEE01B	57	36	1971E18	1N298	NX3171HK	850392
1MRCEE01B	119	36	1971E18	1N223	NX3171HK	850392
1MRCEE01B	60	37	1971E18	1N263	NX3171HK	850392
1MRCEE01B	116	37	1971E18	1N225	NX3171HK	850392
1MRCEE01B	120	37	1971E18	1N224	NX3171HK	850392
1MRCEE01B	27	38	1971E18	1N245	NX3171HK	850392
1MRCEE01B	49	38	0307-1601	40013388-131	NX3171HK	733382
1MRCEE01B	53	38	1971E18	1N310	NX3171HK	850392
1MRCEE01B	87	38	1971E18	1N267	NX3171HK	850392
1MRCEE01B	109	38	1971E18	1P072	NX3188HK	850392
1MRCEE01B	104	39	1971E18	1P066	NX3188HK	850392
1MRCEE01B	71	40	1971E18	1N277	NX3171HK	850392
1MRCEE01B	79	40	1971E18	1N260	NX3171HK	850392
1MRCEE01B	91	40	1971E18	1N276	NX3171HK	850392
1MRCEE01B	60	41	1971E18	1N317	NX3171HK	850392
1MRCEE01B	80	41	1971E18	1N271	NX3171HK	850392
1MRCEE01B	112	41	1971E18	1P071	NX3188HK	850392
1MRCEE01B	41	42	1971E18	1N299	NX3171HK	850392
1MRCEE01B	115	42	1971E18	1P070	NX3188HK	850392
1MRCEE01B	16	43	1971E18	1N240	NX3171HK	850392
1MRCEE01B	106	43	1971E18	1P065	NX3188HK	850392
1MRCEE01B	101	44	1971E18	1P067	NX3188HK	850392
1MRCEE01B	121	44	1971E18	1P064	NX3188HK	850392
1MRCEE01B	60	45	1971E18	1N302	NX3171HK	850392
1MRCEE01B	80	45	1971E18	1N258	NX3171HK	850392
1MRCEE01B	90	45	1971E18	1N262	NX3171HK	850392
1MRCEE01B	132	45	1971E18	1N219	NX3171HK	850392
1MRCEE01B	134	45	1971E18	1N218	NX3171HK	850392
1MRCEE01B	97	46	1971E18	1P068	NX3188HK	850392
1MRCEE01B	115	46	1971E18	1P063	NX3188HK	850392
1MRCEE01B	24	47	1971E18	1N244	NX3171HK	850392
1MRCEE01B	53	48	1971E18	1N308	NX3171HK	850392
1MRCEE01B	95	48	1971E18	1P078	NX3188HK	850392
1MRCEE01B	32	49	1971E18	1N316	NX3171HK	850392
1MRCEE01B	54	49	1971E18	1N307	NX3171HK	850392
1MRCEE01B	138	49	1971E18	1N220	NX3171HK	850392
1MRCEE01B	51	50	1971E18	1N303	NX3171HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3034 Sheet: 1 of 1
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NP, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273 2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	137	50	1971E18	1N221	NX3171HK	850392
1MRCEE01B	78	51	1971E18	1N269	NX3171HK	850392
1MRCEE01B	90	51	1971E18	1P077	NX3188HK	850392
1MRCEE01B	98	51	1971E18	1P076	NX3188HK	850392
1MRCEE01B	122	51	1971E18	1M859	NX3171HK	850392
1MRCEE01B	39	52	1971E18	1N309	NX3171HK	850392
1MRCEE01B	43	52	1971E18	1N301	NX3171HK	850392
1MRCEE01B	45	52	1971E18	1N306	NX3171HK	850392
1MRCEE01B	53	52	1971E18	1N313	NX3171HK	850392
1MRCEE01B	58	53	1971E18	1N300	NX3171HK	850392
1MRCEE01B	60	53	1971E18	1N312	NX3171HK	850392
1MRCEE01B	98	53	1971E18	1P075	NX3188HK	850392
1MRCEE01B	110	53	1971E18	1M874	NX3171HK	850392
1MRCEE01B	124	53	1971E18	1N806	NX3188HK	850392
1MRCEE01B	140	53	1971E18	1N736	NX3188HK	850392
1MRCEE01B	33	54	1971E18	1N314	NX3171HK	850392
1MRCEE01B	39	54	1971E18	1N315	NX3171HK	850392
1MRCEE01B	137	54	1971E18	1N726	NX3188HK	850392
1MRCEE01B	90	55	1971E18	1N264	NX3171HK	850392
1MRCEE01B	98	55	1971E18	1N799	NX3188HK	850392
1MRCEE01B	102	55	1971E18	1M864	NX3171HK	850392
1MRCEE01B	104	55	1971E18	1M862	NX3171HK	850392
1MRCEE01B	120	55	1971E18	1P073	NX3188HK	850392
1MRCEE01B	136	55	1971E18	1N718	NX3188HK	850392
1MRCEE01B	138	55	1971E18	1N731	NX3188HK	850392
1MRCEE01B	140	55	1971E18	1N733	NX3188HK	850392
1MRCEE01B	105	56	1971E18	1N804	NX3188HK	850392
1MRCEE01B	121	56	1971E18	1P074	NX3188HK	850392
1MRCEE01B	135	56	1971E18	1N722	NX3188HK	850392
1MRCEE01B	137	56	1971E18	1N719	NX3188HK	850392
1MRCEE01B	132	57	1971E18	1N233	NX3171HK	850392
1MRCEE01B	47	58	1971E18	1N311	NX3171HK	850392
1MRCEE01B	53	58	1971E18	1N304	NX3171HK	850392
1MRCEE01B	57	58	1971E18	1N305	NX3171HK	850392
1MRCEE01B	81	58	1971E18	1N268	NX3171HK	850392
1MRCEE01B	107	58	1971E18	1N807	NX3188HK	850392
1MRCEE01B	113	58	1971E18	1N802	NX3188HK	850392
1MRCEE01B	30	59	1971E18	1N251	NX3171HK	850392
1MRCEE01B	92	59	1971E18	1M858	NX3171HK	850392
1MRCEE01B	112	59	1971E18	1M865	NX3171HK	850392
1MRCEE01B	124	59	1971E18	1N728	NX3188HK	850392
1MRCEE01B	132	59	1971E18	1N729	NX3188HK	850392
1MRCEE01B	67	60	1971E18	1M960	NX3171HK	850392
1MRCEE01B	123	60	1971E18	1N724	NX3188HK	850392

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: 8/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78273-2	22500	1MRCEP01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	129	60	1971E18	1N730	NX3188HK	850392
1MRCEE01B	133	60	1971E18	1N737	NX3188HK	850392
1MRCEE01B	24	61	1971E18	1N249	NX3171HK	850392
1MRCEE01B	52	61	1971E18	1N247	NX3171HK	850392
1MRCEE01B	130	61	1971E18	1N809	NX3188HK	850392
1MRCEE01B	97	62	1971E18	1N803	NX3188HK	850392
1MRCEE01B	115	62	1971E18	1M857	NX3171HK	850392
1MRCEE01B	129	62	1971E18	1N721	NX3188HK	850392
1MRCEE01B	133	62	1971E18	1N725	NX3188HK	850392
1MRCEE01B	137	62	1971E18	1N720	NX3188HK	850392
1MRCEE01B	141	62	1971E18	1N732	NX3188HK	850392
1MRCEE01B	94	63	1971E18	1M873	NX3171HK	850392
1MRCEE01B	118	63	1971E18	1N801	NX3188HK	850392
1MRCEE01B	124	63	1971E18	1N723	NX3188HK	850392
1MRCEE01B	71	64	1971E18	1P059	NX3188HK	850392
1MRCEE01B	113	64	1971E18	1N812	NX3188HK	850392
1MRCEE01B	115	64	1971E18	1N815	NX3188HK	850392
1MRCEE01B	95	66	1971E18	1P069	NX3188HK	850392
1MRCEE01B	74	67	1971E18	1M959	NX3171HK	850392
1MRCEE01B	122	67	1971E18	1N734	NX3188HK	850392
1MRCEE01B	132	67	1971E18	1N234	NX3171HK	850392
1MRCEE01B	138	67	1971E18	1N735	NX3188HK	850392
1MRCEE01B	113	68	1971E18	1N808	NX3188HK	850392
1MRCEE01B	123	68	1971E18	1N727	NX3188HK	850392
1MRCEE01B	139	68	1971E18	1N237	NX3171HK	850392
1MRCEE01B	92	69	1971E18	1M869	NX3171HK	850392
1MRCEE01B	113	70	1971E18	1M870	NX3171HK	850392
1MRCEE01B	110	71	1971E18	1M876	NX3171HK	850392
1MRCEE01B	112	71	1971E18	1N800	NX3188HK	850392
1MRCEE01B	128	71	1971E18	1N235	NX3171HK	850392
1MRCEE01B	142	71	1971E18	1N232	NX3171HK	850392
1MRCEE01B	144	71	1971E18	1N230	NX3171HK	850392
1MRCEE01B	17	72	1971E18	1N241	NX3171HK	850392
1MRCEE01B	40	73	1971E18	1N255	NX3171HK	850392
1MRCEE01B	64	73	1971E18	1M974	NX3171HK	850392
1MRCEE01B	80	73	1971E18	1M971	NX3171HK	850392
1MRCEE01B	96	73	1971E18	1P062	NX3188HK	850392
1MRCEE01B	116	73	1971E18	1N810	NX3188HK	850392
1MRCEE01B	138	73	1971E18	1N228	NX3171HK	850392
1MRCEE01B	39	74	1971E18	1N243	NX3171HK	850392
1MRCEE01B	111	74	1971E18	1M860	NX3171HK	850392
1MRCEE01B	129	74	1971E18	1N236	NX3171HK	850392
1MRCEE01B	30	75	1971E18	1N238	NX3171HK	850392
1MRCEE01B	90	75	1971E18	1P061	NX3188HK	850392

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: 1/21/2004
P.O. Box 52999, Phoenix Arizona 85072-2034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5 (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78373-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	102	75	1971E18	1M866	NX3171HK	850392
1MRCEE01B	104	75	1971E18	1M871	NX3171HK	850392
1MRCEE01B	128	75	1971E18	1N285	NX3171HK	850392
1MRCEE01B	144	75	1971E18	1N229	NX3171HK	850392
1MRCEE01B	91	76	1971E18	1M861	NX3171HK	850392
1MRCEE01B	138	77	1971E18	1N227	NX3171HK	850392
1MRCEE01B	117	78	1971E18	1N816	NX3188HK	850392
1MRCEE01B	137	78	1971E18	1N226	NX3171HK	850392
1MRCEE01B	50	79	1971E18	1N664	NX3171HK	850392
1MRCEE01B	52	79	1971E18	1M965	NX3171HK	850392
1MRCEE01B	70	79	1971E18	1M973	NX3171HK	850392
1MRCEE01B	156	79	0307-1601	40013388-129	NX3171HK	733382
1MRCEE01B	93	80	1971E18	1M863	NX3171HK	850392
1MRCEE01B	94	81	1971E18	1M872	NX3171HK	850392
1MRCEE01B	98	81	1971E18	1M875	NX3171HK	850392
1MRCEE01B	104	81	1971E18	1M868	NX3171HK	850392
1MRCEE01B	110	81	1971E18	1M867	NX3171HK	850392
1MRCEE01B	130	81	1971E18	1N284	NX3171HK	850392
1MRCEE01B	146	81	1971E18	1N231	NX3171HK	850392
1MRCEE01B	51	82	1971E18	1N677	NX3171HK	850392
1MRCEE01B	69	82	1971E18	1M975	NX3171HK	850392
1MRCEE01B	71	82	1971E18	1M962	NX3171HK	850392
1MRCEE01B	85	82	1971E18	1N817	NX3188HK	850392
1MRCEE01B	103	82	1971E18	1N673	NX3171HK	850392
1MRCEE01B	131	82	1971E18	1N293	NX3171HK	850392
1MRCEE01B	143	84	1971E18	1N292	NX3171HK	850392
1MRCEE01B	58	85	1971E18	1N668	NX3171HK	850392
1MRCEE01B	80	85	1971E18	1N814	NX3188HK	850392
1MRCEE01B	142	85	1971E18	1N282	NX3171HK	850392
1MRCEE01B	95	86	1971E18	1M972	NX3171HK	850392
1MRCEE01B	52	87	1971E18	1N669	NX3171HK	850392
1MRCEE01B	68	87	1971E18	1M970	NX3171HK	850392
1MRCEE01B	78	87	034-01	ECEW-64	J-9161-5	533616
1MRCEE01B	98	87	1971E18	1M961	NX3171HK	850392
1MRCEE01B	110	87	1971E18	1N646	NX3171HK	850392
1MRCEE01B	138	87	1971E18	1N290	NX3171HK	850392
1MRCEE01B	59	88	1971E18	1N671	NX3171HK	850392
1MRCEE01B	65	88	1971E18	1M976	NX3171HK	850392
1MRCEE01B	87	88	1971E18	1M957	NX3171HK	850392
1MRCEE01B	135	88	1971E18	1N283	NX3171HK	850392
1MRCEE01B	143	88	1971E18	1N288	NX3171HK	850392
1MRCEE01B	102	89	1971E18	1N798	NX3188HK	850392
1MRCEE01B	104	89	1971E18	1N811	NX3188HK	850392
1MRCEE01B	148	89	1971E18	1N280	NX3171HK	850392

