APS

Palo Verde Nuclear
Generating Station

David Mauldin
Vice President
Nuclear Engineering
and Support

TEL (623) 393-5553
FAX (623) 393-6077

Mail Station 7605
P.O. Box 52034
Phoenix, AZ 85072-2034

10CFR50.55a

102-04405–CDM/AKK/RKB
February 8, 2000

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 – Eighth Refueling Outage (U1R8)
Inservice Inspection (ISI) Summary Report

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, 1989 Edition, Arizona Public Service Company (APS) hereby submits the PVNGS Unit 1 Inservice Inspection Report for the eighth refueling outage, provided in enclosure 1. In addition, enclosure 2 contains the ISI summary report for the first interval reactor vessel exams and reactor head vent system exams performed during U1R8 pursuant to Relief Request Nos. 10 and 11, respectively. Relief Request No. 10 to defer the reactor vessel exams to the first outage of the second 10-year interval has been previously approved by the NRC Staff. Relief Request No. 11 to defer the reactor head vent system exams has been submitted and is pending NRC Staff approval.

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

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

Sincerely,

David Mauldin

CDM/AKK/RKB/mah

Enclosure

A047

cc: E. W. Merschoff [Region IV Administrator]
M. B. Fields [NRR Project Manager]
J. H. Moorman [Senior Resident Inspector]

ENCLOSURE 1

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT

EIGHTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

INSERVICE INSPECTION REPORT

EIGHTH REFUELING OUTAGE

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

PREPARED BY: _____ DATE: 1/21/00

REVIEWED BY: _____ DATE: 1-25-00

APPROVED BY: _____ DATE: 1/27/00

COMMERCIAL SERVICE DATE: 01/28/86
REPORT DATE: 01/21/00

TABLE OF CONTENTS

SECTION	PAGE
1.0 INTRODUCTION	3
2.0 EXAMINATION SUMMARY	3
3.0 EXAMINATION TECHNIQUES	4
4.0 ACCESSIBILITY	4
5.0 PERSONNEL	4
6.0 EQUIPMENT AND MATERIALS	4
7.0 REPAIRS AND REPLACEMENTS	5

APPENDICES

APPENDIX	PAGE
APPENDIX A - Inservice Inspection Summary Report	6
APPENDIX B - Inservice Inspection Code Limitations	18
APPENDIX C - Form NIS-1	20
APPENDIX D- Forms NIS-2	23

UNIT 1 INSERVICE INSPECTION REPORT

1.0 Introduction

1.1 This report is a summary of the examinations performed during the eighth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 1. This report also includes all applicable examinations conducted since the last refueling outage. This was the first refueling for Interval 2, Period 1 which was conducted from October 2, 1999 through November 9, 1999. Palo Verde Unit 1 began commercial operation on January 28, 1986.

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

1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.

2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.

1.3 This report is a summary of the Period 1, 2nd Interval exams performed during the eighth refueling outage. All of the examination report numbers listed in Appendix A for the eighth refueling and examinations performed since the last Summary Report are numbered with 99-1XXX.

2.0 Examination Summary

2.1 The evaluation of the results from the ISI examinations indicated the integrity of the systems have been maintained. All discrepancies were corrected or determined "use-as-is" in accordance with PVNGS work control practices and ASME Section XI. Any abnormal conditions detected are listed in Section 7 (Repairs and Replacements).

2.2 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

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. Any code limitations encountered during the examination 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); MQS Inspection, Inc. (MQS); or WesDyne personnel. All personnel were certified in accordance with programs written to comply with the applicable requirements of ASME Section XI. Copies of all certifications are maintained on file. The Hartford Steam Boiler Inspection and Insurance Company provided the Authorized Nuclear Inservice Inspector (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

7.1 No repairs or replacements were to be performed as a result of ISI examination during U1R8. The following is a list of items requiring corrective action as a result of the Inservice Examinations:

ZONE	WR/WO	ITEM ID	DISCREPANCY
18	N/A	RCP 2A	6 Nuts/Clamp ring with loss of metal due to boric acid corrosion
28	965913/899879	RCV241	Loose bolting
100	966080/901725	SI241H19	Spring Can settings out of tolerance

7.2 6 Nuts and the Clamp ring for Reactor Coolant Pump 2A were replaced and a pre-service examination was performed on each item.

7.3 Non pressure retaining bonnet clamp bolts were loose on RCEV241. The bolting was tightened and re-examined. (Report numbers 99-1283 & 99-1665)

7.4 The spring can settings on pipe support SI241H19 were not within 5% of the required drawing settings. Each spring can support was adjusted and re-examined. An expanded examination scope was added to the outage that consisted of adjacent supports to the rejected support along with and equal number of similar type supports within the system of the rejected support. There were only 2 supports added for the expansion. (Report numbers 99-1673 & 99-1674)

7.5 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
AHE5.51 & 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		
	51 Atmos Dump SG1	One	13	13	51-1	99-1345	99-1287		
					51-2	99-1362	99-1287		
					51-3	99-1363	99-1287		
					51-4	99-1364	99-1287		
					51-5	99-1365	99-1287		
					51-6	99-1366	99-1287		
					51-7	99-1367	99-1288		
					51-8A	99-1368	99-1288		
					51-8B	99-1369	99-1287		
					51-9	99-1370	99-1287		
					51-51	99-1371	99-1287		
					51-84	99-1346	99-1287		
					51-85	99-1347	99-1287		
	53 Steam to Aux FW	One	10	10	53-11	99-1538	99-1506		
					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		
	60 Downcomer SG1	One	9	5	60-7	99-1708	99-1646		
					60-14	99-1625	99-1646		
					60-15	99-1658	99-1646		
					60-16	99-1666	99-1646		
					60-17	99-1667	99-1646		
	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		