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-3954 — Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station — Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 — Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse — Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78273-2	22500	1MRCEP01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	133	90	1971E18	1N296	NX3171HK	850392
1MRCEE01B	140	91	1971E18	1N278	NX3171HK	850392
1MRCEE01B	146	91	1971E18	1N279	NX3171HK	850392
1MRCEE01B	52	93	0307-2801	FR101	J-9161-5	533616
1MRCEE01B	76	93	1971E18	1N676	NX3171HK	850392
1MRCEE01B	98	93	1971E18	1N805	NX3188HK	850392
1MRCEE01B	40	95	1971E18	1N665	NX3171HK	850392
1MRCEE01B	88	95	1971E18	1N660	NX3171HK	850392
1MRCEE01B	104	95	1971E18	1P052	NX3188HK	850392
1MRCEE01B	124	95	1971E18	1N291	NX3171HK	850392
1MRCEE01B	91	96	1971E18	1N659	NX3171HK	850392
1MRCEE01B	116	97	1971E18	1N289	NX3171HK	850392
1MRCEE01B	95	98	1971E18	1N674	NX3171HK	850392
1MRCEE01B	144	101	1971E18	1N295	NX3171HK	850392
1MRCEE01B	131	102	1971E18	1N651	NX3171HK	850392
1MRCEE01B	110	103	1971E18	1P056	NX3188HK	850392
1MRCEE01B	120	103	1971E18	1N645	NX3171HK	850392
1MRCEE01B	146	103	1971E18	1N281	NX3171HK	850392
1MRCEE01B	148	103	1971E18	1N287	NX3171HK	850392
1MRCEE01B	35	104	0307-1601	40013388-134	NX3171HK	733382
1MRCEE01B	80	105	1971E18	1N623	NX3171HK	850392
1MRCEE01B	101	106	1971E18	1P055	NX3188HK	850392
1MRCEE01B	32	107	0307-1601	40013388-130	NX3171HK	733382
1MRCEE01B	74	107	1971E18	1N620	NX3171HK	850392
1MRCEE01B	85	108	1971E18	1N628	NX3171HK	850392
1MRCEE01B	96	109	1971E18	1N636	NX3171HK	850392
1MRCEE01B	128	109	1971E18	1N638	NX3171HK	850392
1MRCEE01B	111	110	1971E18	1P054	NX3188HK	850392
1MRCEE01B	117	110	1971E18	1N624	NX3171HK	850392
1MRCEE01B	125	110	1971E18	1N637	NX3171HK	850392
1MRCEE01B	56	111	1971E18	1N658	NX3171HK	850392
1MRCEE01B	62	111	1971E18	1N666	NX3171HK	850392
1MRCEE01B	96	111	1971E18	1N634	NX3171HK	850392
1MRCEE01B	104	111	1971E18	1P057	NX3188HK	850392
1MRCEE01B	138	111	1971E18	1N286	NX3171HK	850392
1MRCEE01B	148	111	1971E18	1N297	NX3171HK	850392
1MRCEE01B	65	112	1971E18	1N667	NX3171HK	850392
1MRCEE01B	98	113	1971E18	1N621	NX3171HK	850392
1MRCEE01B	118	113	1971E18	1N657	NX3171HK	850392
1MRCEE01B	140	113	1971E18	1N294	NX3171HK	850392
1MRCEE01B	56	115	1971E18	1N672	NX3171HK	850392
1MRCEE01B	47	116	1971E18	1N670	NX3171HK	850392
1MRCEE01B	117	116	1971E18	1N656	NX3171HK	850392
1MRCEE01B	96	117	1971E18	1N625	NX3171HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3954 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5951 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number: 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78273-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	17	118	1971E18	1I132	NX2227HK	856414
1MRCEE01B	58	119	1971E18	1N661	NX3171HK	850392
1MRCEE01B	27	120	1971E18	1I134	NX2227HK	856414
1MRCEE01B	39	120	1971E18	1I129	NX2227HK	856414
1MRCEE01B	47	120	1971E18	1N675	NX3171HK	850392
1MRCEE01B	71	120	1971E18	1N652	NX3171HK	850392
1MRCEE01B	106	121	1971E18	1N631	NX3171HK	850392
1MRCEE01B	108	121	1971E18	1N635	NX3171HK	850392
1MRCEE01B	7	122	1971E18	1I123	NX2227HK	856414
1MRCEE01B	47	122	1971E18	1N662	NX3171HK	850392
1MRCEE01B	97	122	1971E18	1N626	NX3171HK	850392
1MRCEE01B	105	122	1971E18	1N629	NX3171HK	850392
1MRCEE01B	22	123	1971E18	1I135	NX2227HK	856414
1MRCEE01B	132	123	1971E18	1I113	NX2227HK	856414
1MRCEE01B	138	123	1971E18	1N648	NX3171HK	850392
1MRCEE01B	148	123	1971E18	1I114	NX2227HK	856414
1MRCEE01B	49	124	1971E18	1N663	NX3171HK	850392
1MRCEE01B	71	124	1971E18	1N644	NX3171HK	850392
1MRCEE01B	114	125	1971E18	1N649	NX3171HK	850392
1MRCEE01B	138	125	1971E18	1N641	NX3171HK	850392
1MRCEE01B	140	125	1971E18	1N647	NX3171HK	850392
1MRCEE01B	101	126	1971E18	1N633	NX3171HK	850392
1MRCEE01B	117	126	1971E18	1N653	NX3171HK	850392
1MRCEE01B	96	127	1971E18	1N630	NX3171HK	850392
1MRCEE01B	136	127	1971E18	1N639	NX3171HK	850392
1MRCEE01B	57	128	1971E18	1I109	NX2227HK	856414
1MRCEE01B	63	128	1971E18	1I111	NX2227HK	856414
1MRCEE01B	115	128	1971E18	1N642	NX3171HK	850392
1MRCEE01B	56	129	1971E18	1I110	NX2227HK	856414
1MRCEE01B	25	130	1971E18	1I131	NX2227HK	856414
1MRCEE01B	115	130	1971E18	1N654	NX3171HK	850392
1MRCEE01B	10	131	1971E18	1I124	NX2227HK	856414
1MRCEE01B	78	131	1971E18	1I104	NX2227HK	856414
1MRCEE01B	102	133	1971E18	1I102	NX2227HK	856414
1MRCEE01B	55	134	1971E18	1N655	NX3171HK	850392
1MRCEE01B	69	134	1971E18	1I105	NX2227HK	856414
1MRCEE01B	58	135	1971E18	1N650	NX3171HK	850392
1MRCEE01B	92	137	1971E18	1I101	NX2227HK	856414
1MRCEE01B	94	137	1971E18	1I100	NX2227HK	856414
1MRCEE01B	122	137	1971E18	1I116	NX2227HK	856414
1MRCEE01B	33	138	1971E18	1I125	NX2227HK	856414
1MRCEE01B	55	138	1971E18	1N643	NX3171HK	850392
1MRCEE01B	30	139	1971E18	1I138	NX2227HK	856414
1MRCEE01B	132	139	1971E18	1I117	NX2227HK	856414

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3934 Sheet 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1971 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78273-2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01B
"HOT LEG"

WORK ORDER 2564534

WORK ORDER 2564537

1MRCEE01B	38	141	1971E18	1I120	NX2227HK	856414
1MRCEE01B	60	141	1971E18	1I108	NX2227HK	856414
1MRCEE01B	86	141	1971E18	1I103	NX2227HK	856414
1MRCEE01B	122	141	1971E18	1I115	NX2227HK	856414
1MRCEE01B	53	142	1971E18	1N640	NX3171HK	850392
1MRCEE01B	69	142	1971E18	1I106	NX2227HK	856414
1MRCEE01B	34	143	1971E18	1I137	NX2227HK	856414
1MRCEE01B	105	144	1971E18	1I099	NX2227HK	856414
1MRCEE01B	98	145	1971E18	1I153	NX2227HK	856414
1MRCEE01B	106	145	1971E18	1I118	NX2227HK	856414
1MRCEE01B	63	146	1971E18	1I107	NX2227HK	856414
1MRCEE01B	132	147	1971E18	1I146	NX2227HK	856414
1MRCEE01B	102	149	1971E18	1I151	NX2227HK	856414
1MRCEE01B	110	149	1971E18	1I152	NX2227HK	856414
1MRCEE01B	55	150	1971E18	1I112	NX2227HK	856414
1MRCEE01B	95	150	1971E18	1I150	NX2227HK	856414
1MRCEE01B	42	151	1971E18	1I121	NX2227HK	856414
1MRCEE01B	82	151	1971E18	1I128	NX2227HK	856414
1MRCEE01B	84	151	1971E18	1I130	NX2227HK	856414
1MRCEE01B	66	153	1971E18	1I136	NX2227HK	856414
1MRCEE01B	28	155	1971E18	1I122	NX2227HK	856414
1MRCEE01B	84	155	1971E18	1I126	NX2227HK	856414
1MRCEE01B	30	157	1971E18	1I119	NX2227HK	856414
1MRCEE01B	84	157	1971E18	1I127	NX2227HK	856414
1MRCEE01B	60	163	1971E18	1I154	NX2227HK	856414
1MRCEE01B	92	163	1971E18	1I149	NX2227HK	856414
1MRCEE01B	59	164	1971E18	1I156	NX2227HK	856414
1MRCEE01B	83	168	1971E18	1I148	NX2227HK	856414
1MRCEE01B	58	171	1971E18	1I142	NX2227HK	856414
1MRCEE01B	61	172	1971E18	1I141	NX2227HK	856414
1MRCEE01B	61	174	1971E18	1I140	NX2227HK	856414
1MRCEE01B	58	175	1971E18	1I139	NX2227HK	856414
1MRCEE01B	8	177	1971E18	1I147	NX2227HK	856414
1MRCEE01B	53	182	1971E18	1I143	NX2227HK	856414
1MRCEE01B	35	186	1971E18	1I144	NX2227HK	856414
1MRCEE01B	21	188	1971E18	1I145	NX2227HK	856414

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564537
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273 2	22500	1MRCEE01B	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MRCEE01A
2.. Item Description: Steam Generator #1
3. N-5 Data Package Number: 1RC01-4 4. W.O. Number: 2564541
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse plugs in 1MRCEE01A Cold Leg tubes per DFWO 2564533
8. ☒ ISI Flaw NDE Method of Flaw Detection: Eddy Current
Report Number: 1R11 Eddy Current Exam Report
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Per DFWO 2564533

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 1/22/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 1/22/04 17. 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.
Tube Plugs	See Attached List	See Attached List	See Attached List	See Attached List

18. Planner Barbara Vidal 1/22/04 Printed Name: Barbara Vidal
Signature Date

19. ISI R P Indap 1/30/04 Printed Name: R. P. INDAP
Signature Date

20. ANII R G Hogstrom 1-30-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 1/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2564541

3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	22499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*	2004	Replacement	NO

7. Description of Work: SG11 Cold Leg plugging and repair per DFWO 2564533. * See attached list.

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.

FORM NIS-2 (Back)

9. Remarks: See DFWO 2564533 for tubes plugged. (Plugging list attached)

W.O. 2564541

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: RPindar, Consulting Metallurgical Engineer Date: 5-3-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 1-30-04 to 5-3-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

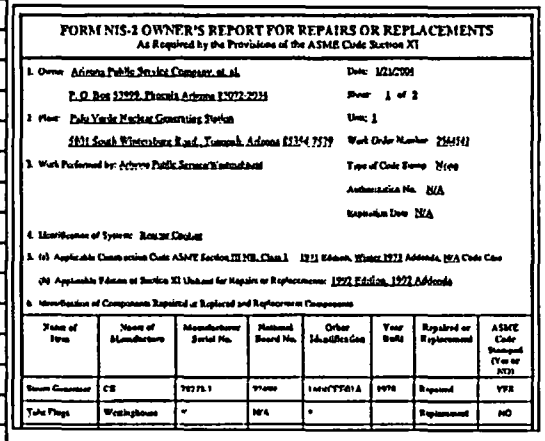
Date: 5-3-04

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

ASME SECTION XI-REPAIR/REPLACEMENT						
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
1MRCEE01A	7	2	0307-1601	40013388-105	NX3171HK	733382
1MRCEE01A	9	6	1971E18	1N980	NX3188HK	850392
1MRCEE01A	12	9	1971E18	1N979	NX3188HK	850392
1MRCEE01A	1	12	0307-1601	40013388-120	NX3171HK	733382
1MRCEE01A	43	16	1971E18	1N933	NX3188HK	850392
1MRCEE01A	38	17	1971E18	1N928	NX3188HK	850392
1MRCEE01A	44	17	1971E18	1N935	NX3188HK	850392
1MRCEE01A	59	20	1971E18	1N918	NX3188HK	850392
1MRCEE01A	67	20	1971E18	1N934	NX3188HK	850392
1MRCEE01A	10	21	1971E18	1N990	NX3188HK	850392
1MRCEE01A	63	22	1971E18	1N927	NX3188HK	850392
1MRCEE01A	100	23	0307-1601	40013388-110	NX3171HK	733382
1MRCEE01A	38	25	1971E18	1N923	NX3188HK	850392
1MRCEE01A	80	25	1971E18	1N911	NX3188HK	850392
1MRCEE01A	57	26	1971E18	1N937	NX3188HK	850392
1MRCEE01A	75	26	1971E18	1N909	NX3188HK	850392
1MRCEE01A	39	28	1971E18	1N106	NX3171HK	850392
1MRCEE01A	78	29	1971E18	1N929	NX3188HK	850392
1MRCEE01A	99	32	1971E18	1N900	NX3188HK	850392
1MRCEE01A	20	33	1971E18	1N921	NX3188HK	850392
1MRCEE01A	90	33	1971E18	1N898	NX3188HK	850392
1MRCEE01A	98	33	1971E18	1N907	NX3188HK	850392
1MRCEE01A	22	35	1971E18	1N829	NX3188HK	850392
1MRCEE01A	51	36	1971E18	1N926	NX3188HK	850392
1MRCEE01A	22	37	1971E18	1N825	NX3188HK	850392
1MRCEE01A	70	37	1971E18	1N922	NX3188HK	850392
1MRCEE01A	82	37	1971E18	1N904	NX3188HK	850392
1MRCEE01A	96	37	1971E18	1N920	NX3188HK	850392
1MRCEE01A	124	37	0307-1601	40013388-115	NX3171HK	733382
1MRCEE01A	91	38	1971E18	1N913	NX3188HK	850392
1MRCEE01A	52	39	1971E18	1N107	NX3171HK	850392
1MRCEE01A	127	40	0307-1601	40013388-117	NX3171HK	733382
1MRCEE01A	18	41	1971E18	1N834	NX3188HK	850392
1MRCEE01A	108	41	1971E18	1N936	NX3188HK	850392
1MRCEE01A	128	41	1971E18	1N924	NX3188HK	850392
1MRCEE01A	87	42	1971E18	1N931	NX3188HK	850392
1MRCEE01A	103	42	1971E18	1N901	NX3188HK	850392
1MRCEE01A	16	43	1971E18	1N818	NX3188HK	850392
1MRCEE01A	22	43	1971E18	1N104	NX3171HK	850392



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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3999 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by: Arizona Public Service Co/Contractor Type of Code Symp Stamp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	7071.1	97000	1ME01EE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	"	N/A	"		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

1MRCEE01A	16	45	1971E18	1N836	NX3188HK	850392
1MRCEE01A	20	45	1971E18	1N115	NX3171HK	850392
1MRCEE01A	63	46	1971E18	1N932	NX3188HK	850392
1MRCEE01A	87	46	1971E18	1N916	NX3188HK	850392
1MRCEE01A	95	46	1971E18	1N914	NX3188HK	850392
1MRCEE01A	135	46	0307-1601	40013388-113	NX3171HK	733382
1MRCEE01A	10	47	1971E18	1N823	NX3188HK	850392
1MRCEE01A	20	47	1971E18	1N835	NX3188HK	850392
1MRCEE01A	90	47	1971E18	1N903	NX3188HK	850392
1MRCEE01A	4	49	1971E18	1N831	NX3188HK	850392
1MRCEE01A	14	49	1971E18	1N837	NX3188HK	850392
1MRCEE01A	137	50	1971E18	1N925	NX3188HK	850392
1MRCEE01A	139	50	0307-1601	40013388-108	NX3171HK	733382
1MRCEE01A	14	51	1971E18	1N828	NX3188HK	850392
1MRCEE01A	54	51	1971E18	1N906	NX3188HK	850392
1MRCEE01A	96	51	1971E18	1N899	NX3188HK	850392
1MRCEE01A	62	53	1971E18	1N919	NX3188HK	850392
1MRCEE01A	59	54	1971E18	1N910	NX3188HK	850392
1MRCEE01A	65	54	1971E18	1N912	NX3188HK	850392
1MRCEE01A	75	54	1971E18	1N917	NX3188HK	850392
1MRCEE01A	105	56	1971E18	1N985	NX3188HK	850392
1MRCEE01A	2	59	1971E18	1N930	NX3188HK	850392
1MRCEE01A	128	59	1971E18	1N902	NX3188HK	850392
1MRCEE01A	80	61	1971E18	1N905	NX3188HK	850392
1MRCEE01A	46	63	1971E18	1N826	NX3188HK	850392
1MRCEE01A	130	63	1971E18	1N077	NX3171HK	850392
1MRCEE01A	37	64	1971E18	1N822	NX3188HK	850392
1MRCEE01A	109	66	1971E18	1N997	NX3188HK	850392
1MRCEE01A	127	66	1971E18	1N908	NX3188HK	850392
1MRCEE01A	2	67	0307-1601	40013388-116	NX3171HK	733382
1MRCEE01A	30	67	1971E18	1N830	NX3188HK	850392
1MRCEE01A	38	67	1971E18	1N819	NX3188HK	850392
1MRCEE01A	1	68	0307-1601	40013388-114	NX3171HK	733382
1MRCEE01A	3	68	0307-1601	40013388-109	NX3171HK	733382
1MRCEE01A	5	68	0307-1601	40013388-104	NX3171HK	733382
1MRCEE01A	129	68	1971E18	1N069	NX3171HK	850392
1MRCEE01A	106	69	1971E18	1M850	NX3171HK	850392
1MRCEE01A	138	69	1971E18	1N915	NX3188HK	850392
1MRCEE01A	142	69	1971E18	1N067	NX3171HK	850392
1MRCEE01A	150	69	1971E18	1N059	NX3171HK	850392
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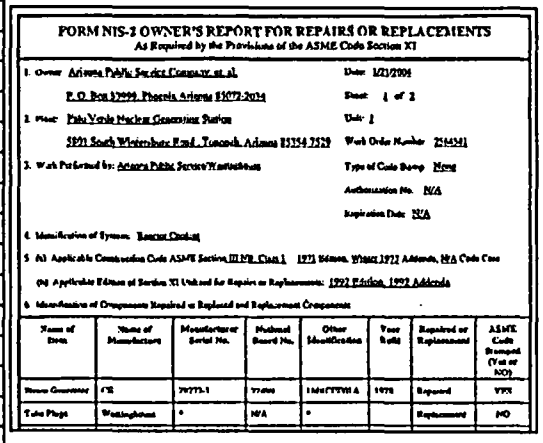

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et al. Date 1/21/2004
P.O. Box 52999, Phoenix Arizona 85072-2034 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit 1
5951 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Symp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Used for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer or Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79773-1	77-000	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

1MRCEE01A	93	70	1971E18	1N992	NX3188HK	850392
1MRCEE01A	16	71	1971E18	1N827	NX3188HK	850392
1MRCEE01A	42	71	1971E18	1N821	NX3188HK	850392
1MRCEE01A	148	71	1971E18	1N071	NX3171HK	850392
1MRCEE01A	150	71	1971E18	1N073	NX3171HK	850392
1MRCEE01A	67	72	1971E18	1N833	NX3188HK	850392
1MRCEE01A	133	72	1971E18	1N062	NX3171HK	850392
1MRCEE01A	149	72	1971E18	1N986	NX3188HK	850392
1MRCEE01A	65	74	1971E18	1N820	NX3188HK	850392
1MRCEE01A	148	75	1971E18	1N058	NX3171HK	850392
1MRCEE01A	150	75	1971E18	1N068	NX3171HK	850392
1MRCEE01A	90	77	1971E18	1N987	NX3188HK	850392
1MRCEE01A	96	77	1971E18	1N978	NX3188HK	850392
1MRCEE01A	42	79	1971E18	1N832	NX3188HK	850392
1MRCEE01A	149	80	1971E18	1N066	NX3171HK	850392
1MRCEE01A	129	82	1971E18	1M848	NX3171HK	850392
1MRCEE01A	131	82	1971E18	1N982	NX3188HK	850392
1MRCEE01A	62	83	1971E18	1N824	NX3188HK	850392
1MRCEE01A	144	83	1971E18	1N065	NX3171HK	850392
1MRCEE01A	103	84	1971E18	1M851	NX3171HK	850392
1MRCEE01A	133	84	1971E18	1N075	NX3171HK	850392
1MRCEE01A	147	84	1971E18	1M844	NX3171HK	850392
1MRCEE01A	130	85	1971E18	1M841	NX3171HK	850392
1MRCEE01A	133	86	1971E18	1M842	NX3171HK	850392
1MRCEE01A	149	86	1971E18	1M843	NX3171HK	850392
1MRCEE01A	112	87	1971E18	1N981	NX3188HK	850392
1MRCEE01A	138	87	1971E18	1M849	NX3171HK	850392
1MRCEE01A	148	87	1971E18	1N213	NX3171HK	850392
1MRCEE01A	39	88	1971E18	1N989	NX3188HK	850392
1MRCEE01A	121	88	1971E18	1M845	NX3171HK	850392
1MRCEE01A	133	88	1971E18	1N076	NX3171HK	850392
1MRCEE01A	137	88	1971E18	1N074	NX3171HK	850392
1MRCEE01A	122	89	1971E18	1M846	NX3171HK	850392
1MRCEE01A	130	89	1971E18	1M840	NX3171HK	850392
1MRCEE01A	74	91	1971E18	1M914	NX3171HK	850392
1MRCEE01A	84	91	1971E18	1N108	NX3171HK	850392
1MRCEE01A	124	91	1971E18	1M847	NX3171HK	850392
1MRCEE01A	97	92	1971E18	1M853	NX3171HK	850392
1MRCEE01A	40	93	1971E18	1N996	NX3188HK	850392
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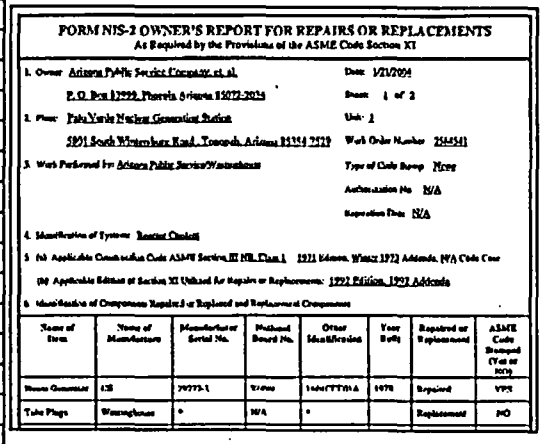

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS
As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et al. Date 1/21/2004
P.O. Box 52999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit 1
5951 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by Arizona Public Service/Westinghouse Type of Code Symp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1993 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer or Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79773-1	N/Ano	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

1MRCEE01A	152	93	1971E18	1N763	NX3188HK	850392
1MRCEE01A	127	94	1971E18	1N060	NX3171HK	850392
1MRCEE01A	138	95	1971E18	1N064	NX3171HK	850392
1MRCEE01A	91	96	1971E18	1N116	NX3171HK	850392
1MRCEE01A	129	96	1971E18	1M856	NX3171HK	850392
1MRCEE01A	157	96	1971E18	1N983	NX3188HK	850392
1MRCEE01A	88	97	1971E18	1N098	NX3171HK	850392
1MRCEE01A	143	98	1971E18	1N764	NX3188HK	850392
1MRCEE01A	99	100	1971E18	1M854	NX3171HK	850392
1MRCEE01A	125	100	1971E18	1M837	NX3171HK	850392
1MRCEE01A	133	100	1971E18	1M839	NX3171HK	850392
1MRCEE01A	139	100	1971E18	1N063	NX3171HK	850392
1MRCEE01A	128	101	1971E18	1M838	NX3171HK	850392
1MRCEE01A	51	102	1971E18	1N079	NX3171HK	850392
1MRCEE01A	61	102	1971E18	1N097	NX3171HK	850392
1MRCEE01A	101	102	1971E18	1M855	NX3171HK	850392
1MRCEE01A	136	103	1971E18	1N772	NX3188HK	850392
1MRCEE01A	146	103	1971E18	1N770	NX3188HK	850392
1MRCEE01A	154	103	1971E18	1N758	NX3188HK	850392
1MRCEE01A	121	104	1971E18	1N061	NX3171HK	850392
1MRCEE01A	149	104	1971E18	1N769	NX3188HK	850392
1MRCEE01A	148	105	1971E18	1N771	NX3188HK	850392
1MRCEE01A	96	107	1971E18	1M911	NX3171HK	850392
1MRCEE01A	128	107	1971E18	1N070	NX3171HK	850392
1MRCEE01A	153	108	1971E18	1N777	NX3188HK	850392
1MRCEE01A	32	109	0307-1601	40013388-128	NX3171HK	733382
1MRCEE01A	42	109	1971E18	1N089	NX3171HK	850392
1MRCEE01A	131	110	1971E18	1N072	NX3171HK	850392
1MRCEE01A	76	111	1971E18	1M910	NX3171HK	850392
1MRCEE01A	96	111	1971E18	1M901	NX3171HK	850392
1MRCEE01A	49	112	1971E18	1N087	NX3171HK	850392
1MRCEE01A	125	112	1971E18	1M905	NX3171HK	850392
1MRCEE01A	28	113	1971E18	1N113	NX3171HK	850392
1MRCEE01A	83	114	1971E18	1M195	NX3171HK	850392
1MRCEE01A	95	114	1971E18	1M908	NX3171HK	850392
1MRCEE01A	153	114	1971E18	1N995	NX3188HK	850392
1MRCEE01A	32	115	1971E18	1N101	NX3171HK	850392
1MRCEE01A	112	115	1971E18	1M900	NX3171HK	850392
1MRCEE01A	130	115	1971E18	1M909	NX3171HK	850392
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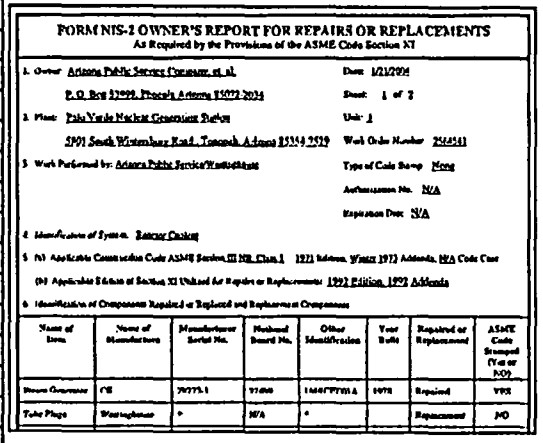
1MRCEE01A	152	115	1971E18	1N984	NX3188HK	850392



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 1/21/1999
P.O. Box 53999, Phoenix, Arizona 85072-3034 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit 1
5901 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Symbol None
Authorization No. N/A
Expiration Date N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

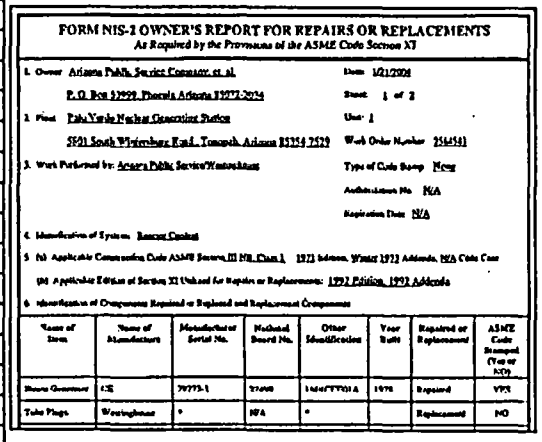
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	39775-1	37400	1040*PV01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

1MRCEE01A	154	115	1971E18	1N994	NX3188HK	850392
1MRCEE01A	25	116	1971E18	1N100	NX3171HK	850392
1MRCEE01A	137	116	1971E18	1N774	NX3188HK	850392
1MRCEE01A	52	119	1971E18	1N085	NX3171HK	850392
1MRCEE01A	17	120	1971E18	1N109	NX3171HK	850392
1MRCEE01A	46	121	1971E18	1N112	NX3171HK	850392
1MRCEE01A	96	121	1971E18	1M902	NX3171HK	850392
1MRCEE01A	59	122	1971E18	1N090	NX3171HK	850392
1MRCEE01A	14	123	1971E18	1N103	NX3171HK	850392
1MRCEE01A	64	127	1971E18	1M913	NX3171HK	850392
1MRCEE01A	128	127	1971E18	1N768	NX3188HK	850392
1MRCEE01A	12	129	1971E18	1N105	NX3171HK	850392
1MRCEE01A	124	129	1971E18	1N765	NX3188HK	850392
1MRCEE01A	128	129	1971E18	1N775	NX3188HK	850392
1MRCEE01A	130	129	1971E18	1N773	NX3188HK	850392
1MRCEE01A	146	129	1971E18	1N762	NX3188HK	850392
1MRCEE01A	133	130	1971E18	1N766	NX3188HK	850392
1MRCEE01A	12	131	1971E18	1N102	NX3171HK	850392
1MRCEE01A	8	133	1971E18	1N099	NX3171HK	850392
1MRCEE01A	137	134	1971E18	1N761	NX3188HK	850392
1MRCEE01A	42	135	1971E18	1N111	NX3171HK	850392
1MRCEE01A	140	135	1971E18	1N759	NX3188HK	850392
1MRCEE01A	84	137	1971E18	1M916	NX3171HK	850392
1MRCEE01A	112	137	1971E18	1N991	NX3188HK	850392
1MRCEE01A	136	137	1971E18	1N993	NX3188HK	850392
1MRCEE01A	71	138	1971E18	1M912	NX3171HK	850392
1MRCEE01A	135	138	1971E18	1N767	NX3188HK	850392
1MRCEE01A	76	139	1971E18	1M899	NX3171HK	850392
1MRCEE01A	106	139	1971E18	1M903	NX3171HK	850392
1MRCEE01A	93	140	1971E18	1M898	NX3171HK	850392
1MRCEE01A	1	142	0307-1601	40013388-124	NX3171HK	733382
1MRCEE01A	25	142	1971E18	1N110	NX3171HK	850392
1MRCEE01A	111	142	1971E18	1M907	NX3171HK	850392
1MRCEE01A	14	143	1971E18	1N988	NX3188HK	850392
1MRCEE01A	105	144	1971E18	1M904	NX3171HK	850392
1MRCEE01A	48	145	1971E18	1N117	NX3171HK	850392
1MRCEE01A	39	146	1971E18	1N114	NX3171HK	850392
1MRCEE01A	93	148	1971E18	1M897	NX3171HK	850392
1MRCEE01A	65	150	1971E18	1N093	NX3171HK	850392
1MRCEE01A	65	154	1971E18	1N080	NX3171HK	850392
1MRCEE01A	96	157	1971E18	1M906	NX3171HK	850392



FORM NIS-1 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 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3014 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Symp New
Authorization No. N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Used for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

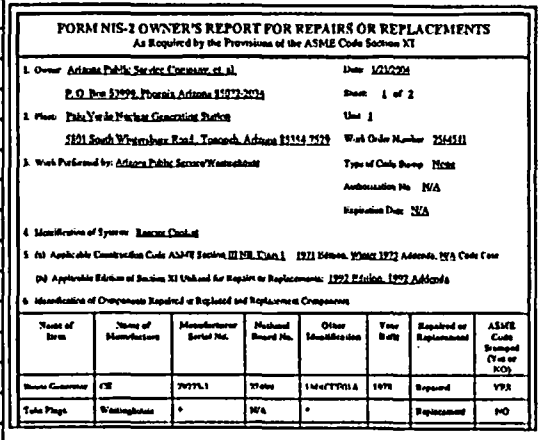
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	70773-1	37408	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"COLD LEG"

DFWO 2564533

DIWO 2564541

1MRCEE01A	33	158	1971E18	1N078	NX3171HK	850392
1MRCEE01A	14	159	1971E18	1N082	NX3171HK	850392
1MRCEE01A	39	162	1971E18	1N083	NX3171HK	850392
1MRCEE01A	44	165	1971E18	1N094	NX3171HK	850392
1MRCEE01A	56	165	1971E18	1N086	NX3171HK	850392
1MRCEE01A	102	167	0307-1601	40013388-111	NX3171HK	733382
1MRCEE01A	23	168	1971E18	1N081	NX3171HK	850392
1MRCEE01A	80	169	1971E18	1N088	NX3171HK	850392
1MRCEE01A	14	171	1971E18	1N095	NX3171HK	850392
1MRCEE01A	31	174	1971E18	1N092	NX3171HK	850392
1MRCEE01A	40	179	1971E18	1N091	NX3171HK	850392
1MRCEE01A	32	181	1971E18	1N084	NX3171HK	850392
1MRCEE01A	43	182	1971E18	1N096	NX3171HK	850392
1MRCEE01A	11	186	0307-1601	40013388-112	NX3171HK	733382
1MRCEE01A	13	186	0307-1601	40013388-107	NX3171HK	733382
1MRCEE01A	39	186	0307-1601	40013388-118	NX3171HK	733382
1MRCEE01A	12	187	0307-1601	40013388-119	NX3171HK	733382
1MRCEE01A	11	188	0307-1601	40013388-106	NX3171HK	733382



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 1/31/2004
P. O. Box 53999, Phoenix Arizona 85072-3074 Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station Unit 1
5801 South Wheatlope Road, Tonopah, Arizona 85354-7529 Work Order Number 2564541
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None
Authorization No N/A
Expiration Date N/A
4. Identification of System Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1972 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	79775-1	37406	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MRCEE01A
2.. Item Description: Steam Generator #1
3. N-5 Data Package Number: 1RC01-4 4. W.O. Number: 2564544
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Install Westinghouse plugs in 1MRCEE01A Hot Leg tubes per DFWO 2564532
8. ☒ ISI Flaw NDE Method of Flaw Detection: Eddy Current
Report Number: 1R11 Eddy Current Exam Report
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Per DFWO 2564532

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 1/22/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 1/22/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 1/22/04 17. 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.
Tube Plugs	See Atteched List	See Atteched List	See Atteched List	See Atteched List

18. Planner Barbara Vidal 1/22/04 Printed Name: Barbara Vidal
Signature Date

19. ISI R. P. Indap 1/30/04 Printed Name: R. P. INDAP
Signature Date

20. ANII R G Hogstrom 1-30-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 1/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2564544

3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Reactor Coolant

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	22499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*	2004	Replacement	NO

7. Description of Work: SG11 Hot Leg plugging and repair per DFWO 2564532. * See attached list.

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.