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
AHE 5.81 & 5.82	47 MS SG1	One	7	6	47-3	99-1359	99-1280		
					47-7	99-1358	99-1280		
					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		
B 1.22	02 Closure Head	One	33%	33%	2-4	99-1466	99-1458		Accessible Areas, RR#14
						99-1479			
						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			
						99-1480			
						99-1482			
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			
B 3.90	01 Reactor Vessel	One	2	2	1-15	*			*Separate Report by Wesdyne. Exam completed in 1R8
					1-18	*			
B 3.100	01 Reactor Vessel	One	2	2	1-15	*			
					1-18	*			
B 6.10	02 Closure Head	One	18	18	1 thru 18		99-1510	99-1589	
B 6.30	02 Closure Head	One	18	18	1 thru 18	99-1511	99-1509		
B 6.50	02 Closure Head	One	18	18	1 thru 18			99-1613	
B 6.180	16 RCP 1A	One	5	5	1 thru 5	99-1705		99-1601	
	17 RCP 1B	One	5	5	1 thru 5	99-1706		99-1603	
	18 RCP 2A	One	5	5	1 thru 5	99-1487		99-1500	
						99-1464			PSE - none installed
	19 RCP 2B	One	5	5	1 thru 5	99-1707		99-1602	
B 6.190	18 RCP 2A	When Disassembled			Flange			99-1488	
B 6.200	16 RCP 1A	One	5	5	1 thru 5			99-1601	
	17 RCP 1B	One	5	5	1 thru 5			99-1603	
	18 RCP 2A	One	5	5	1 thru 5			99-1500	Rejected 6 nuts
								99-1197	PSE 16 nuts, clamp ring
	19 RCP 2B	One	5	5	1 thru 5			99-1602	
B 7.20	05 Pressurizer	One	20	20	20 studs			99-1498	
B 7.30	03 SG1	One	40	40	40 studs			99-1492	
	04 SG2	One	40	40	40 studs			99-1493	
B 7.50	31 PZR Safeties	One	1	1	PSV200			99-1499	
					PSV201			99-1499	
					PSV202			99-1499	
					PSV203			99-1499	
	37 Charging	One	1	1	V435			99-1263	

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
B 7.60	16 RCP 1A	One	5	5	1 thru 5			99-1490	
	17 RCP 1B	One	5	5	1 thru 5			99-1491	
	18 RCP 2A	One	5	5	1 thru 5			99-1489	
	19 RCP 2B	One	5	5	1 thru 5			99-1602	
B 7.70	21 SD Cooling A	One	1	1	UV653			99-1224	
	24 SI 1B	One	1	1	V543			99-1228	
	25 SI 2A	One	1	1	V540			99-1219	
	26 SI 2B	One	1	1	V225			99-1614	
	28 PZR Spray	One	2	2	V241			99-1283	Reject
								99-1665	Re-exam
					V242			99-1283	
	31 PZR Safeties	One	1	1	PSV200			99-1713	
	32 Drain Loop 1A	One	2	2	V234			99-1588	
					V334			99-1587	
	37 Charging	One	1	1	PDV240			99-1263	
B 8.20	5 Pressurizer	One	66%	0%	5-1	99-1445			Examined 0°-240°
						99-1446			
						99-1447			
						99-1486			
B 9.11 & 9.12	06 RCS Piping	One	7	2	1-31	*			*Separate report by Wesdyne. Exams completed in U1R8
					1-34	*			
					6-7	*			
					7-7	*			
	22 SD Cooling	One	2	1	22-11	99-1600	99-1590		
					22-14	99-1599	99-1590		
	25 SI 2A	One	2	2	25-26	99-1512	99-1503		
					25-27	99-1617	99-1606		
					25-29	99-1618			
	26 SI 2B	One	2	2	26-9	99-1615	99-1586		
					26-11	99-1616	99-1586		
	29 PZR Spray	One	2	2	29-10	99-1467	99-1436		
					29-11	99-1468	99-1436		
B 9.21 & 9.22	28 PZR Spray 1A	One	4	4	28-31		99-1459		
					28-32		99-1459		
					28-39		99-1437		
					28-40		99-1437		
	30 Aux PZR Spray	One	2	2	30-7		99-1233		
					30-13		99-1233		
	32 Drain 1A	One	3	3	8-18		99-1504		
					32-1		99-1504		
					32-2		99-1504		
	37 Charging	One	5	2	37-41		99-1301		
					37-42		99-1301		
					37-43		99-1301		
	39 HPSI A	One	2	2	39-1		99-1234		
					39-5		99-1234		
B 9.32	06 RCS Piping	One	1	1	8-17		99-1505		
	22 SD Cooling	One	1	1	22-7A		99-1607		
B 9.40	32 Drain 1A	One	1	1	32-6		99-1504		
					32-8		99-1504		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 10.10	36 Letdown	One	1	1	RC91H5		99-1591		
					RC91H6		99-1591		
B 12.20	18 RCP 2A	When Disassembled			Bowl Interior			99-1497	
B 15.10,20, 30,40,50, 60,70	RCS Piping	One	ALL	ALL	Press Bound			99-1585	RR#11 & 12
								99-1647	SIBPSV169 -
								99-1711	disassembled
F 1.10	20 PZR Surge	One	2	2	RC28H1			99-1284	
					RC28H2			99-1218	
	21 SD Cooling A	One	7	3	SI240H10			99-1227	
					SI240H11			99-1226	
					SI240H13			99-1225	
	24 SI 1B	One	2	2	SI223H3			99-1230	
					SI223H4			99-1229	Snub. Reduction
	25 SI 2A	One	2	2	SI156H7			99-1221	Snub. Reduction
					SI156H9			99-1220	
	26 SI 2B	One	2	2	SI179H9			99-1223	Snub. Reduction
					SI179H11			99-1222	
	27 PZR Spray 1A	One	9	9	RC62H26			99-1209	
					RC62H27			99-1208	
					RC62H28			99-1207	
					RC62H29			99-1206	Snub. Reduction
					RC62H30			99-1205	
					RC62H31			99-1204	Snub. Reduction
					RC62H32			99-1203	
					RC62H33			99-1202	
					RC62H34			99-1262	Snub. Reduction
	28 PZR Spray 1B	One	9	8	RC17H24			99-1217	
					RC17H34			99-1216	
					RC17H36			99-1215	
					RC17H38			99-1214	
					RC17H39			99-1213	Snub. Reduction
					RC17H40			99-1212	
					RC17H41			99-1211	Snub. Reduction
					RC17H42			99-1210	
	29 PZR Spray	One	2	2	RC18H16			99-1439	
					RC18H18			99-1440	
	32 Drain 1A	One	2	2	RC60HA			99-1326	Snub. Reduction
					RC60HB			99-1327	Snub. Reduction
	36 Letdown	One	9	9	RC91H1			99-1592	
					RC91H5			99-1593	
					RC91H6			99-1594	
					RC91HB			99-1325	Snub. Reduction
					RC91HD			99-1323	
					RC91HE			99-1319	Snub. Reduction
					RC91HY			99-1321	
					RC91HZ			99-1324	
					RC91HAA			99-1322	
					RC91HAK			99-1320	