FORM NIS-2 (Back)

9. Remarks: See DFWO 2564532 for tubes plugged. (Plugging list attached)

W.O. 2564544

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: R.R. Rogers, Consulting Metallurgical Engineer Date: 5-3-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 1-30-04 to 5-3-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R. L. Hylton
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-3-04

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

ASME SECTION XI-REPAIR/REPLACEMENT						
COMP. ID	ROW	COLUMN	PART NO.	SERIAL NO.	HEAT NO.	MR NO.
1MRCEE01A	7	2	1971E18	1N697	NX3171HK	850392
1MRCEE01A	9	6	1971E18	1N692	NX3171HK	850392
1MRCEE01A	12	9	1971E18	1N695	NX3171HK	850392
1MRCEE01A	1	12	0307-1601	40013388-121	NX3171HK	733382
1MRCEE01A	43	16	1971E18	1N855	NX3188HK	850392
1MRCEE01A	38	17	1971E18	1N694	NX3171HK	850392
1MRCEE01A	44	17	1971E18	1N849	NX3188HK	850392
1MRCEE01A	59	20	1971E18	1N752	NX3188HK	850392
1MRCEE01A	67	20	1971E18	1N742	NX3188HK	850392
1MRCEE01A	10	21	1971E18	1N845	NX3188HK	850392
1MRCEE01A	63	22	1971E18	1N854	NX3188HK	850392
1MRCEE01A	100	23	1971E18	1N010	NX3171HK	850392
1MRCEE01A	38	25	034-01	ECEW-61	J-9161-5	533616
1MRCEE01A	80	25	1971E18	1N853	NX3188HK	850392
1MRCEE01A	57	26	1971E18	1N750	NX3188HK	850392
1MRCEE01A	75	26	1971E18	1N856	NX3188HK	850392
1MRCEE01A	39	28	1971E18	1N848	NX3188HK	850392
1MRCEE01A	78	29	1971E18	1N014	NX3171HK	850392
1MRCEE01A	99	32	1971E18	1N756	NX3188HK	850392
1MRCEE01A	20	33	1971E18	1N838	NX3188HK	850392
1MRCEE01A	90	33	1971E18	1N748	NX3188HK	850392
1MRCEE01A	98	33	1971E18	1N755	NX3188HK	850392
1MRCEE01A	22	35	1971E18	1N846	NX3188HK	850392
1MRCEE01A	51	36	1971E18	1N754	NX3188HK	850392
1MRCEE01A	22	37	1971E18	1N847	NX3188HK	850392
1MRCEE01A	70	37	1971E18	1N739	NX3188HK	850392
1MRCEE01A	82	37	1971E18	1N740	NX3188HK	850392
1MRCEE01A	96	37	1971E18	1N741	NX3188HK	850392
1MRCEE01A	124	37	1971E18	1M998	NX3171HK	850392
1MRCEE01A	91	38	1971E18	1N744	NX3188HK	850392
1MRCEE01A	52	39	1971E18	1N746	NX3188HK	850392
1MRCEE01A	127	40	1971E18	1N207	NX3171HK	850392
1MRCEE01A	18	41	1971E18	1N839	NX3188HK	850392
1MRCEE01A	108	41	1971E18	1N745	NX3188HK	850392
1MRCEE01A	128	41	1971E18	1N212	NX3171HK	850392
1MRCEE01A	87	42	1971E18	1N743	NX3188HK	850392
1MRCEE01A	103	42	1971E18	1N757	NX3188HK	850392
1MRCEE01A	16	43	1971E18	1N851	NX3188HK	850392
1MRCEE01A	22	43	1971E18	1N840	NX3188HK	850392

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: 1/31/2004
P. O. Box 53999, Phoenix Arizona 85072-3034 Sheet: 1 of 2
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564544
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5 (a) Applicable Construction Code ASME Section III NB, Case 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	21499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

1MRCEE01A	16	45	1971E18	1N843	NX3188HK	850392
1MRCEE01A	20	45	1971E18	1N852	NX3188HK	850392
1MRCEE01A	63	46	1971E18	1P029	NX3188HK	850392
1MRCEE01A	87	46	1971E18	1N738	NX3188HK	850392
1MRCEE01A	95	46	1971E18	1N753	NX3188HK	850392
1MRCEE01A	135	46	1971E18	1N217	NX3171HK	850392
1MRCEE01A	10	47	1971E18	1N842	NX3188HK	850392
1MRCEE01A	20	47	1971E18	1N850	NX3188HK	850392
1MRCEE01A	90	47	1971E18	1N747	NX3188HK	850392
1MRCEE01A	4	49	1971E18	1N857	NX3188HK	850392
1MRCEE01A	14	49	1971E18	1N844	NX3188HK	850392
1MRCEE01A	137	50	1971E18	1N016	NX3171HK	850392
1MRCEE01A	139	50	1971E18	1N012	NX3171HK	850392
1MRCEE01A	14	51	1971E18	1N841	NX3188HK	850392
1MRCEE01A	54	51	1971E18	1P116	NX3188HK	850392
1MRCEE01A	96	51	1971E18	1N749	NX3188HK	850392
1MRCEE01A	62	53	1971E18	1P105	NX3188HK	850392
1MRCEE01A	59	54	1971E18	1P110	NX3188HK	850392
1MRCEE01A	65	54	1971E18	1P117	NX3188HK	850392
1MRCEE01A	75	54	1971E18	1P107	NX3188HK	850392
1MRCEE01A	105	56	1971E18	1N751	NX3188HK	850392
1MRCEE01A	2	59	1971E18	1N700	NX3171HK	850392
1MRCEE01A	128	59	1971E18	1M950	NX3171HK	850392
1MRCEE01A	80	61	1971E18	1P109	NX3188HK	850392
1MRCEE01A	46	63	1971E18	1P033	NX3188HK	850392
1MRCEE01A	130	63	1971E18	1M952	NX3171HK	850392
1MRCEE01A	37	64	1971E18	1P038	NX3188HK	850392
1MRCEE01A	109	66	1971E18	1P024	NX3188HK	850392
1MRCEE01A	127	66	1971E18	1P019	NX3188HK	850392
1MRCEE01A	2	67	0307-1401	SCEW10	J-9161-1	533616
1MRCEE01A	30	67	1971E18	1P027	NX3188HK	850392
1MRCEE01A	38	67	1971E18	1P023	NX3188HK	850392
1MRCEE01A	1	68	0307-1401	SCEW08	J-9161-1	533616
1MRCEE01A	3	68	1971E18	1N698	NX3171HK	850392
1MRCEE01A	5	68	1971E18	1N699	NX3171HK	850392
1MRCEE01A	129	68	1971E18	1M946	NX3171HK	850392
1MRCEE01A	106	69	1971E18	1P100	NX3188HK	850392
1MRCEE01A	138	69	1971E18	1M954	NX3171HK	850392
1MRCEE01A	142	69	1971E18	1M955	NX3171HK	850392
1MRCEE01A	150	69	1971E18	1M937	NX3171HK	850392
1MRCEE01A	1	70	0307-1401	SCEW07	J-9161-1	533616

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: 1/21/2009
P. O. Box 53999, Phoenix, Arizona 85072-3954 — Sheet: 1 of 1
2. Plant: Palo Verde Nuclear Generating Station — Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 — Work Order Number: 2564544
3. Work Performed by: Arizona Public Service/Westinghouse — Type of Code Stamp: N-NA
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Steam Generator	CE	78273-1	22499	1MRCFE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

1MRCEE01A	93	70	1971E18	1N017	NX3171HK	850392
1MRCEE01A	16	71	1971E18	1P028	NX3188HK	850392
1MRCEE01A	42	71	1971E18	1P036	NX3188HK	850392
1MRCEE01A	148	71	1971E18	1M942	NX3171HK	850392
1MRCEE01A	150	71	1971E18	1M949	NX3171HK	850392
1MRCEE01A	67	72	1971E18	1P102	NX3188HK	850392
1MRCEE01A	133	72	1971E18	1M947	NX3171HK	850392
1MRCEE01A	149	72	1971E18	1M938	NX3171HK	850392
1MRCEE01A	65	74	1971E18	1P118	NX3188HK	850392
1MRCEE01A	148	75	1971E18	1M943	NX3171HK	850392
1MRCEE01A	150	75	1971E18	1M940	NX3171HK	850392
1MRCEE01A	90	77	1971E18	1P103	NX3188HK	850392
1MRCEE01A	96	77	1971E18	1P115	NX3188HK	850392
1MRCEE01A	42	79	1971E18	1P030	NX3188HK	850392
1MRCEE01A	149	80	1971E18	1M945	NX3171HK	850392
1MRCEE01A	129	82	1971E18	1N206	NX3171HK	850392
1MRCEE01A	131	82	1971E18	1N200	NX3171HK	850392
1MRCEE01A	62	83	1971E18	1P111	NX3188HK	850392
1MRCEE01A	144	83	1971E18	1M948	NX3171HK	850392
1MRCEE01A	103	84	1971E18	1P099	NX3188HK	850392
1MRCEE01A	133	84	1971E18	1N202	NX3171HK	850392
1MRCEE01A	147	84	1971E18	1M951	NX3171HK	850392
1MRCEE01A	130	85	1971E18	1N216	NX3171HK	850392
1MRCEE01A	133	86	1971E18	1M953	NX3171HK	850392
1MRCEE01A	149	86	1971E18	1M939	NX3171HK	850392
1MRCEE01A	112	87	1971E18	1P112	NX3188HK	850392
1MRCEE01A	138	87	1971E18	1M944	NX3171HK	850392
1MRCEE01A	148	87	1971E18	1N688	NX3171HK	850392
1MRCEE01A	39	88	1971E18	1P035	NX3188HK	850392
1MRCEE01A	121	88	1971E18	1N208	NX3171HK	850392
1MRCEE01A	133	88	1971E18	1M941	NX3171HK	850392
1MRCEE01A	137	88	1971E18	1M956	NX3171HK	850392
1MRCEE01A	122	89	1971E18	1N203	NX3171HK	850392
1MRCEE01A	130	89	1971E18	1N210	NX3171HK	850392
1MRCEE01A	74	91	1971E18	1P104	NX3188HK	850392
1MRCEE01A	84	91	1971E18	1P114	NX3188HK	850392
1MRCEE01A	124	91	1971E18	1N198	NX3171HK	850392
1MRCEE01A	97	92	1971E18	1P106	NX3188HK	850392
1MRCEE01A	40	93	1971E18	1P026	NX3188HK	850392
1MRCEE01A	106	93	1971E18	1P101	NX3188HK	850392
1MRCEE01A	150	93	1971E18	1N678	NX3171HK	850392

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: 1/21/2004
P.O. Box 53999, Phoenix Arizona 85072-3014 Sheet 1 of 3
2. Plant: Palo Verde Nuclear Generating Station Unit 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number 2564544
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp None
Authorization No. N/A
Expiration Date N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	23499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

1MRCEE01A	152	93	1971E18	1N687	NX3171HK	850392
1MRCEE01A	127	94	1971E18	1N204	NX3171HK	850392
1MRCEE01A	138	95	1971E18	1N205	NX3171HK	850392
1MRCEE01A	91	96	1971E18	1P113	NX3188HK	850392
1MRCEE01A	129	96	1971E18	1N201	NX3171HK	850392
1MRCEE01A	157	96	0307-1601	40013388-122	NX3171HK	733382
1MRCEE01A	88	97	1971E18	1P108	NX3188HK	850392
1MRCEE01A	143	98	1971E18	1N209	NX3171HK	850392
1MRCEE01A	99	100	1971E18	1N005	NX3171HK	850392
1MRCEE01A	125	100	1971E18	1N199	NX3171HK	850392
1MRCEE01A	133	100	1971E18	1N211	NX3171HK	850392
1MRCEE01A	139	100	1971E18	1N215	NX3171HK	850392
1MRCEE01A	128	101	1971E18	1N214	NX3171HK	850392
1MRCEE01A	51	102	1971E18	1P032	NX3188HK	850392
1MRCEE01A	61	102	1971E18	1P034	NX3188HK	850392
1MRCEE01A	101	102	1971E18	1N004	NX3171HK	850392
1MRCEE01A	136	103	1971E18	1N015	NX3171HK	850392
1MRCEE01A	146	103	1971E18	1N693	NX3171HK	850392
1MRCEE01A	154	103	1971E18	1N681	NX3171HK	850392
1MRCEE01A	121	104	1971E18	1N007	NX3171HK	850392
1MRCEE01A	149	104	1971E18	1N679	NX3171HK	850392
1MRCEE01A	148	105	1971E18	1N682	NX3171HK	850392
1MRCEE01A	96	107	1971E18	1N001	NX3171HK	850392
1MRCEE01A	128	107	1971E18	1N013	NX3171HK	850392
1MRCEE01A	153	108	1971E18	1N685	NX3171HK	850392
1MRCEE01A	32	109	1971E18	1N796	NX3188HK	850392
1MRCEE01A	42	109	1971E18	1P021	NX3188HK	850392
1MRCEE01A	131	110	1971E18	1N781	NX3188HK	850392
1MRCEE01A	76	111	1971E18	1M997	NX3171HK	850392
1MRCEE01A	96	111	1971E18	1N002	NX3171HK	850392
1MRCEE01A	49	112	1971E18	1P025	NX3188HK	850392
1MRCEE01A	125	112	1971E18	1N011	NX3171HK	850392
1MRCEE01A	28	113	1971E18	1N787	NX3188HK	850392
1MRCEE01A	83	114	1971E18	1N003	NX3171HK	850392
1MRCEE01A	95	114	1971E18	1M999	NX3171HK	850392
1MRCEE01A	153	114	0307-1601	40013388-127	NX3171HK	733382
1MRCEE01A	32	115	1971E18	1N778	NX3188HK	850392
1MRCEE01A	112	115	1971E18	1N009	NX3171HK	850392
1MRCEE01A	130	115	1971E18	1N008	NX3171HK	850392
1MRCEE01A	146	115	1971E18	1N788	NX3188HK	850392
1MRCEE01A	152	115	1971E18	1N703	NX3171HK	850392

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: 1/21/2009
P. O. Box 53999, Phoenix Arizona 85072 2034 Sheet: 1 of 3
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564544
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	22499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

1MRCEE01A	154	115	0307-1601	40013388-123	NX3171HK	733382
1MRCEE01A	25	116	1971E18	1N711	NX3171HK	850392
1MRCEE01A	137	116	1971E18	1N792	NX3188HK	850392
1MRCEE01A	52	119	1971E18	1P037	NX3188HK	850392
1MRCEE01A	17	120	1971E18	1N712	NX3171HK	850392
1MRCEE01A	46	121	1971E18	1P022	NX3188HK	850392
1MRCEE01A	96	121	1971E18	1N006	NX3171HK	850392
1MRCEE01A	59	122	1971E18	1P031	NX3188HK	850392
1MRCEE01A	14	123	1971E18	1N704	NX3171HK	850392
1MRCEE01A	64	127	1971E18	1P020	NX3188HK	850392
1MRCEE01A	128	127	1971E18	1N795	NX3188HK	850392
1MRCEE01A	12	129	1971E18	1N717	NX3171HK	850392
1MRCEE01A	124	129	1971E18	1N791	NX3188HK	850392
1MRCEE01A	128	129	1971E18	1N780	NX3188HK	850392
1MRCEE01A	130	129	1971E18	1N784	NX3188HK	850392
1MRCEE01A	146	129	1971E18	1N709	NX3171HK	850392
1MRCEE01A	133	130	1971E18	1N793	NX3188HK	850392
1MRCEE01A	12	131	1971E18	1N714	NX3171HK	850392
1MRCEE01A	8	133	1971E18	1N713	NX3171HK	850392
1MRCEE01A	137	134	1971E18	1N786	NX3188HK	850392
1MRCEE01A	42	135	1971E18	1I065	NX2227HK	856414
1MRCEE01A	140	135	1971E18	1N705	NX3171HK	850392
1MRCEE01A	84	137	1971E18	1N797	NX3188HK	850392
1MRCEE01A	112	137	1971E18	1N790	NX3188HK	850392
1MRCEE01A	136	137	1971E18	1N716	NX3171HK	850392
1MRCEE01A	71	138	1971E18	1N785	NX3188HK	850392
1MRCEE01A	135	138	1971E18	1N710	NX3171HK	850392
1MRCEE01A	76	139	1971E18	1N782	NX3188HK	850392
1MRCEE01A	106	139	1971E18	1N783	NX3188HK	850392
1MRCEE01A	93	140	1971E18	1N779	NX3188HK	850392
1MRCEE01A	1	142	0307-1601	40013388-126	NX3171HK	733382
1MRCEE01A	25	142	1971E18	1N706	NX3171HK	850392
1MRCEE01A	111	142	1971E18	1N794	NX3188HK	850392
1MRCEE01A	14	143	1971E18	1N707	NX3171HK	850392
1MRCEE01A	105	144	1971E18	1N789	NX3188HK	850392
1MRCEE01A	48	145	1971E18	1I062	NX2227HK	856414
1MRCEE01A	39	146	1971E18	1I066	NX2227HK	856414
1MRCEE01A	93	148	1971E18	1N715	NX3171HK	850392
1MRCEE01A	65	150	1971E18	1N701	NX3171HK	850392
1MRCEE01A	65	154	1971E18	1N708	NX3171HK	850392
1MRCEE01A	96	157	1971E18	1N702	NX3171HK	850392

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-3014 Sheet: 1 of 1
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number: 2564544
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78773-1	22499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

STEAM GENERATOR 1MRCEE01A
"HOT LEG"

DFWO 2564532

DIWO 2564544

1MRCEE01A	33	158	1971E18	1N680	NX3171HK	850392
1MRCEE01A	14	159	1971E18	1N686	NX3171HK	850392
1MRCEE01A	39	162	1971E18	1N689	NX3171HK	850392
1MRCEE01A	44	165	1971E18	1N684	NX3171HK	850392
1MRCEE01A	56	165	1971E18	1N683	NX3171HK	850392
1MRCEE01A	102	167	1971E18	1I063	NX2227HK	856414
1MRCEE01A	23	168	1971E18	1N696	NX3171HK	850392
1MRCEE01A	80	169	1971E18	1I068	NX2227HK	856414
1MRCEE01A	14	171	1971E18	1N691	NX3171HK	850392
1MRCEE01A	31	174	1971E18	1N690	NX3171HK	850392
1MRCEE01A	40	179	1971E18	1I067	NX2227HK	856414
1MRCEE01A	32	181	1971E18	1I060	NX2227HK	856414
1MRCEE01A	43	182	1971E18	1I097	NX2227HK	856414
1MRCEE01A	11	186	1971E18	1I096	NX2227HK	856414
1MRCEE01A	13	186	1971E18	1I061	NX2227HK	856414
1MRCEE01A	39	186	1971E18	1I098	NX2227HK	856414
1MRCEE01A	12	187	1971E18	1I095	NX2227HK	856414
1MRCEE01A	11	188	1971E18	1I064	NX2227HK	856414

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: 1/21/2004
P. O. Box 53999, Phoenix Arizona 85072-3014 Sheet: 1 of 1
2. Plant: Palo Verde Nuclear Generating Station Unit: 1
5801 South Wintersburg Road, Tonopah, Arizona 85354-7529 Work Order Number: 2564544
3. Work Performed by: Arizona Public Service/Westinghouse Type of Code Stamp: None
Authorization No.: N/A
Expiration Date: N/A
4. Identification of System: Reactor Coolant
5. (a) Applicable Construction Code: ASME Section III NB, Class 1 1971 Edition, Winter 1973 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Steam Generator	CE	78273-1	22499	1MRCEE01A	1978	Repaired	YES
Tube Plugs	Westinghouse	*	N/A	*		Replacement	NO

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1PSIAL510 2. Code Class ASME Section III Class 1
3. Item Description: Inlet Piping to 1JSIAPSV754
4. N-5 Data Package Number: N/A 5. W.O. Number: 2566554
6. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replace Inlet Piping to 1JSIAPSV754 per WO 2566554
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Piping modified to reduce pipe stress at the inlet of the PSV, No failure of the ASME code boundry.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial N/A Date N/A If required, include a step in the W.O. to perform Preservice Inspection

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

Initial N/A Date N/A If required, include a step in the W.O. for ISI & ANII Inspection.

Initial [signature] Date 11/8/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial [signature] Date 11/8/02 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.
3/4" Pipe	APN 43510518		437972	MR 698404
3/4" Reducing Coupling	APN 43561403		HTH	MR 698254
1/2" Flange, SO,RF	APN 43581508		838XNE	MR 698254

19. Planner [signature] 11/8/02 Printed Name: Glenn E. Moore
Signature Date

20. ISI [signature] 11/8/02 Printed Name: R.P. INDAP
Signature Date

21. ANII [signature] 11-8-02 Printed Name: R.G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 11/08/2002

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2566554

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SI. (Safety Injection) ASME Section III Class 1

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
3/4" Pipe	N/A	N/A	N/A	1PSIAL510	2002	Replacement	NO
3/4" Reducing Coupling	N/A	N/A	N/A	1PSIAL510	2002	Replacement	NO
1/2" Flange	N/A	N/A	N/A	1PSIAL510	2002	Replacement	NO

7. Description of Work: Replace inlet piping and Flange to 1JSIAPSV754.

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.

FORM NIS-2 (Back)

9. Remarks: Replace Piping and Inlet Flange to 1JSIAPSV754, Reference EDC# 2002-00481, Work Order 2566554.

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: SR. ENGINEER Date: 11-11-02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 11-8-02 to 11-11-02, 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.

Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 11-11-02

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1MDGBE04 2. Code Class ASME Section III Class 3
3. Item Description: Diesel Lube Oil Cooler
4. N-5 Data Package Number: Not Available 5. W.O. Number: 2577145
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Weld build up of corroded area on the Lube Oil cooler cooling water plenum
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Weld build up required due to through wall leak due to corrosion caused by failure of coatings, repair area to be coated with Belzona which has been proven to protect the surfaces of the coolers.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer 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 _____ Date 01/08/2003 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial _____ Date 01/08/2003 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial _____ Date 01/08/2003 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial _____ Date 01/08/2003 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.
Channel Assembly	4-321-19-815-008	9-20016-02-4		

19. Planner _____ 1/8/03 Printed Name: _____
Signature Date

20. ISI _____ 1/8/03 Printed Name: FRED POTEET
Signature Date

21. ANII RELEASED PER 73DP-9ZZ17 1/8/03 Printed Name: ROBERT HOGSTRON FRED POTEET
Signature 1-9-03 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: 01/08/2003

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2577145

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Diesel Generator (DG)

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG Lube Oil Cooler	America-Standard	9-20016-02-4		1MDGBE04		Repaired	YES

7. Description of Work: Weld repair of leaking area on Channel Assembly

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

Other ☐ Pressure 42 psi Test Temperature 52 °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)

9. Remarks: W.O. 2577145 is to repair leaking Channel Head Assembly and recoat with Belzona.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: [signature] Date: 1/9/03

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of January 9, 2003 to January 9, 2003, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature]

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: January 9, 2003

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSGEL011 2. Code Class ASME Section III Class 2
3. Item Description Pipe Spool
4. N-5 Package Number 1SG02-1 5. W.O. Number 2581743
6. Original Construction Code Edition 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Pipe spool due to Flow Accelerated Erosion Corrosion, DIDM 2581742 EDC# 2003-00114

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement of Eroded piping with Stainless Steel as Described in DIDM 2581742, EDC# 2003-00114 There was no failure of the Code Pressure Boundry

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Sec.III Cl2/'74 Edition '75 Summer Addenda
13. Repair/Replacement Activity Construction Code/Edition Sec.III Cl.2/'74 Edition '75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☑ YES ☐ NO
KOS Initial 8/20/2003 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
KOS Initial 8/20/2003 Date If required, include a step in the W.O. for ISI & ANII Inspection.
KOS Initial 8/20/2003 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
KOS Initial 8/20/2003 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
8" Pipe	APN 00061187	385840	385840	MR# 753958
8" Elbow 90 Deg.	APN 00067691		MBHZ-1	MR# 753958
8" Elbow 45 Deg.	APN 00075952		LYZV-1	MR# 753958
8" PIPE	APN00061187		D351008	MR# 753958
8" PIPE	APN00064731		C 66845	MR# 754727

19. Planner Karl V. Savage Signature 8/20/2003 Date Print Name Karl V. Savage
20. ISI Engineer R P Indap Signature 9/9/03 Date Print Name Ramakant P. Indap
21. ANII R G Hogstrom Signature 9-16-03 Date Print Name Robert G. Hogstrom

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1SG011H017
2. Item Description: PIPE SUPPORT
3. N-5 Data Package Number: _____ 4. W.O. Number: 2581743
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Pipe Support Components changed to Stainless Steel to match Line 1PSGEL011 Ref. EDC# 2003-00114.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
   4" Dummy Pipe (Item #30) on Hanger Drawing 13-SG-011-H-017 Changed to Stainless Steel to match Pipe Line 1PSGEL011, Reference EDC# 2003-00114, No Failure of the Hanger.
10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III NF Cl 2, 1974 Edition Winter 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III NF Cl 2, 1974 Edition Winter 1975 Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☒ YES ☐ NO

Initial KVS Date 3/31/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial KVS Date 3/31/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial KVS Date 3/31/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial KVS Date 3/31/04 17. 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.
1SG011H017	APN 43510095		D342853 4/22/04	MR 753958

18. Planner Karl Vaughn Savage 3/31/04 Printed Name: Karl Vaughn Savage
    Signature Date
19. ISI R P Indap 4/1/04 Printed Name: R. P. INDAP
    Signature Date
20. ANII R G Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 05/06/04

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2581743

3. Work Performed by: Arizona Public Service Co. Type of Code Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona, 85354-7529 Authorization No. N/A

   Expiration Date N/A

4. Identification of System: SG

5. (a) Applicable Construction Code ASME Section III, Class 2 1974 Edition, Winter 1975 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Pipe Spool	N/A	N/A	N/A	1PSGEL011	2004	Replacement	No
Dummy Pipe (Item #30)	N/A	N/A	N/A	1SG011H011	2004	Replacement	No

7. Description of Work: Replaced pipe spool due to Flow Accelerated Erosion/Corrosion of original pipe

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.

FORM NIS-2 (Back)

J. Remarks: W.O. 2581743, Pressure test per N-416-1. Work order replaced a portion of pipe spool S-006 of line 1PSGEL011 with stainless steel. Additionally, changed 4" dummy pipe (Item #30) on hanger drawing 13-SG-011-H-017 to stainless steel to match pipe line 1PSGEL011, Reference EDC# 2003-00114.

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: Alan Morrow ISI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 9-16-03 to 5-7-04, 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.

RB Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSIBFE0348
2. Item Description: Conatinment Spray Pump "B" Discharge Flow Element
3. N-5 Data Package Number: 1SI06-1 4. W.O. Number: 2590635
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Remove flow element and approximately 2 foot of upstream piping, install new flange, spool and annubar IAW DMWO 2316467.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Replacement is IAW DMWO 2316467. Modification is to enhance the performance and not because of any failure. RPIndap 10/13/03

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ~~☒ YES~~ ☒ NO RPI 10/13/03

Initial MEM Date 10/13/2003 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial MEM Date 10/13/2003 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MEM Date 10/13/2003 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial MEM Date 10/13/2003 17. 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.
Flanged Pipe Section	APN # 65137	13703.2.2	N/A	MR# 846461
Annubar Flow Element	APN # 65137	13703.1.2	N/A	MR# 846461
10" RF Flange	APN # 68314	N/A	BUC	MR# 798353

18. Planner Glenn E Moore 10/13/03 Printed Name: Glenn E. Moore
Signature Date

19. ISI RPIndap 10/13/03 Printed Name: Ramakant Indap
Signature Date

20. ANII RH Hogstrom 10-15-03 Printed 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: 04/22/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2590635

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Safety Injection System (SI) ASME Sect. III Class 2

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Flanged Pipe Section	Dietrich Standard	13703.2.2	N/A	N/A	2004	Replacement	YES
Annubar Flow Element	Dietrich Standard	13703.1.2	N/A	N/A	2004	Replacement	YES
10" RF Pipe Flange	n/a	n/a	n/a	Ht : BUC	2004	Replacement	No

7. Description of Work: Remove flow element and section of pipe and install new spool and annubar element.

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.

FORM NIS-2 (Back)

9. Remarks: Flow Element 1JSIBFE0348 to be removed along with upstream flange and approximately 2 feet of piping. This will be replaced with a new flange and spool assembly containing an annubar element.

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: Alan Monow ISI Engineer Date: 4/22/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 10-15-03 to 4-23-04, 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.

RJ Hyatt Commissions: NB 9685 "ANIC" Az 264
Inspectors Signature

Date: 4-23-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1JCHNPSV0345 2. Code Class ASME Section III Class 2
3. Item Description: Crosby relief valve
4. N-5 Data Package Number: 1CH13-1 5. W.O. Number: 2595741
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Remove valve and install spare, existing valve lifting early.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a pressure boundary failure. Valve is being replaced due to lifting early.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1976 Summer Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial _____ Date 5-19-03 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial _____ Date 5-19-03 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial _____ Date 5-19-03 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial _____ Date 5-19-03 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.
1JCHNPSV0345	APN 45000476	N61180-01-0009	n/a	MR 750185

19. Planner _____ 5-19-03 Printed Name: David Goodlet
Signature Date

20. ISI _____ 5/19/03 Printed Name: Alan Morrow
Signature Date

21. ANII Alan Morrow per telecon per Robert Hagstrom 5-19-03 Printed Name: Robert Hagstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 05/17/2003

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2595741

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   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 1976 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Crosby	N61180-01-0009	n/a	1JCHNPSV-0345	1991	Replacement	YES

7. Description of Work: Installed spare valve due to existing valve lifting and reseating low.

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.

FORM NIS-2 (Back)

9. Remarks: Valve 1JCHNPSV0345 was replaced with spare under wo# 2595741 due to existing valve lifting and reseating lower than expected.

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: [signature] SR. ISI ENGINEER Date: 5/22/03
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 5-19-03 to 5-22-03, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature]
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-22-03

Visual Examination for Leakage

Site/Unit: PVNGS 1 | Procedure: 73TI-9ZZ78 | Outage No.: online
Summary No.: N/A | Procedure Revision/FC: 4 / N/A | Report No.: 03-294
Workscope: Repair/Replacement | Work Order No.: 2595741 | Page: 1 of 1

Code: ASME III CL 2 | Code Cat.: N/A | Location: 108' Aux Building
Drawing No.: 03-M-CHP-001 | Description: Letdown PSV 345
System ID: CH
Component ID: 1JCHNPSV0345
Limitations: None

Resolution: VT-2 .158"
Visual Equipment/Aids: Flashlight, APS cal std.: APS-VT-011
Examination Conditions: Non-Insulated ☒ Insulated ☐ Buried ☐ Inaccessible ☐
~~(These conditions shall be identified on the attached drawing)~~ am 5/22/03
Test Method/Hold Time: ☒ System Leakage / 10 min.
System Leakage/Not Required ☐ System Functional/10 Minute ☐ System Inservice/4 Hours ☐
System Hydrostatic/10 Minute Non-Insulated, 4 Hour Insulated ☐ System Pneumatic/10 Minute ☐

Conditions to be Verified:

Pressure Gage No.: Control Room | Cal Date: N/A | Range: N/A | Pressure: 450 psig
Temp. Gage No.: N/A | Cal Date: N/A | Temp.: 84 °F
Relief Valve No.: N/A | Cal Date: N/A | Proper Valve Line Up: Yes ☒ N/A ☐
Stop Watch No.: N/A (If Used) N/A
Time Test Pressure Achieved: N/A | Exam Start Time: N/A | Exam End Time: N/A
Flowmeter Rate: Upstream: N/A | Downstream: - N/A
Pressure Decay Exam: Hold Time: N/A. | Pressure: N/A

Visual Examination:

Observed Conditions	Accept	Reject	N/A	See Comments	Comments/Leak Rate
1) Insulated			✓		
2) Uninsulated	✓				
3) Buried Systems			✓		
4) Collection Systems			✓		
5) Boric Acid Residues			✓		
6) Corrosion			✓		

Comments: CAL. TIMES: 14:45/15:15

Results: Accept ☒ Reject ☐
Percent Of Coverage Obtained > 90%: 100% | Reviewed Previous Data: N/A

Examiner	Level	Signature	Date	Reviewer	Signature	Date
F. POTEET	II /		5/22/03	N/A /		
Examiner	Level	Signature	Date	Site Review	Signature	Date
	N/A /			F. POTEET /		5/22/03
Other	Level	Signature	Date	ANII Review	Signature	Date
	N/A /			/		5-22-03

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MRCEX01
2.. Item Description: Reactor Vessel
3. N-5 Data Package Number: 1RC01-4 4. W.O. Number: 2609564
5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replacement of RV stud as part of routine maintenance.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of the ASME III pressure boundry. Stud is being replaced as part of routine maintenance. (a precautionery measure for ease of installation) RPI 4/19/04

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☒ YES ☐ NO

Initial BV Date 4/19/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 4/19/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 4/19/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 4/19/04 17. 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.
Reactor Vessel Stud	APN 43160052	42	M-7821-4	MR 853874

18. Planner Barb Vidal (Signature) 4/19/04 (Date) Printed Name: Barbara Vidal

19. ISI R P Indap (Signature) 4/19/04 (Date) Printed Name: R. P. INDAP

20. ANII R G Hogstrom (Signature) 4-19-04 (Date) Printed Name: R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 4/19/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609564

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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 Components Repaired or Replaced and 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)
RV Stud	CE	42	N/A	N/A	2004	Replacement	NO

7. Description of Work: Stud is being replaced as a precautionary measure for ease of installation.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2609564. No failure of the ASME III pressure boundry. Stud is being replaced as a precautionary measure for ease of installation.