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
F 1.10	37 Charging	One	14	14	CH5H2			99-1265	Snub. Reduction
					CH5H3			99-1266	
					CH5H25			99-1267	
					CH5H26			99-1268	Snub. Reduction
					CH5H27			99-1269	
					CH5H28			99-1270	
					CH5H30			99-1271	
					CH5H34			99-1272	
					CH5H35			99-1273	
					CH5H36			99-1274	
					CH5H42			99-1275	
					CH5H43			99-1276	Snub. Reduction
					CH5H44			99-1277	
					CH5HAA			99-1264	Snub. Reduction
	39 HPSI A	One	4	4	SI248H26			99-1238	Snub. Reduction
					SI248H27			99-1237	
					SI248H28			99-1236	
					SI248H30			99-1235	Deleted
					SI248H25			99-1239	
F 1.40	5 Pressurizer	One	0	0	5-40			99-1712	
	16 RCP 1A	One	2	2	16-20			99-1259	
					16-21			99-1259	
	17 RCP 1B	One	2	2	17-20			99-1260	
					17-21			99-1260	
	18 RCP 2A	One	4	4	18-12			99-1663	
					18-13			99-1663	
					18-14			99-1663	
					18-15			99-1663	
	19 RCP 2B	One	4	4	19-12			99-1664	
					19-13			99-1664	
					19-14			99-1664	
					19-15			99-1664	
C 1.10	69 Letdown HTEXCH	One	50%	50%	69-1	99-1485			Examined 0°-180°
C 1.30	69 Letdown HTEXCH	One	50%	50%	69-2	99-1484			Examined 0°-180°
C 3.20	45 MS SG2 270	One	1	1	SG42H14		99-1430		
	71 LPSI Discharge	One	1	1	SI87H11		99-1435		
	76 CS Suction	One	1	1	SI9H4		99-1373		
	88 East Wrap	One	1	1	SI72H13		99-1516		
	89 East Wrap	One	1	1	SI194H14		99-1619		
	91 West Wrap	One	4	4	SI70H9		99-1374		
					SI70H11		99-1256		
					SI70H12		99-1456		
					SI70H16		99-1256		
	92 West Wrap	One	1	1	SI241H21		99-1605		
	100 LPSI Suction	One	1	1	SI369H1		99-1457		
C 5.11 & 5.12	70 & 73LPSI Suction A & B	One	1	1	70-58	99-1258	99-1257		
	82 & 85 SD Cooling A & B	One	2	1	72-50	99-1372	99-1316		

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
C 5.11 & 5.12	83 & 86 SD Cooling A & B	One	4	4	74-19	99-1381	99-1315		
					74-21	99-1383	99-1317		
					74-22	99-1384	99-1317		
					74-105	99-1382	99-1314		
	88 & 91 East & West Wrap	One	6	3	78-16	99-1604	99-1515		
					74-44	99-1311	99-1279		
					76-2	99-1310	99-1279		
	96,97,98,99 LPSI Loop 1A,1B, 2A, 2B	One	3	2	78-45	99-1513	99-1502		
					78-47	99-1514	99-1502		
C 5.41 & 5.42	82 & 85 SD Cooling A & B	One	1	1	72-49A		99-1316		
	88 & 91 East & West Wrap	One	1	1	74-102		99-1279		
C 5.51 & 5.52	43 MS SG1 90	One	1	1	43-2	99-1443	99-1432		
	44 MS SG1 270	One	1	1	44-1	99-1442	99-1431		
	46 MS SG2 90	One	1	1	46-25	99-1444	99-1433		
	58 Aux & Dwncmr SG1	One	1(5)	1(3)	41-39	99-1495	99-1508		()Identifies augment EXAM(IEB 79-13 & SER 83-07)
					58-1	99-1494	99-1501		
					58-12	99-1286	99-1231		
					58-13	99-1289	99-1231		
					58-16		99-1285		
					58-16A		99-1285		
	59 Aux & Dwncmr SG2	One	0(5)	0(3)	59-1	99-1496	99-1507		
					59-12	99-1292	99-1232		
					59-13	99-1293	99-1232		
					59-16		99-1198		
					59-16A		99-1198		
F 1.20	43 MS SG 1 90	One	2	2	SG36H17			99-1240	
					SG36H884			99-1242	
					SG36H885			99-1241	
	44 MS SG1 270	One	2	2	SG33H17			99-1278	
					SG33H18			99-1243	Snub. Reduction
	45 MS SG 2 270	One	1	1	SG42H14			99-1244	
	46 MS SG 2 90	One	2	2	SG45H17			99-1441	
					SG45H18			99-1463	Snub. Reduction
	47 MS SG1 270	One	1	1	SG206H1			99-1318	
	51 Atm. Dump SG1	One	1	1	SG59H6			99-1575	
	53 Steam to Aux FW	One	4	4	SG81H1			99-1679	
					SG81H2			99-1680	
					SG83H1			99-1681	
					SG83H2			99-1682	
	59 Aux & Dwncmr SG2	One	6	6	AF6H1			99-1261	
					SG11H8			99-1201	
					SG11H9			99-1246	
					SG11H10			99-1245	
					SG11H11			99-1200	
					SG11H12			99-1199	
								99-1332	
	60 Dwncmr FW SG1	One	1	1	SG200H9			99-1668	
					SG200H13			99-1669	PSE
					SG200H14			99-1670	PSE