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: RP Hodge Consulting Metallurgical Engineer Date: 4/30/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-19-04 to 5-3-04, 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.

RB Lytton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-3-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JRCEPSV0200
2. Item Description: Pressurizer Safety Relief Valve
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2609574
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Pressurizer safety relief valve with a reconditioned spare.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
   No failure of ASME III pressure boundary. Valve is being rotated to support vendor testing. Replacement valve is SN BS-08614.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 4/1/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial BV Date 4/1/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 4/1/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 4/1/04 17. 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.
1JRCEPSV0200	N/A	BS-08614	N/A	

18. Planner Barb Vidal 4/1/04 Printed Name: Barbara Vidal
    Signature Date
19. ISI R P Indap 4/1/04 Printed Name: R.P. INDAP
    Signature Date
20. ANII R G Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/01/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609574

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
PSV	Dresser	BS-08614	N/A	1JRCEPSV0200	1978	Replacement	YES

7. Description of Work: Valve being replaced as part of routine maintenance.

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.

FORM NIS-2 (Back)

7. Remarks: WO# 2609574. PSV being replaced as part of routine maintenance. SN BS-08614.

package reviewed R. Inslap 4/30/04

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: Alan Morrow ISI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-1-04 to 5-7-04, 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.

RB Hylton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 1JRCEPSV0201
2.. Item Description: Pressurizer Safety Relief Valve
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2609575
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Pressurizer safety relief valve with a reconditioned spare.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of ASME III pressure boundary. Valve is being rotated to support vendor testing. Replacement valve is SN BS-08565.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 4/1/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial BV Date 4/1/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 4/1/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 4/1/04 17. 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.
1JRCEPSV0201	N/A	BS-08565	N/A	

18. Planner Barb Vidal 4/1/04 Printed Name: Barbara Vidal
Signature Date

19. ISI R P Lindap 4/1/04 Printed Name: R. P. LINDAP
Signature Date

20. ANII RG Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/01/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609575

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
PSV	Dresser	BS-08565	N/A	1JRCEPSV0201	1978	Replacement	YES

7. Description of Work: Valve being replaced as part of routine maintenance.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2609575. PSV being replaced as part of routine maintenance. SN BS-08565.

Package reviewed R. Indap 4/30/04

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: Alan Mouw ISI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-1-04 to 5-7-04, 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.

RJ Hayton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JRCEPSV0202
2. Item Description: Pressurizer Safety Relief Valve
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2609576
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Pressurizer safety relief valve with a reconditioned spare.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
   No failure of ASME III pressure boundary. Valve is being rotated to support vendor testing. Replacement valve is SN BS-08616.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO
    Initial BV Date 4/1/04 If required, include a step in the W.O. to perform Preservice Inspection
15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
    Initial BV Date 4/1/04 If required, include a step in the W.O. for ISI & ANII Inspection.
    Initial BV Date 4/1/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
    Initial BV Date 4/1/04 17. 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.
1JRCEPSV0202	N/A	BS-08616	N/A	

18. Planner Barb Vidal 4/1/04 Printed Name: Barbara Vidal
    Signature Date
19. ISI R P Indap 4/1/04 Printed Name: R. P. INDAP
    Signature Date
20. ANII RG Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/01/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609576

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
PSV	Dresser	BS-08616	N/A	1JRCEPSV0202	1978	Replacement	YES

7. Description of Work: Valve being replaced as part of routine maintenance.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2609576. PSV being replaced as part of routine maintenance. SN BS-08616.

Package Reviewed R. Indap 4/30/04 Friday

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: Alan Morrow FSI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-1-04 to 5-7-04, 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.

RB Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JRCEPSV0203
2.. Item Description: Pressurizer Safety Relief Valve
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2609577
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace the Pressurizer safety relief valve with a reconditioned spare.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No failure of ASME III pressure boundary. Valve is being rotated to support vendor testing. Replacement valve is SN BS-08567.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO
Initial BV Date 4/1/04 If required, include a step in the W.O. to perform Preservice Inspection
15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial BV Date 4/1/04 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial BV Date 4/1/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial BV Date 4/1/04 17. 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.
1JRCEPSV0203	N/A	BS-08567	N/A	

18. Planner Barb Vidal 4/1/04 Printed Name: Barbara Vidal
Signature Date
19. ISI R P Indap 4/1/04 Printed Name: R. P. INDAP
Signature Date
20. ANII R G Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/01/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609577

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
PSV	Dresser	BS-08567	N/A	1JRCEPSV0203	1978	Replacement	YES

7. Description of Work: Valve being replaced as part of routine maintenance.

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.

FORM NIS-2 (Back)

7. Remarks: WO# 2609577. PSV being replaced as part of routine maintenance. SN BS-08567.

Package reviewed R Zaleski 4/30/

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: Alan Morrow ISI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-1-04 to 5-7-04, 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.

RB Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page of

1. Component ID 1MDGAE05 2. Code Class ASME Secton III Class 3
3. Item Description: JACKET WATER COOLER
4. N-5 Data Package Number: 1DG02-8 5. W.O. Number: 2609600
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
WELD BUILD UP OF BASE MATERIAL REQUIRED DUE TO EXCEEDING MINIMUM WALL THICKNESS, REPAIRED AREAS TO BE PROTECTED WITH COATINGS.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer 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 RLB 4-18-04 ☒ NO
Initial MA Date 4-17-04 If required, include a step in the W.O. to perform Preservice Inspection
16. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial MA Date 4-17-04 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial MA Date 4-17-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial MA Date 4-17-04 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.
1MDGAE05 REV COVER	4-500-19-515-001	9-20016-01-1		
1MDGAE05 INLET SPOOL.	4-305-19-215-018	9-20016-01-1		
1MDGAE05 REV. SPOOL	4-321-19-815-007	9-20016-01-1		
1MDGAE05 INLET COVER	4-500-19-515-001	9-20016-01-1		

19. Planner Martin M. Sullivan per telecon M. Sullivan 4/17/04 Printed Name: Martin J. Sullivan
Signature Date
20. ISI RLB 4-18-04 Printed Name: R.L. BROWNING
Signature Date
21. ANII RG Hagstrom 4-18-04 Printed Name: R.G. HAGSTROM
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: 04/17/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609600

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: 1MDGAE05

5. (a) Applicable Construction Code ASME Section III ~~NF~~, Class 3 1974 Edition, Summer 1976 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG "A"jacket water cooler	American Standard	9-20016-01-1	31978	1MDGAE05	1978	Repaired	YES
—							—

7. Description of Work: Weld build up of corroded wall of the cooler, and covers.

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 (I) 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)

7. Remarks: WELD REPAIR OF BASE METAL W.O. # 2609600

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: Alan Morrow ISI Engineer Date: 4/27/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-18-04 to 4-27-04, 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.

RB Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-27-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page of

1. Component ID 1MDGBE05 2. Code Class ASME Secton III Class 3
3. Item Description: JACKET WATER COOLER
4. N-5 Data Package Number: 1DG02-8 5. W.O. Number: 2609601
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
WELD BUILD UP OF BASE MATERIAL REQUIRED DUE TO EXCEEDING MINIMUM WALL THICKNESS, REPAIRED AREAS TO BE PROTECTED WITH COATINGS.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer 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 PLB 4-8-04
Initial MH Date 4-8-04 If required, include a step in the W.O. to perform Preservice Inspection
16. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial MH Date 4-8-04 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial MH Date 4-8-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial MH Date 4-8-04 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.
1MDGBE05 REV. COVER	4-500-19-215-001	9-20016-01-3		
1MDGBE05 INLET COVER	4-500-19-515-001	9-20016-01-3		
1MDGBE05 REV SPOOL	4-321-19-815-007	9-20016-01-3		

19. Planner [signature] 4-8-04 Printed Name: Martin J. Sullivan
Signature Date
20. ISI [signature] 4-8-04 Printed Name: R.L. Browning
Signature Date
21. ANII [signature] 4-8-04 Printed Name: R.G. Hogstrom
Signature Date

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

1. Owner: Arizona Public Service Company, et. al. Date: 04/08/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609601

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: 1MDGBE05

5. (a) Applicable Construction Code ASME Section III ~~NF~~, Class 3 1974 Edition, Summer 1976 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG "B" J.W. cooler	American Standard	9-20016-01-3	~~31979~~ 33116	1MDGBE05	~~1978~~ 1979	Repaired	YES

7. Description of Work: Weld build up of corroded wall of the cooler, and covers.

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.

FORM NIS-2 (Back)

9. Remarks: WELD REPAIR OF BASE METAL W.O. # 2609601

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: VIA R.L. BROWNE RLB ISI ENG Date: 4-16-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-8-04 to 4-16-04, 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.

RJ Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-16-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1MDGAE04 2. Code Class ASME Secton III Class 3
3. Item Description: LUBE OIL COOLER
4. N-5 Data Package Number: 1DG02-8 5. W.O. Number: 2609604
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
WELD BUILD UP OF BASE MATERIAL REQUIRED DUE TO EXCEEDING MINIMUM WALL THICKNESS, REPAIRED AREAS TO BE PROTECTED WITH COATINGS.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer 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 MJS Date 4-17-04 RLB 4-18-04 If required, include a step in the W.O. to perform Preservice Inspection
16. ASME Section XI Pressure Test Required: ☒ YES ☐ NO
Initial MJS Date 4-17-04 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial MJS Date 4-17-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial MJS Date 4-17-04 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.
1MDGAE04 REV COVER	4-500-19-515-002	9-20016-02-1		
1MDGAE04 INLET SPOOL.	4-305-19-215-019	9-20016-02-1		
1MDGAE04 REV. SPOOL	4-321-19-815-008	9-20016-02-1		
1MDGAE04 INLET COVER	4-500-19-215-001	9-20016-02-1		

19. Planner Martin J. Sullivan 4-17-04 Printed Name: Martin J. Sullivan
Signature Date
20. ISI R L Browning 4-18-04 Printed Name: R.L. Browning
Signature Date
21. ANII R G Hogstrom 4-18-04 Printed Name: R.G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/17/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609604

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: 1MDGAE04

5. (a) Applicable Construction Code ASME Section III ~~NF~~, Class 3 1974 Edition, Summer 1976 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG "A"L.O. cooler	American Standard	9-20016-~~01-2~~ 02-1	31980	1MDGAE04	1978	Repaired	YES

7. Description of Work: Weld build up of corroded wall of the cooler, and covers.

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.

FORM NIS-2 (Back)

Remarks: WELD REPAIR OF BASE METAL W.O. # 2609604

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: Allan Monroe ISI Engineer Date: 4/27/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 4-18-04 to 4-27-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R J Hyatt
Inspectors Signature

Commissions: **NB 9685 "N" "I" AZ264**
National Board, State, Province, and Endorsements

Date: 4-27-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page of

1. Component ID 1MDGBE04 2. Code Class ASME Secton III Class 3
3. Item Description: LUBE OIL COOLER
4. N-5 Data Package Number: 1DG02-8 5. W.O. Number: 2609605
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: REPAIR BASE METAL WITH WELD BUILD UP
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
WELD BUILD UP OF BASE MATERIAL REQUIRED DUE TO EXCEEDING MINIMUM WALL THICKNESS, REPAIRED AREAS TO BE PROTECTED WITH COATINGS.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer 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 RLB 4-8-04

Initial MJS Date 4-8-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial MJS Date 4-8-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial MJS Date 4-8-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial MJS Date 4-8-04 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.
1MDGBE04 REV. COVER	4-500-19-215-001	9-20016-02-4		

19. Planner MJS 4-8-04 Printed Name: Martin J. Sullivan
Signature Date

20. ISI RLB 4-8-04 Printed Name: R.L. BROWNING
Signature Date

21. ANII RG Hogstrom 4-8-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/08/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609605

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: 1MDGBE04 PCR 4-8-04

5. (a) Applicable Construction Code ASME Section III NF, Class 3 1974 Edition, Summer 1976 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG "B" lube oil cooler	American Standard	9-20016-02-4	~~31979~~ 33119	1MDGBE04	~~1978~~ 1979	Repaired	YES

7. Description of Work: Weld build up of corroded base metal of the cooler reversing cover.

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.

FORM NIS-2 (Back)

9. Remarks: WELD REPAIR OF BASE METAL ON THE REVERSING COVER W.O. # 2609605

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: for R.L. BROWN INC RLB ISI ENG Date: 4-16-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-8-04 to 4-16-04, 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.

RJ Hyton
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-16-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSGEPSV0574 2. Code Class ASME Section III Class 2
3. Item Description: Main Stean Safety Valve; Dresser 6" 3707RAX-RT-25; 1315 psig
4. N-5 Data Package Number: 1SG01-6 5. W.O. Number: 2609622
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replacement of main steam safety valve with reconditioned and tested spare.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DWG Date 3-18-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DWG Date 3-18-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DWG Date 3-18-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DWG Date 3-18-04 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.
1JSGEPSV0574	APN 45003638	BT-01680	N/A	MR 853488

19. Planner David Goodlet 3-18-04 Printed Name: David Goodlet
Signature Date

20. ISI R P Indap 3-30-04 Printed Name: R. P. INDAP
Signature Date

21. ANII R G Hogstrom 4-1-04 Printed Name: R.G. HOGSTROM
Signature Date

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSGEPSV0561 2. Code Class ASME Section III Class 2
3. Item Description: Main Steam Safety Valve; Dresser 6" 3707RAX-RT-25; 1250 psig
4. N-5 Data Package Number: 1SG02-6 5. W.O. Number: 2609622
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replacement of main steam safety valve with reconditioned and tested spare.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon thermography testing.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 4-14-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 4-14-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 4-14-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 4-14-04 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.
1JSGEPSV0561	APN 45003640	BS-08620	N/A	MR 853491

19. Planner David Goodlet 4-14-2004 Printed Name: David Goodlet
Signature Date

20. ISI Alan Morrow 4/14/04 Printed Name: Alan Morrow
Signature Date

21. ANII R B Ingram 4-14-04 Printed Name: Robert G. Hagstrom
Signature Date

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSGEPSV0691 2. Code Class ASME Section III Class 2
3. Item Description: Main Stean Safety Valve; Dresser 6" 3707RAX-RT-25; 1315 psig
4. N-5 Data Package Number: 1SG01-6 5. W.O. Number: 2609622
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replacement of main steam safety valve with reconditioned and tested spare.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon thermography testing.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DaG Date 4-14-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DaG Date 4-14-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DaG Date 4-14-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DaG Date 4-14-04 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.
1JSGEPSV0691	APN 45003638	BS-08583	N/A	MR 853489

19. Planner David Goodlet 4-14-2004 Printed Name: David Goodlet
Signature Date

20. ISI Alan Morrow 4/14/04 Printed Name: Alan Morrow
Signature Date

21. ANII RG Hogstrom 4-14-04 Printed Name: RG Hogstrom
Signature Date

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSGEPSV0573 2. Code Class ASME Section III Class 2
3. Item Description: Main Stean Safety Valve; Dresser 6" 3707RAX-RT-25; 1290 psig
4. N-5 Data Package Number: 1SG01-6 5. W.O. Number: 2609622
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replacement of main steam safety valve with reconditioned and tested spare.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon thermography testing.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 4-14-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 4-14-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 4-14-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 4-14-04 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.
1JSGEPSV0573	APN 45003639	BT-01683	N/A	MR 853490

19. Planner [signature] 4-14-2004 Printed Name: David Goodlet
Signature Date

20. ISI [signature] 4/14/04 Printed Name: Alan Morrow
Signature Date

21. ANII [signature] 4-14-04 Printed Name: RG 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: 04/14/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2609622

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Safety Valve	Dresser	BT-01680	n/a	1JSGEPSV574	1979	Replacement	YES
Safety Valve	Dresser	BS-08620	n/a	1JSGEPSV561	1981	Replacement	YES
Safety Valve	Dresser	BS-08583	n/a	1JSGEPSV691	1978	Replacement	YES
Safety Valve	Dresser	BT-01683	n/a	1JSGEPSV573	1979	Replacement	YES

7. Description of Work: Replace four (4) Main Steam Safety Valves with reconditioned & tested spares.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2609622 will be used to replaced four (4) main steam safety valves 1JSGEPSV0574, 561, 691 & 573.

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: Alan Monroe FSI Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-1-04 to 5-7-04, 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.

RB Fenton
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1JRCEPV0100F
2. Item Description: Pressurizer Spray Control Valve
3. N-5 Data Package Number: 1RC01-19 4. W.O. Number: 2615478
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description:
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

   No failure of ASME III pressure boundry. The stem needs to be replaced. Replacing the plug/stem assembly is an ALARA effort.

10. Repair/Replacement Work Organization: Arizona Public Service BV 12/3/03
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 ~~Winter Addenda~~ S'76
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 12/3/03 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial BV Date 12/3/03 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 12/3/03 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 12/3/03 17. 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.
Plug/stem assy	AC8402-1 ~~AC8402-2~~ BV 5/4/04	AC8402-1 ~~AC8402-2~~ BV 5/4/04	721044	168840

18. Planner Barbara Vidal 12/3/03 Printed Name: Barbara Vidal
    Signature Date
19. ISI R P Indap 12/3/03 Printed Name: R. P. INDAP
    Signature Date
20. ANII RG Hogstrom 12-3-03 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 12/03/2003

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2615478

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC - Reactor Coolant System

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Summer 1976 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Plug/stem assy	Fisher	AC8402-1	N/A	1JRCEPV0100F	2003	Replacement	YES

7. Description of Work: Replace plug/stem assembly

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2615478 No failure of ASME III pressure boundry. The stem needs to be replaced. Replacing the plug/stem assembly is an ALARA effort.

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: RPmdap, Consulting Metallurgical Engineer Date: 5/3/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 12-3-03 to 5-4-04 . 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.

RB Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-4-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1PRCEV240
2.. Item Description: RCE-PV100E Inlet Isolation Valve
3. N-5 Data Package Number: 1RC01-1 4. W.O. Number: 2626507
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace Bonnet Retainer as part of maintenance.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of ASME III pressure boundry. The bonnet retainer needs to be replaced as a part of routine maintenance
RPIndap 4/16/04

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 4/16/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial BV Date 4/16/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 4/16/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 4/16/04 17. 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.
Bonnet Retainer	APN 45151392	N/A	3H48	853993

18. Planner B Vidal 4/16/04 Printed Name: Barbara Vidal
Signature Date

19. ISI RPIndap 4/16/04 Printed Name: R.P. Indap
Signature Date

20. ANII RG Hogstrom 4-16-04 Printed Name: R.G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 4/16/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2626507

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Bonnet Retainer	Borg Warner	HT No. 3H48	N/A	1PRCEV240	2004	Replacement	NO

7. Description of Work: Replacement of bonnet retainer as part of maintenance.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2626507. Replacement of bonnet retainer as part of routine maintenance.

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: Alan Monow IST Engineer Date: 5/7/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-16-04 to 5-7-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R B Hylton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 5-7-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1MCHAX07 2. Code Class ASME Section III Class 2
3. Item Description: Charging pump pulsation dampner
4. N-5 Data Package Number: 1CH04-1 5. W.O. Number: 2656261
6. Original Construction Code Edition: 1977 Edition, Winter 1977 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Weld build-up of scratches or grooves in the bore of the flange block caused during previous disassembly.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a failure of the code pressure boundary.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1977 Edition, 1977 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition, 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 12-10-03 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 12-10-03 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 12-10-03 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 12-10-03 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.
1MCHAX07	N/A	6125	N/A	N/A

19. Planner David Goodlet 12-10-2003 Printed Name: David Goodlet
Signature Date

20. ISI Alan Morrow 12/11/03 Printed Name: Alan Morrow
Signature Date

21. ANII RG Hogstrom 12-11-03 Printed Name: Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. 12/10/2003

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2656261

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: CH; Charging and volumn control system

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1977 Edition, Winter 1977 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Flange Block	Greer Hydraulics	6125	N/A	1MCHAX07	1980	Repaired	YES

7. Description of Work: Weld build-up of scratches or grooves in the bore of the flange block caused during previous disassembly.

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.

FORM NIS-2 (Back)

9. Remarks: WO# 2656261 for pulsation dampener. Weld repair to scratches or grooves in flange block caused during previous disassembly.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R.L. Bronsing ISI Engr Date: 3-13-04 RLB

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 12-11-03 to 3-12-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 3-12-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID S/N: BT-01680 2. Code Class ASME Section III Class 2
3. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1315 psig
4. N-5 Data Package Number: n/a 5. W.O. Number: 2660178
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 & testing of spare valve. Code part replacement from other spare valves or from 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 IWA - 4150:

No failure in the ASME Section III boundary. The disc will be replaced with preoxidized ASME SB637 OR ASTM B637 INCONEL X-750 material to enhance performance.

11. Repair/Replacement Work Organization: **NWS Technologies**
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 1-5-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 1-5-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 1-5-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 1-5-04 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.
DISC	Apn# 00064290	ADG 42	N/A	PO# 500238999

19. Planner [signature] 1-5-2004 Printed Name: David Goodlet
Signature Date

20. ISI [signature] 1-6-2004 Printed Name: R. P. INDAP
Signature Date

21. ANII RG HOGSTROM 1-6-04 Printed Name: RG 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: 01/05/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2660178

3. Work Performed by: NWS Technologies Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Disc	Dresser	ADG42	N/A	1JSGEPSV574	2004	Replaced	NO

7. Description of Work: Overhaul & testing of spare Main Steam Safety Valve S/N BT-01680

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.

FORM NIS-2 (Back)

9. Remarks: Work Order# 2660178 for off-site disassembly, inspection, reconditioning and testing of spare Main Steam Safety Valve; s/n# BT-01680. A new design Disc will be installed to enhance performance.

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: R Pindar, Consulting Metallurgical Engineer Date: 3/30/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 1-6-04 to 4-1-04, 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.

RD Hayton
Inspectors Signature

Commissions: NB 9685 "N" "T" AZ264
National Board, State, Province, and Endorsements

Date: 4-1-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1JRCEPSV0200
2. Item Description: Pressurizer Safety Relief Valve
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2660182
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Valve rotation to perform offsite testing and rework per WO 2660182
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

No failure of ASME pressure boundary. Valve is being rotated to perform testing. Replacement valve is SN BS08614
Replacement of spring assembly is a routine maintenance.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition, Summer 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial BV Date 3/24/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ~~☒ YES~~ RPR 3/25/04 ☒ NO

Initial BV Date 3/24/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial BV Date 3/24/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial BV Date 3/24/04 17. 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.
1JRCEPSV0200	N/A	BS-08614	N/A	N/A
Spring Assembly	APN 00066798	96565-3	N/A	MR 735255

18. Planner Barbara Vidal 3/24/04 Printed Name: Barbara Vidal
Signature Date

19. ISI RPindap 3/25/04 Printed Name: R. P. INDAP
Signature Date

20. ANII [signature] 3-25-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 03/25/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2660182

3. Work Performed by: NWS Technologies Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Spring	Dresser	96565-3	N/A	1JRCEPSV0200	2004	Replacement	No

7. Description of Work: Valve rotation to perform offsite testing and rework per W.O. 2660182

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.

FORM NIS-2 (Back)

9. RemarksW.O. 2660182. Valve rotation to perform offsite testing and rework as part of routine maintenance. Valve s/n BS08614.

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: R Pindiprolu, Consulting Metallurgical Engineer Date: 3/25/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-25-04 to 3-25-04, 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.

RS [signature]
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 3-25-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JSIBUV0616
2. Item Description: 2 INCH Y GLOBE VALVE (BORG WARNER)
3. N-5 Data Package Number: 1RC01-5 4. W.O. Number: 2663388
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: DISSASSEMBLE VALVE, INSPECT INTERNALS FOR CAUSE OF SEAT LEAKAGE , POSSIBLE STEM & DICK REPLACEMENT
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
   SEAT LEAKAGE: NO FAILURE IN ASME PRESSURE RETAINING BOUNDARY

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial GEO Date 4/23/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial GEO Date 3/24/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial GEO Date 3/24/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial GEO Date 3/24/04 17. 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.

18. Planner G Osmundson 3/24/04 Printed Name: G. OSMUNDSON
    Signature Date
19. ISI R P Indap 3/24/04 Printed Name: R.P. INDAP
    Signature Date
20. ANII R G Hogstrom 3-24-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 03/24/04

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2663388

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: SI

5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)

7. Description of Work: DISASSEMBLE VALVE, INSPECT INTERNALS FOR CAUSE OF SEAT LEAKAGE, LAPPED AND POLISHED SEATING SURFACES, REPERFORMED BONNET SEAL WELD

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.

FORM NIS-2 (Back)

). Remarks: wo 2663388 , disassembled valve , lapped and polished seating surfaces.(no parts replaced) reperformed body to bonnet seal weld .

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: R.L. Brown RLB 1st Engr Date: 4-24-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by **HSB CT** of **Hartford, Connecticut**, have inspected the components described in this Owner's report during the period of 3-24-04 to 4-24-04, 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.

RJ Hyatt
Inspectors Signature

Commissions: **NB 9685 "N" "I" AZ264**
National Board, State, Province, and Endorsements

Date: 4-24-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page 1 of 1

1. Component ID 1PSIAV056
3. Item Description: "A" Train HPSI Header Drain Valve
4. N-5 Data Package Number: 1RC01-1C 5. W.O. Number: 2669420
6. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Replace the valve and piping.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Upstream weld between pipe and valve appears to have a crack. Replacement welds have 2 to 1 taper weld to improve its fatigue strength. RPE 2/4/04
11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial J.D Date 2-4-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial J.D Date 2-4-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial J.D. Date 2-4-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial J.D Date 2-4-04 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.
Valve	APN 45000244	E489R-1-3	N/A	MR 829200
Pipe	APN 43510515	N/A	449272	MR 829200
Flange	APN 43580811	N/A	187WNE	MR 829200

19. Planner [signature] 2-4-04 Printed Name: James I. Davis
Signature Date

20. ISI [signature] 2/4/04 Printed Name: R.P. Zindap
Signature Date

21. ANII [signature] 2-4-04 Printed Name: R.G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 02/06/04

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2669420

3. Work Performed by: Arizona Public Service Co. Type of Code Stamp None

5801 S. Wintersburg Rd., Tonopah, Az 85354-7529 Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 1975 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Flowserve	E489R-1-3	N/A	1PSIAV056	2001	Replacement	Yes
Pipe	N/A	N/A	N/A	1PSIAL248	2004	Replacement	No
Flange	N/A	N/A	N/A	1PSIAL248	2004	Replacement	No

7. Description of Work: Replace the valve and piping, and modified existing socket welds on this drain line to give 2 to 1 taper.

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.

FORM NIS-2 (Back)

9. Remarks: WO 2669420 replaced valve 1PSIAV056 and the associated piping due to a leak the valve inlet .

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: R Pradeep, Consulting Metallurgical Engineer Date: 2-6-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 2-4-04 to 2-6-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R K Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 2-6-04

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSIEV247 2. Code Class 1
3. Item Description SIT 1B Discharge Check Valve to RC Loop 1B
4. N-5 Package Number 1RC01-1C 5. W.O. Number 2685285
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace valve parts as needed to correct seat leakage and binding.
9. ☐ ISI Flaw NDE Method of Flaw Detection N/A
Report Number N/A
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
No structural failure within the ASME boundary. Replacement is to correct seat leakage and binding.
11. Repair/Replacement Work Organization Arizona Public Service Co.
12. Replacement Item Construction or reconciled Code/Edition 1974 Edition, Winter 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition, Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO
J.D Initial 3-24-04 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
J.D Initial 3-24-04 Date If required, include a step in the W.O. for ISI & ANII Inspection.
J.D Initial 3-24-04 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
J.D Initial 3-24-04 Date 18. Include a step in the W.O. to record below all applicable numbers for replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.
DISC ASSEMBLY	75913	211972-1	N/A	60203793

19. Planner [signature] 3-24-04 Signature Date Print Name James I. Davis
20. ISI Engineer [signature] 3/24/04 Signature Date Print Name Ramakant P. Indap
21. ANII [signature] 3-24-04 Signature Date Print Name Robert G. Hogstrom

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2685285

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Safety Injection (SI)

5. (a) Applicable Construction Code ASME Section III NB, Class 1 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Borg Warner	26222	N/A	1PSIEV247	1977	Repaired	YES
Disc Assy	Borg Warner	211972-1	N/A	1PSIEV247	2004	Replacement	NO

7. Description of Work: Replace the Disc assembly to to correct leakage and binding.

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.

FORM NIS-2 (Back)

9. Remarks: WO #2685285, Replaced the disc assembly to address seat leakage and binding.

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: Bob Browning per telecon 5/8/04 Date:

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-24-04 to 5-8-04, 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.

RJ Hylton

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: 5-8-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JRCBHV-109
2. Item Description: PRESSURIZER VENT VALVE TO RDT
3. N-5 Data Package Number: 1RC03-2 4. W.O. Number: 2686607
5. Original Construction Code Edition: 1977 Edition, Winter 1978 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Replace internal parts to correct seat leakage.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
   "No pressure Boundary failure - Like for Like parts Replacement

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl. 1, 1989 Edition No Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial GEO Date 4/21/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial GEO Date 4/21/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial GEO Date 4/21/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial GEO Date 4/21/04 17. 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.
Main Disc	APN 00055319	203	N/A	854782

18. Planner G Osmundson 4/21/04 Printed Name: G. OSMUNDSON
    Signature Date
19. ISI R L B 4/21/04 Printed Name: R.L. BROWNING
    Signature Date
20. ANII R G Hogstrom 4-21-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/21/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2686607

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC ASME Section III Class 1

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Main Disc	Target Rock	203	N/A	1JRCBHV109	2002	Replacement	YES

7. Description of Work: Replace valve internals to correct seat leakage.

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.

FORM NIS-2 (Back)

Remarks: Replacement of main disc, WO# 2686607.

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: R.L. Brown IX ISI ENG Date: 4-30-04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-21-04 to 4-30-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-30-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1MEWBE01
2.. Item Description: ESSENTIAL COOLING WATER HEAT EXCHANGER
3. N-5 Data Package Number: 1EW02-1 4. W.O. Number: 2687856
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Perform base material weld repairs on the Channel Heads and Channel Head Covers of the Essential Cooling Water (EW) Heat exchanger, as identified by Engineering.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

ENGINEERING INSPECTION DETERMINED WELD REPAIRS REQUIRED PRIOR TO RE-COATING. THERE WAS NO FAILURE OF THE PRESSURE BOUNDARY.

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial HH Date 4/9/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☒ YES ☐ NO

Initial HH Date 4/9/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial HH Date 4/9/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial N/A Date 4/9/04 17. 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.
1MEWBE01	N/A	N/A	N/A	N/A

18. Planner [signature] 4/9/04 Printed Name: Herbert Green
Signature Date

19. ISI [signature] 4-11-04 Printed Name: Robert Browning
Signature Date

20. ANII [signature] 4-11-04 Printed 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: 04/09/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2687856

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Essential Cooling Water (EW)

5. (a) Applicable Construction Code ASME Section III ND, Class 3 1974 Edition, Winter 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
EW Heat Exchanger	Struther Wells Corporation	17606329132	14441	1MEWBE01	1978	Repaired	YES

7. Description of Work: Perform base material weld repairs on the Channel Heads and Channel Head Covers of the Essential Cooling Water (EW) Heat exchanger, as identified by Engineering.

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.