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	61 Dwncmr FW SG2	One	0	0	SG203H13			99-1671	PSE
					SG203H14			99-1672	PSE
	62 Aux FW SG1	One	1	1	AF4H3			99-1461	
	63 Aux FW SG2	One	2	2	AF6H2			99-1462	
					AF16H1			99-1460	
	70 LPSI Suction A	One	1	1	SI67H4			99-1248	
					SI307H16			99-1428	PSE
	71 LPSI Discharge A	One	1	1	SI87H11			99-1247	
								99-1375	
	76 CS Suction A	One	1	1	SI9H4			99-1376	
								99-1438	
					SI67H1			99-1427	PSE
					SI67H3			99-1426	PSE
	77 CS Discharge A	One	4	4	SI79H1			99-1377	
					SI79H2			99-1378	
					SI79H3			99-1379	
					SI79H4			99-1380	
	79 CS Suction B	One	3	3	SI34H1			99-1517	
					SI34H2			99-1518	
					SI34H3			99-1519	
	80 CS Discharge B	One	3	3	SI119H7			99-1527	
					SI119H8			99-1528	
					SI119H9			99-1529	
	82 SD Cooling A	One	2	2	SI78H4			99-1296	
					SI78H5			99-1595	
					SI79H10			99-1297	
	83 SD Cooling A	One	4	4	SI87H9			99-1312	
					SI89H1			99-1300	
					SI89H2			99-1299	
					SI89H3			99-1298	
	85 SD Cooling B	One	3	3	SI119H10			99-1530	
					SI123H6			99-1531	
					SI123H7			99-1532	
	86 SD Cooling B	One	3	3	SI129H10			99-1406	
					SI129H11			99-1405	
					SI129H12			99-1407	
	88 East Wrap	One	8	3	SI72H11			99-1533	
					SI72H13			99-1534	
					SI72H14			99-1535	
	89 East Wrap	One	4	4	SI194H12			99-1536	
					SI194H13			99-1537	PSE/Snub. Replaced
					SI194H14			99-1640	
					SI194H23			99-1641	
	91 West Wrap	One	7	7	SI70H9			99-1255	
					SI70H10			99-1254	
					SI70H11			99-1253	
					SI70H12			99-1252	
					SI70H13			99-1249	
					SI70H15			99-1251	
					SI70H16			99-1250	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	92 West Wrap	One	5	5	SI239H1			99-1673	Expansion
					SI239H2			99-1674	Expansion
					SI239H3			99-1598	
					SI241H9			99-1418	PSE
					SI241H12			99-1417	PSE
					SI241H14			99-1419	PSE
					SI241H15			99-1597	
					SI241H21			99-1596	
	94 LPSI A	One	3	3	SI89H7			99-1398	
					SI89H8			99-1399	
					SI89H9			99-1400	
					SI241H5			99-1302	PSE
					SI241H7			99-1423	PSE
					SI241H8			99-1421	PSE
	95 LPSI B	One	6	6	SI72H8			99-1401	
					SI72H10			99-1402	
					SI134H11			99-1403	
					SI134H12			99-1404	
					SI194H3			99-1414	Spring Cans Deleted
					SI194H5			99-1415	PSE/Snub. Replace
	96 LPSI to Loop 1A	One	3	3	SI202H7			99-1342	
					SI202H8			99-1343	Snub. Reduction
					SI202H9			99-1344	Snub. Reduction
	97 LPSI to Loop 1B	One	10	9	SI220H9			99-1333	
					SI220H10			99-1334	
					SI220H11			99-1335	Snub. Reduction
					SI220H12			99-1336	PSE/Snub. Replace
					SI220H13			99-1337	
					SI220H14			99-1338	Snub. Reduction
					SI220H15			99-1339	
					SI220H19			99-1340	
					SI220H22			99-1341	Snub. Reduction
	98 LPSI to Loop 2A	One	2	2	SI155H5			99-1329	
					SI155H6			99-1328	PSE/Snub. Replace
	100 LPSI A Suction	One	2	2	SI241H19			99-1330	Reject
								99-1642	Re-exam
					SI369H1			99-1331	
	102 SI Suction A	One	6	2	SI8H4			99-1303	PSE
					SI9H1			99-1429	PSE
					SI307H2			99-1422	PSE
					SI307H5			99-1304	PSE
					SI307H6			99-1425	PSE
					SI307H7			99-1424	PSE
	103 Refuel Suction A	One	6	6	CH142H3			99-1420	PSE
					CH142H13			99-1408	
					CH142H14			99-1409	
					CH142H15			99-1410	
					CH142H19			99-1412	
					CH142H22			99-1411	
					CH424H1			99-1413	
					CH424H2			99-1386	PSE

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
					CH424H3			99-1385	PSE
F 1.20	104 SI Suction B	One	7	7	SI33H1			99-1520	Snub. Reduction
					SI33H2			99-1521	
					SI33H3			99-1522	
					SI308H5			99-1523	
					SI308H8			99-1524	
					SI308H10			99-1525	Snub. Reduction
					SI308H11			99-1526	
	108 HPSI Discharge	One	11	11	SI100H22			99-1388	
					SI100H23			99-1387	
					SI100H24			99-1389	
					SI100H25			99-1390	
					SI100H26			99-1391	
					SI100H27			99-1392	
					SI100H28			99-1393	
					SI100H29			99-1394	
					SI100H31			99-1395	
					SI100H32			99-1396	
					SI100H35			99-1397	

APPENDIX B

CODE LIMITATIONS

APPENDIX B

CODE LIMITATIONS

There were no Code Limitations identified during the Eighth Refueling Outage.

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 running summary of all examinations performed to date for Unit 1. The items examined, along with the examination report numbers, are listed in Appendix A. The examinations performed after the last Summary Report was issued are identified with a 99-1XXX report number.

APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 7-27-99 TO 11-6-99

8. INSPECTION INTERVAL FROM 7-18-98 TO 7-17-08

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 Item Numbers with the corresponding examination report numbers. All of the examinations for the eighth refueling are identified with a 99-1XXX report number.

10. ABSTRACT OF CONDITIONS NOTED

There are no outstanding rejectable items in Unit 1. The rejectable items found during this outage consisted of 3 items; 1was a reactor coolant pump clamp ring and nuts, 1was valve non-pressure retaining bolting and 1was hanger settings. A list of the individual rejected components is located in Section 7.0, REPAIRS AND REPLACEMENTS, of this report.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

The rejectable RCP clamp ring and nuts were replaced. The abnormal conditions found on the support and valve were reworked in accordance with APS Work Control practices.

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. All documents 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 1/21/00 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY [signature] 1/27/00

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 7-27-99 TO 1-21-00, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS 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 [signature] COMMISSIONS NB 9685 "N" "I" Az. 264

NAT'L BOARD, STATE, PROVINCE

DATE January 21, 2000

APPENDIX D

FORMS
NIS-2

APPENDIX D

FORMS
NIS-2

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JPCAFE0057 2. Code Class ASME Section III, Class 3
3. Item Description Annubar Flow Element
4. N-5 Package Number 1PC02-1 5. W.O. Number 00-802614
6. Original Construction Code Edition 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Add annubar flow element, DMWO 00-800082

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.
Add new annubar flow element at the discharge of the Spent Fuel Pool cooling pumps ~~too~~ to support system testing as described in DMWO 00-800082, EDC 97-00645

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Sec III, Cl. 3/'74 Edition, Winter '75
13. Repair/Replacement Activity Construction Code/Edition Sec III, Cl. 3/'74 Edition, Winter '75
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

N/A (Initial) N/A (Date) 15. Include step in the W.O. to perform Preservice Inspection
M (Initial) 06/12/98 (Date) 16. Include a step in the W.O. to send completed copy of this form to ISI Group.
M (Initial) 06/12/98 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
M (Initial) 06/12/98 (Date) 18. Include step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
Annubar	NFF-26	13675.1.5	Not Applicable	MR# 110412

19. Planner R Michael Drake (Signature) 6/12/98 (Date) Print Name R Michael Drake
20. ISI Engineer Fred Poteet (Signature) 6/12/98 (Date) Print Name FRED POTEET
21. ANII R G Hogstrom (Signature) 6-12-98 (Date) Print Name RG HOGSTROM

PV-E0093 Ver. 1

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 06/12/98

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 802614 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System PC (Pool Cooling) ASME Section III Class 3

5. (a) Applicable Construction Code Section III Class 3 1974 Edition, W '75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Annubar	Dieterich Standard	13675.1.5	N/A	1JPCAFE0057	1997	Replacement	No

7. Description of Work Added Annubar Flow Element, DMWO 00-800082

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 802614
Pressure test per Code Case N-416-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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.B. R.L. BROWNING 151 ENG (Owner or Owner's Designee, Title) Date 6-20-98

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-12-98 to 6-20-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date June 20 1998

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PC006H015 2. Code Class CLASS 3, NF
3. Item Description MECHANICAL SNUBBER AND EXTENSION ROD
4. N-5 Package Number 1PC02-1 5. W.O. Number 00835131
6. Original Construction Code Edition '74 Edition thru W' 75 Addnda
7. Original Installation Code Edition '74 Edition thru W'75 Addenda
8. Work Description Replace snubber and extension rod per DMWO #800082

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.
N/A

11. Repair/Replacement Work Organization A.P.S.
12. Replacement Item Construction or reconciled Code/Edition '74 Edition thru W'75 Addenda
13. Repair/Replacement Activity Construction Code/Edition '74 Edition thru W'75 Addenda
14. ASME Section XI Code/Edition '92 Edition thru '92 Addenda
15. Preservice Inspection Required. ☒ YES ☐ NO

S.E. (Initial) 06/15/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

S.E. (Initial) 06/15/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

S.E. (Initial) 06/15/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

S.E. (Initial) 06/15/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PC006H015	PSA-1/2	13811		00245615
1PC006H015	FIG 307N	1999-6		00245615

19. Planner Steven Eich (Signature) 6-15-99 (Date) Print Name Steven Eich
20. ISI Engineer Alan Morrow (Signature) 6-22-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert G. Hogstrom

PV-E0093 Ver 4

TIOP-82217

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. (Name) — Date 06/15/99
   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Sheet 1 of 2
2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00835131 (Work Order Number)
3. Work Performed by A.P.S. (Name) — Type Code Symbol Stamp None
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A
4. Identification of System Pool Cooling "PC"
5. (a) Applicable Construction Code Class 3 "NF" 1974 Edition, 75 Addenda, ____ Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 92 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
1PC006H015	Pacific Scientific	13811	N/A	PSA- 1/2	1981	Replacement	Yes
1PC006H015	Grinnell	1999-6	N/A	FIG 307N	1999	Replacement	Yes

7. Description of Work Replace snubber and extension rod per DMWO #8000082
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
   Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

PV-E0092 Ver 3

73OP-82Z17

FORM NIS-2 (Back)

9. Remarks W.O. 835131

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this REPLACEMENT (repair or 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] SENIOR IST ENGINEER (Owner or Owner's Designee, Title) Date 6-24-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 6-24-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB 9685 N·I·I Az. 264 (National Board, State, Province, and Endorsements)

Date June 24 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JPCBFE0059
2. Code Class ASME Section III, Class 3
3. Item Description Annubar Flow Element
4. N-5 Package Number 1PC02-1
5. W.O. Number 00-802619
6. Original Construction Code Edition 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Add annubar flow element, DMWO 00-800082

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.
Add new annubar flow element at the discharge of the Spent Fuel Pool cooling pumps t6o support system testing as described in DMWO 00-800082, EDC 97-00646

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition Sec III, Cl. 3/'74 Edition, Winter '75
13. Repair/Replacement Activity Construction Code/Edition Sec III, Cl. 3/'74 Edition, Winter '75
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

A (Initial) N/A (Date) 15. Include step in the W.O. to perform Preservice Inspection

M (Initial) 06/12/98 (Date) 16. Include a step in the W.O. to send completed copy of this form to ISI Group.

M (Initial) 06/12/98 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

M (Initial) 06/12/98 (Date) 18. Include step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
Annubar	NFF-26	13675.1.2	Not Applicable	MR# 110413

19. Planner R Michael Drake (Signature) 6/12/98 (Date) Print Name R Michael Drake
20. ISI Engineer RP Indap (Signature) 6/23/98 (Date) Print Name R. P. INDAP
21. ANII [signature] (Signature) 6-23-98 (Date) Print Name R.G. Houstrom

PV-E0093 Ver. 1

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name)
   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address)

Date 06/12/98

Sheet 1 of 2

Unit 1

2. Plant Palo Verde Nuclear Generating Station (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

802619 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Arizona Public Service Co. (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

Type Code Symbol Stamp None
Authorization No. N/A
Expiration Date N/A

4. Identification of System PC (Pool Cooling) ASME Section III Class 3

5. (a) Applicable Construction Code Section III Class 3 1974 Edition, W '75 Addenda, N/A Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Annubar	Dieterich Standard	13675.1.2	N/A	1JPCBFE0059	1997	Replacement	No

7. Description of Work Added Annubar Flow Element, DMWO 00-800082

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

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

73DP-9ZZ17

FORM NIS-2 (Back)

9. Remarks W.O. 802619
Pressure test per Code Case N-416-1

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] Owner or Owner's Designee, Title Date 6-29-98

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-23-98 to 6-28-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date June 29 1998

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNL037
2. Code Class ASME SECTION III, CLASS 2
3. Item Description LETDOWN SPOOL N00A FROM REGENERATIVE HEAT EXCHANGER
4. N-5 Package Number 1CH13-1
5. W.O. Number 841404
6. Original Construction Code Edition ASME SECTION III CL2 1974 ED W'75 ADD
7. Original Installation Code Edition ASME SECTION III CL2 1974 ED W'75 ADD
8. Work Description REMOVE AND REPLACE DAMAGED PIPING SPOOL IAW ENGINEERING "DFWO" DISPOSITION.