FORM NIS-2 (Back)

9. Remarks: ____

W.O. 2687856

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: [signature] 1ST ENGINEER Date: 4-16-04

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-11-04 to 4-16-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature]

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: 4-16-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1JRCEPSV0203
2.. Item Description: Pressurizer Relief Valves
3. N-5 Data Package Number: 1RC03-2 & 3RC03-3 4. W.O. Number: 2689459
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda
6. Original Installation Code Edition: ~~1971 Edition, Winter 1973 Addenda~~ 4-28-04 1974 Edition, Winter 1975 Addenda
7. Work Description: Cut off Capped PSV Leak Off Line and Weld New Cap on the Shortened Line
8. ☐ ISI Flaw NDE Method of Flaw Detection: N/A
Report Number: N/A
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
No Failure of the ASME Sec III Code Boundry

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec.III Cl 1, 1974 Edition 1975 Summer Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial KVS Date 4/26/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial KVS Date 4/26/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial KVS Date 4/26/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial KVS Date 4/26/04 17. 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.
1JRCEPSV0203	N/A	BS08567	N/A	N/A
1/2" Pipe Cap	APN 43550865	N/A	HUV	MR 850639

18. Planner [signature] 4/26/04 Printed Name: Karl V. Savage
Signature Date

19. ISI [signature] 4/27/04 Printed Name: R.P. RANDAP
Signature Date previously approved on 4/12/04

20. ANII [signature] 4-28-04 Printed Name: R.G. HOGSTROM
Signature previously approved on Date 4-12-04

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: 04/26/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2689459

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: RC Reactor Coolant

5. (a) Applicable Construction Code ASME Section III,Div 1 Class1 1974 Edition, S'75 Addenda, 1711 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
1JRCEPSV0203	Dresser	BS08567	N/A		1978	Repaired	YES

7. Description of Work: Cut Off Capped Leak Off Line and Installed New Cap on the shortened Leak Off Line.

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.

FORM NIS-2 (Back)

Remarks: Work Order 2689459: Cut Off Capped Leak Off Line and Installed New Cap on the Shortened Leak Off Line.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: A Pindar, Consulting Metallurgical Engineer Date: 4/27/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-12-04 to 4-28-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R J Hyatt
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-28-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1SI248H00A
3. Item Description: Pipe support for "A" Train HPSI Header Drain Valve 1PSIAV056
4. N-5 Data Package Number: 1RC01-1C 5. W.O. Number: 2691334
6. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda
7. Original Installation Code Edition: 1971 Edition, Winter 1973 Addenda
8. Work Description: Repair the hanger per DFWO 2691331.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
The broken portion of the hanger was removed per DFWO 2691331. Replacement or reinstallation, if required, will be performed after Engineering Root Cause Analysis.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III NF Cl 1, 1974 Edition Winter 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III NF Cl 1, 1974 Edition Winter 1974 Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO
Initial N/A J.D Date 3-19-04 If required, include a step in the W.O. to perform Preservice Inspection
16. ASME Section XI Pressure Test Required: ☐ YES ☒ NO
Initial N/A J.D Date 3-19-04 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial N/A J.D Date 3-19-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial N/A J.D Date 3-19-04 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.

19. Planner J. I. Davis 3-19-04 Printed Name: James I. Davis
Signature Date
20. ISI _____ Printed Name: J.O 3-19-04 R. INDAI PER TRECON
Signature Date
21. ANII _____ Printed Name: J.O 3-19-04 R. HOGSTROM PER TRECON
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: 03/19/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2691334

3. Work Performed by: Arizona Public Service Type of Code Stamp None

Authorization No. N/A

Expiration Date N/A

4. Identification of System: Safety Injection

5. (a) Applicable Construction Code ASME Section III NF, Class 1 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 Components Repaired or Replaced and 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)
Pipe Hanger	N/A	N/A	N/A	1SI248H00A	N/A	Repaired	NO

7. Description of Work: Repair the hanger per DFWO 2691331 .

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.

FORM NIS-2 (Back)

9. Remarks: WO 2691334 removed the clamp portions of the hanger per DFWO 2691331.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: RPhadke, Consulting Metallurgical Engineer Date: 3/24/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-19-04 to 3-24-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature]
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 3-24-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1JCHNPSV0345 2. Code Class ASME Section III Class 2
3. Item Description: Crosby relief valve
4. N-5 Data Package Number: 1CH13-1 5. W.O. Number: 2694617
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Remove valve and install spare, existing valve lifted mulitiple times during plant shutdown.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:
Not a pressure boundary failure. Valve is being replaced due to muliple actuations during plant shutdown..

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1976 Summer Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMG Date 4-6-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMG Date 4-6-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMG Date 4-6-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMG Date 4-6-04 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.
1JCHNPSV0345	APN 45000476	N61180-00-0005 ~~N61180-01~~	n/a	WO 2560825
				OR MR# 852430

19. Planner David Goodlet 4-6-2004 Printed Name: David Goodlet
Signature Date

20. ISI Alan Morrow 4/6/04 Printed Name: Alan Morrow
Signature Date

21. ANII RG Hogstrom 4-6-04 Printed 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: 04/06/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2694617

3. Work Performed by: Arizona Public Service Type of Code Stamp None

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 1976 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Crosby	N61180-00-0005	n/a	1JCHNPSV-0345	1984	Replacement	YES

7. Description of Work: Installed spare valve due to existing valve lifting multiple times during plant shutdown.

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.

FORM NIS-2 (Back)

7. Remarks: Valve 1JCHNPSV0345 was replaced with spare under wo# 2694617 due to existing valve lifting multiple times during plant shutdown.

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: Alan Monow SrISI Engineer Date: 5/6/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-6-04 to 5-6-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-6-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID S/N: BS-08583 2. Code Class ASME Section III Class 2
3. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1315 psig
4. N-5 Data Package Number: n/a 5. W.O. Number: 2694975
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 & testing of spare valve. Code part replacement from other spare valves or from 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 IWA - 4150:

No failure in the ASME Section III boundary. The disc will be replaced with preoxidized ASME SB637 OR ASTM B637 INCONEL X-750 material to enhance performance.

11. Repair/Replacement Work Organization: **NWS Technologies**
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial _____ Date 4-19-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial _____ Date 4-19-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial _____ Date 4-19-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial _____ Date 4-19-04 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.
DISC	Apn# 00064290	ADG-48	N/A	PO# 500238999

19. Planner _____ 4-19-04 Printed Name: David Goodlet
Signature Date

20. ISI _____ 4/20/04 Printed Name: R. P. INDAP
Signature Date

21. ANII _____ 4-20-04 Printed Name: R.G. HOGSTROM
Signature Date

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID S/N: BS-08620 2. Code Class ASME Section III Class 2
3. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1250 psig
4. N-5 Data Package Number: n/a 5. W.O. Number: 2694975
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 & testing of spare valve. Code part replacement from other spare valves or from 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 IWA - 4150:

No failure in the ASME Section III boundary. The disc will be replaced with preoxidized ASME SB637 OR ASTM B637 INCONEL X-750 material to enhance performance.

11. Repair/Replacement Work Organization: NWS Technologies
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DGG Date 4-19-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DGG Date 4-19-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DGG Date 4-19-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DGG Date 4-19-04 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.
DISC	Apn# 00064290	ADG-45	N/A	PO# 500238999

19. Planner David Goodlet 4-19-04 Printed Name: David Goodlet
Signature Date

20. ISI R P Indap 4/20/04 Printed Name: R. P. INDAP
Signature Date

21. ANII R G Hostrom 4-20-04 Printed Name: R.G. HOSTROM
Signature Date

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID S/N: BT-01683 2. Code Class ASME Section III Class 2
3. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1290 psig
4. N-5 Data Package Number: n/a 5. W.O. Number: 2694975
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 & testing of spare valve. Code part replacement from other spare valves or from 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 IWA - 4150:
No failure in the ASME Section III boundary. The disc will be replaced with preoxidized ASME SB637 OR ASTM B637 INCONEL X-750 material to enhance performance. The spindle was replaced due to galling.

11. Repair/Replacement Work Organization: **NWS Technologies**
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial DMS Date 4-19-04 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial DMS Date 4-19-04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial DMS Date 4-19-04 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial DMS Date 4-19-04 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.
DISC	Apn# 00064290	ADG-46	N/A	PO# 500238999
Spindle	Apn# 45560003		A19374	PO# 33207018

19. Planner David Goodlet 4-19-04 Printed Name: David Goodlet
Signature Date

20. ISI R P Indap 4/26/04 Printed Name: R. P. INDAP
Signature Date

21. ANII [signature] 4-20-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/19/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2694975

3. Work Performed by: NWS Technologies Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Disc	Dresser	ADG-48	N/A	BS-08583	2004	Replaced	NO
Disc	Dresser	ADG-45	N/A	BS-08620	2004	Replaced	NO
Disc	Dresser	ADG-46	N/A	BT-01683	2004	Replaced	NO
Spindle	Dresser		N/A	BT-01683	2004	Replaced	NO

7. Description of Work: Overhaul & testing of spare Main Steam Safety Valves

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.

FORM NIS-2 (Back)

Remarks: Work Order# 2694975 for off-site disassembly, inspection, reconditioning and testing of spare Main Steam Safety Valves; s/n# BT-01683, BS-08620 & BS-08583. A new design Disc will be installed to enhance performance. A spindle was replaced due to galling.

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: RPMdep, Consulting Metallurgical Engineer Date: 4/22/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-20-04 to 4-23-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[signature]
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-23-04

ASME SECTION XI – REPAIR / REPLACEMENT

1. Component ID 1PSIAV056/1PSIAL248
2. Item Description: "A" Train HPSI Header Drain Valve
3. N-5 Data Package Number: 1RC01-1C 4. W.O. Number: 2695338
5. Original Construction Code Edition: Section III Cl1, 1974 Edition, Winter 1975 Addenda
6. Original Installation Code Edition: Section III Cl1, 1974 Edition, Winter 1975 Addenda
7. Work Description: See Item 9 for Work Description.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

   1. 2:1 Taper being added to existing welds per EDC# 2004-00324. 2. Line with drain valve 1PSIAV056 is being shortened per the EDC. 3. ~~Removing Snubber 1SI245H00L.~~ RPI 4/30/04

   EVALUATION - These changes being made in response to the fatigue failure of the upstream weld on 1PSIAV056. More details per Eng-DM 2692447, EDC# 2004-00324..

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: Sec III CL, 1974 Edition, Winter 1975 Addenda
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial KVS Date 4/16/04 If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial KVS Date 4/16/04 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial KVS Date 4/16/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial KVS Date 4/16/04 17. 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.

18. Planner Karl V. Savage 4/16/2001 Printed Name: Karl V. Savage
    Signature Date
19. ISI RP Indap 4/16/04 Printed Name: R.P. INDAP
    Signature Date
20. ANII [signature] 4-16-04 Printed Name: R.G. HOGSTROM
    Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 04/30/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2695338

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: SI: Safety Injection

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 1975 Addenda, n/a Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
1PSIAL240-1"	n/a	n/a	n/a	n/a	n/a	Repaired	NO
1PSIAL248-1"	n/a	n/a	n/a	n/a	n/a	Repaired	NO

7. Description of Work: Changes to piping and supports adjacent to 1JSIAUV651 in response to Weld failure.

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.

FORM NIS-2 (Back)

Remarks: Work Order# 2695338, 1. Drain line containing 1PSIAV056 shortened to mitigate the affects of vibration. 2. 2:1 taper added to existing welds on lines 1PSIAL240 and 1PSIAL248 per EDC# 2004-00324 and DMWOI# 2692447.

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: R P Bridger, Consulting Metallurgical Engineer Date: 4/30/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-16-04 to 5-1-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

R D Hylton
Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 5-1-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID 1PSIAV997
2. Item Description: Press lock prevention check valve
3. N-5 Data Package Number: None available 4. W.O. Number: 2703909
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
7. Work Description: Seal weld Body / Cover joint after seat repair.
8. ☐ ISI Flaw NDE Method of Flaw Detection:
   Report Number:
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

NO PRESSURE BOUNDARY FAILURE

10. Repair/Replacement Work Organization: Arizona Public Service
11. Replacement Items Construction or reconciled Code/Edition: ~~N/A~~ 1974 Summer 1976
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
14. Preservice Inspection Required: ☐ YES ☒ NO

Initial ___DWS__ Date _04/25/2004__ If required, include a step in the W.O. to perform Preservice Inspection

15. ASME Section XI Pressure Test Required: ☐ YES ☒ NO

Initial ___N/A___ Date _____ If required, include a step in the W.O. for ISI & ANII Inspection.

Initial ___DWS___ Date _04/25/2004 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial ___DWS___ Date _04/25/2004_ 17. 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.
1PSIAV997	APN 45004448	96SN0403	N/A	WO 1008658

18. Planner D W Shaffer 4/25/04 Printed Name: David Shaffer
    Signature Date

19. ISI WILEY AHLSTROM 4-25-04 Printed Name: WILEY AHLSTROM
    Signature Date

20. ANII Bob Hogstrom per telecon Steven Eich 4-25-04 Printed Name: Bob Hogstrom per telecon Steven Eich
    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: 4-30-04

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2703909

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   Authorization No. N/A

   Expiration Date N/A

4. Identification of System: Safety Injection (SI)

5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, S '76 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Check Valve	Kerotest	96SN0403	N/A	1PSIAV997	N/A	Repaired	YES

7. Description of Work: Seal weld body /cover joint after seat repair to correct identified leakage.

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.

FORM NIS-2 (Back)

9. Remarks: WO 2703909, Seal weld body/cover joint after repair seating surfaces.

Certificate of Compliance

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

Type Code Symbol Stamp N/A

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

Signed: RL Browning ISI ENG Date: 4/30/04
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-25-04 to 4-30-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264
National Board, State, Province, and Endorsements

Date: 4-30-04

ASME SECTION XI – REPAIR / REPLACEMENT

Page _____ of _____

1. Component ID S/N N61180-00-0008 ~~-01-0009~~ Dmg 5-11-04 2. Code Class ASME Section III Class 2
3. Item Description: Crosby relief valve
4. N-5 Data Package Number: 1CH13-1 5. W.O. Number: 2704509
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda
8. Work Description: Disassemble and rework spare valve, replace parts as necessary and then test iaw 73ST-9ZZ20.
9. ☐ ISI Flaw NDE Method of Flaw Detection:
Report Number:
10. Evaluation of the suitability of this work as per the requirements of IWA - 4150:

Not a pressure boundary failure. Parts are being replaced to correct seat leakage identified during testing..

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1976 Summer Addenda
13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda
14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda
15. Preservice Inspection Required: ☐ YES ☒ NO

Initial Dmg Date 5-3-2004 If required, include a step in the W.O. to perform Preservice Inspection

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

Initial Dmg Date 5-3-2004 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial Dmg Date 5-3-2004 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial Dmg Date 5-3-2004 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.
Nozzle	APN 45070039	N92031-42D20	N/A	MR 859407
Disc Insert	APN 45630021	N92032-38-0016	N/A	MR 859407

19. Planner David Goodlet 5-3-2004 Printed Name: David Goodlet
Signature Date

20. ISI RPIndap 5-4-04 Printed Name: R. P. INDAP
Signature Date

21. ANII RG Hogstrom 5-4-04 Printed Name: R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 05/03/2004

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

2. Plant: Palo Verde Nuclear Generating Station Unit: 1

   5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2704509

3. Work Performed by: Arizona Public Service Type of Code Stamp None

   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 1976 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.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Nozzle	Tyco Valves	N92031-42-0020	NO	CH-PSV0345	2004	Replacement	NO
Disc Insert	Tyco valves	N92032-38-0016	NO	CH-PSV0345	2004	Replacement	NO

7. Description of Work: Rework spare valve, s/n# N61180-01-0009, to correct seat leakage. Replace parts as necessary.

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

   Other ☐ Pressure _____ psi Test Temperature _____ °F

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FORM NIS-2 (Back)

9. Remarks: WO# 2704509 for overhaul of spare valve, s/n# N61180-01-0009. Valve was removed from 1JCHNPSV0345 location during 1R11 and will be stored as "SPARE" for future use. Nozzle and disc insert is being replaced to correct seat leakage identified during testing.

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: Alan Monroe ISI Engineer Date: 5/11/04

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 5-4-04 to 5-11-04, 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.

Inspectors Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

Date: 5-11-04