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.
REMOVE AND REPLACE DAMAGED PIPING SPOOL IAW ENGINEERING "DFWO" DISPOSITION DUE TO TRANSIENT EVENT IN PIPING SYSTEM.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE (APS)
12. Replacement Item Construction Code/Edition ASME SECTION III CL2 1974 ED W'75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECTION III CL2 1974 ED W'75 ADD
14. ASME Section XI Code/Edition 1992 EDITION 1992 ADDENDA

aw (Initial) 5-20-98 (Date) ~~15. Include step in the W.O. to perform Preservice Inspection~~ Not Required aw 5-20-98

aw (Initial) 5-20-98 (Date) 16. Include a step in the W.O. to send completed copy of this form to ISI Group.

aw (Initial) 5-20-98 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

aw (Initial) 5-20-98 (Date) 18. Include step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1PCHNL037 PIPE	4351-0092		9E4063	PL0179168
3000# CPLG.	4356-0480		CZU & FPA	PL0179168
PIPE LUGS	4364-0382		HT# 79783-3B	

19. Planner [signature] (Signature) 5-20-98 (Date) Print Name Alex Waicelunas
20. ISI Engineer Alan Morrow (Signature) 5-20-98 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 5-20-98 (Date) Print Name Robert G. Holstrom

73DP-9ZZ17

PV-E0093 Ver. 1

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. (Name)
   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address)

Date 05/22/98

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

Unit 1

W.O.# 841404 (Repair Organization P.O. No., Job No., etc.)

3. Work Performed by Arizona Public Service Company (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 8534-7529 (Address)

Type Code Symbol Stamp None
Authorization No. N/A
Expiration Date N/A

4. Identification of System CH (Charging System), ASME Section III, Class 2

5. (a) Applicable Construction Code Section III, Class 2 1974 Edition, '75 W Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
PIPE	N/A	N/A	N/A	HT# 9E4063	N/A	Replacement	No
COUPLING	N/A	N/A	N/A	HT# CZU & FPA	N/A	Replacement	No
RESTRAINT LUGS (From Plate)	N/A	N/A	N/A	HT# 79783-3B	N/A	Replacement	No

7. Description of Work Removed and Replaced Damaged Pipe Spool and Pipe Support

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

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

FORM NIS-2 (Back)

9. Remarks Pressure test per N-416-1, DFWO# 841404

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENG (Owner or Owner's Designee, Title) Date 5-22-98

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-20-98 to 5-22-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB 9685 "N" "I" AZ264 (National Board, State, Province, and Endorsements)

Date MAY 22 1998

73DP-9ZZ17

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JCHNPSV0345 2. Code Class ASME III, CLASS 2
3. Item Description 2" CROSBY RELIEF VALVE
4. N-5 Package Number 1CH13-1 5. W.O. Number 841405
6. Original Construction Code Edition 1974 EDITION, SUMMER 1976 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACEMENT OF RELIEF VALVE. REMOVE VALVE WILL BE TESTED AND REWORKED IF NECESSARY.

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.
USING VENDOR SUPPLIED "LIKE-FOR-LIKE" REPLACEMENT. However this replacement is not because of a structural failure.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction Code/Edition ASME III, Cl.2 1974 ED. S'1976 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III, Cl.2, 1974 ED. W'1975 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

N.A. RPR (Initial) 05/20/98 (Date) 15. Include step in the W.O. to perform Preservice Inspection

DMG (Initial) 05/20/98 (Date) 16. Include a step in the W.O. to send completed copy of this form to ISI Group.

DMG (Initial) 05/20/98 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/20/98 (Date) 18. Include step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1JCHNPSV0345		N61180-00-0008		

19. Planner [signature] (Signature) 5-20-98 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 5-20-98 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 5-20-98 (Date) Print Name BOB HOGSTROM

73OP-9ZZ17

PV-E0093 Ver. 1

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

As Required by the Provisions of the ASME Code Section XI

Date 05/20/98

1. Owner Arizona Public Service Company, et. al. (Name)
   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address)

Sheet 1 of 2

Unit 1

2. Plant Palo Verde Nuclear Generating Station (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

WO# 841405 (Repair Organization P.O. No., Job No., etc.)

Type Code Symbol Stamp None

Authorization No. N/A

Expiration Date N/A

3. Work Performed by Arizona Public Service Co. (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

4. Identification of System "CH"

5. (a) Applicable Construction Code ASME III, Cl 2 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	CROSBY N6	1180-00-0008	N/A	1JCHPSV0345	1986	Replacement	Yes

7. Description of Work Replacement of valve to expidite time system is out of service.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

73OP-9Z

PV-E0092 Ver. 1

FORM NIS-2 (Back)

9. Remarks ~~N/A~~ WO # 841405

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENG (Owner or Owner's Designee, Title) Date 5-22-98

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-20-98 to 5-22-98, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date May 22 1998

73DP-9ZZ17

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV155
2. Code Class ASME SEC III CL 3
3. Item Description CHECK VALVE
4. N-5 Package Number 1CH02-6
5. W.O. Number 847094
6. Original Construction Code Edition 1974 Edition, Summer 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description During the check valve inspection it was found that the body to bonnet studs and nuts were in need of replacement.

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.
N/A

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SECT. III CL.3./'74 ED. '75 SUMMER ADD.
13. Repair/Replacement Activity Construction Code/Edition SECT. III CL 3/'74 ED. '75 WINTER ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JGB Initial 02/23/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JGB Initial 02/23/99 Date If required, include a step in the W.O. for ISI & ANII Inspection.
JGB Initial 02/23/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JGB Initial 02/23/99 Date 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV155 (STUDS)	77203-16	N/A	A2453H HX3	MR# 222106
1PCHNV155(NUTS)	NT0.500-13S	N/A	41039	MR# 222106

19. Planner James G. Boulanger Signature 2/23/99 Date Print Name JAMES G. BOULANGER
20. ISI Engineer Alan Morrow Signature 2-23-99 Date Print Name Alan Morrow
21. ANII R. D. Hogstrom Signature 2-23-99 Date Print Name ROBERT HOGSTROM

PV-E0093 Ver 3

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. (Name)
   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address)

Date 02/23/99

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station (Name)
   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address)

Unit 1

847094 (Work Order Number)

3. Work Performed by Arizona Public Service Company, et. al. (Name)
   P.O. Box 53999, Phoenix, Arizona 85072-2034 (Address)

Type Code Symbol Stamp None
Authorization No. N/A
Expiration Date N/A

4. Identification of System CH, ASME Section III, Cl 3

5. (a) Applicable Construction Code Section III, Cl 3 1974 Edition, W'75 Addenda, _____ Code Case
   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Body to Bonnet Studs & Nuts	Borg Warner	N/A	N/A	1PCHNV155	1999	Replacement	No

7. Description of Work Replace Body to Bonnet studs and nuts after doing check valve inspection

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

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

FORM NIS-2 (Back)

9. Remarks Repalced body to bonnet studs and nuts on valve 1PCHNV155 (Borg Warner Check Valve) S/N 26295 Built 1977 WO# 847094

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] Owner or Owner's Designee, Title Date 2/23/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-23-99 to 2-23-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date February 23 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H008 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Rig. [illegible] 9/16/99 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
[illegible] 9/16/99 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
[illegible] 9/16/99 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H008	STRUT/ 395059	N/A	R527D/G54HF/G54CB	90413693
1SI241H008	Rear Bracket /355959	N/A	AS5298/265	90413693
1SI241H008	Pipe Clamp /364661	N/A	B387D/M701D/Z47/65	90413693

19. Planner [signature] 9/16/99 Print Name Glenn E. Moore
Signature Date
20. ISI Engineer Alan Morrow 9-17-99 Print Name Alan Morrow
Signature Date
21. ANII [signature] 9-21-99 Print Name Robert G. Houstron
Signature Date

PV-E0093 Ver. 4 13DP-9ZZ17

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1CH424H002 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1A 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 ,'74 Ed,'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
ASH (Initial) 9/16/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A (Initial) N/A (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
ASH (Initial) 9/16/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
ASH (Initial) 9/16/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1CH424H002	395049 / Strut	N/A	R5H9810D	PL0318137
1CH424H002	355959 / Rear Bracket	N/A	AS529S / Z65	90413681
1CH424H002	355959 / Rear Bracket	N/A	AS529S / Z65	90413681
RMB 10/05/99				

19. Planner Glenn E Moore (Signature) 9/16/99 (Date) Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow (Signature) 9-17-99 (Date) Print Name Alan Morrow
21. ANII Robert G. Holstrom (Signature) 9-17-99 (Date) Print Name Robert G. Holstrom

PV-E0093 Ver. 4 73DP-8ZZ17

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. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, `75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1CH424H002	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1CH424H002	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1CH424H002	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1CH424H002

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-17-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1CH424H003 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1A 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
[illegible] 9/16/99 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
[illegible] 9/16/99 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
[illegible] 9/16/99 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1CH424H003	396079 / Strut	N/A	R6H9711D	PL0318137
1CH424H003	356959 / Rear Bracket	N/A	AS674 / Z530	90413682
1CH424H003	375161 / Pipe Clamp	N/A	B368D / Z539 / Z530	90413682

19. Planner [illegible] 9/16/99 Print Name Glenn E. Moore
Signature Date
20. ISI Engineer Alan Morrow 9-17-99 Print Name Alan Morrow
Signature Date
21. ANII [illegible] 9-17-99 Print Name Robert G. Hagstrom
Signature Date

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, `75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1CH424H003	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1CH424H003	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1CH424H003	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1CH424H003

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-17-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H012 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 ,'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
ABR 9/16/99 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
ABR 9/16/99 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ABR 9/16/99 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO. RNB 10/16/99	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H012	Strut / 396129 RRI	N/A	R636D / G6S-1	PL0312395

19. Planner Glenn E. Moore 9/16/99 Print Name Glenn E. Moore
Signature Date
20. ISI Engineer Alan Morrow 9-17-99 Print Name Alan Morrow
Signature Date
21. ANII [illegible] 9-21-99 Print Name Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI241H012	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI241H012

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI307H005 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut. IAW. EDC# 94-00465

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.
Engineering Design Change, (EDC)#94-00465. Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect.NF.Cl.2/'74 Edit.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 9/16/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A Initial N/A Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI307H005	Strut / 397109	N/A	R728D / G71A / G721	PL0007422
1SI307H005	Rear Bracket / 357959	N/A	AS7A4 / Z527 /*Z58	90413688
1SI307H005	Pipe Clamp / 363264	N/A	B340D	90413688

19. Planner Glenn E. Moore Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow Signature 9-17-99 Date Print Name Alan Morrow
21. ANII Robert G. Houstrom Signature 4-21-99 Date Print Name Robert G. Houstrom

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. (Name) — Date 08/31/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by Palo Verde Nuclear Generating Station (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

   5801 S. Wintersburg Rd. Tononpah, Arizona 85354-7529 (Address) — Expiration Date N/A

4. Identification of System Safety Injection System (SI)

5. (a) Applicable Construction Code ASME III NF / CL.2 1974 Edition, `75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
STRUT	LISEGA	N/A	N/A	1SI307H005	1999	Replacement	No
REAR BRACKET	LISEGA	N/A	N/A	1SI307H005	1999	Replacement	No
PIPE CLAMP	LISEGA	N/A	N/A	1SI307H005	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI307H005

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions N.B. 9685 "N" "I" Az. 264 (National Board, State, Province, and Endorsements)

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H005 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed,'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 ,'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 9/16/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A Initial N/A Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO. 10/10/99 RMB	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H005	395129 / Strut RRI	N/A	R527D / G5.4CB	90413696

19. Planner Glenn E. Moore Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow Signature 9-17-99 Date Print Name Alan Morrow
21. ANII Signature 9-21-99 Date Print Name Robert G. Houstrom

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd.,Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI241H005	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI241H005

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI067H001 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed,'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 ,'74 Ed,'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
MEM (Initial) 9/16/99 (Date) 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) If required, include a step in the W.O. for ISI & ANII Inspection.
MEM (Initial) 9/16/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MEM (Initial) 9/16/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI067H001	395049 / Strut	N/A	R530D / G5.4CB	PL0007422

19. Planner Glenn E. Moore (Signature) 9/16/99 (Date) Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow (Signature) 9-17-99 (Date) Print Name Alan Morrow
21. ANII Robert G. Houstron (Signature) 9-21-99 (Date) Print Name Robert G. Houstron

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. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd.,Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI067H001	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI067H001

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date October 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI067H003 2. Code Class ASME III, NF / CL-2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-3B 5. W.O. Number 00684227
6. Original Construction Code Edition 1974 Edition & 1975 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Replace Snubber w/Sway Strut IAW. EDC # 94-00465

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.
Permanent Removal of Snubber IAW. EDC#94-00465

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect..NF.Cl2/'74 Edit.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
ASM 9/16/99 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
ASM 9/16/99 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ASM 9/16/99 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI067H003	Strut / 396129	4537-0124	R631D / G6-26	90413686
1SI067H003	Rear Bracket / 356959	4530-1888	AS674 ~~AS670~~ / Z530 RMB 10-14-99	90413686
1SI067H003	Pipe Clamp / 364163	4359-0937	B368D	90413686

19. Planner Glenn E. Moore 9/16/99 Print Name Glenn E. MOORE
Signature Date
20. ISI Engineer Alan Morrow 9-17-99 Print Name Alan Morrow
Signature Date
21. ANII [illegible] 9-21-99 Print Name Robert G. Hogstrom
Signature Date

PV-E0093 Ver. 4 73OP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 08/31/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO #00684227 (Work Order Number)

3. Work Performed by Palo Verde Nuclear Generating Station (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd.,Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Safety Injection System / SI

5. (a) Applicable Construction Code ASME III NF / CL.2 1974 Edition, 75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
RIGID STRUT	LISEGA	N/A	N/A	1SI-067-H003	1999	Replacement	No
REAR BRACKET	LISEGA	N/A	N/A	1SI-067-H003	1999	Replacement	No
PIPE CLAMP	LISEGA	N/A	N/A	1SI-067-H003	1999	Replacement	No

7. Description of Work Deletion of Snubber Per DCP 1PC-SI-209,EDC #94-00465

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO #00684227 1SI067H003

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI307H006 2. Code Class ASME III. NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 9/16/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A Initial N/A Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI307H006	396079 / Strut	N/A	R634D / G641	PL0007422
1SI307H006	396959 / Rear Bracket	N/A	AS674 / Z530	90413691
1SI307H006	376161 / Pipe Clamp	N/A	B368D / A505D	PL0007422

19. Planner _____ Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer _____ Signature 9-17-99 Date Print Name Alan Morrow
21. ANII _____ Signature 9-21-99 Date Print Name Robert G. Houstron

PV-E0093 Ver. 4 73DP-9Z217

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. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

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

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, `75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI307H006	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI307H006	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI307H006	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI307H006

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI307H007 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 9/16/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A Initial N/A Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI307H007	397059S / Strut	N/A	AR184D	PL00318157
1SI307H007	357959 / Rear Bracket	N/A	AS7A6 / Z555	PL00108441
1SI307H007	376162 / Pipe Clamp	N/A	B381D/A318D/Z535*	90413690
			Z58/ Z539	

19. Planner Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer Signature 9-17-99 Date Print Name Alan Morrow
21. ANII Signature 9-21-99 Date Print Name Robert G. Hogstrom

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI307H007	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI307H007	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI307H007	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI307H007

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature)

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI002H002 2. Code Class ASME III. NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. 9/10/99 ☐ YES ☒ NO
Initial 9/16/99 Date If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
Initial Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI002H002	Strut / 3952RR2	N/A	R519D /G6S-1	90413697

19. Planner Glenn E. Moore Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow Signature 9/17/99 Date Print Name Alan Morrow
21. ANII Robert G. Holstrom Signature 9-17-99 Date Print Name Robert G. Holstrom

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

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

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '74W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI002H002	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI002H002

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-17-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H007 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 ,'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 9/16/99 Date 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 9/16/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 9/16/99 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H007	395049S / Strut	N/A	AR170D	90413692
1SI241H007	~~395959~~ 395049S-N-11 / Rear Bracket	N/A	A5531	00039445
1SI241H007	364661 / Pipe Clamp	N/A	B387D	90397636

19. Planner Glenn E. Moore Signature 9/16/99 Date Print Name Glenn E. Moore
20. ISI Engineer Alan Monrow Signature 9-17-99 Date Print Name Alan Monrow
21. ANII Robert G. Hogstrom Signature 9-21-99 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. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI241H007	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI241H007	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI241H007	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI241H007

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI307H002

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1CH142H003 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1A 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 ,'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
ASR 9/16/99 (Initial / Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A (Initial / Date) If required, include a step in the W.O. for ISI & ANII Inspection.
ASR 9/16/99 (Initial / Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
ASR 9/16/99 (Initial / Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1CH142H003	396109/ Strut RAI RMS 9-14-99	N/A	R630D / G6S1	PL0007422

19. Planner Glenn E. Moore (Signature) 9/16/99 (Date) Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow (Signature) 9-17-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 9-17-99 (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. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd.,Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1CH142H003	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1CH142H003

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-17-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions NB 9685 "N" "I" Az. 269 (National Board, State, Province, and Endorsements)

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H014 2. Code Class ASME III, NF / CLASS-2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number 00684227
6. Original Construction Code Edition 1974 Edition & 1975 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Replace Snubber with Rigid Strut. IAW. EDC #94-00465.

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.
Engineering Document Change. (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect..NF,Cl2/'74 Edit.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
MJK (Initial) 9/16/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A (Initial) N/A (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MJK (Initial) 9/16/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MJK (Initial) 9/16/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H014	Strut / 396129	N/A	R634D / G6S-1	PL0007422
			RMB 10-10-99	

19. Planner Glenn E. Moore (Signature) 9/16/99 (Date) Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow (Signature) 9-17-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 9-21-99 (Date) Print Name Robert G. Hogstrom

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 08/31/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — W0#00684227 (Work Order Number)

3. Work Performed by Palo Verde Nuclear Generating Station (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

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

4. Identification of System Safety Injection System / SI

5. (a) Applicable Construction Code ASME III NF / CL.2 1974 Edition, 75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
STRUT	LISEGA	N/A	N/A	1SI241H014	1999	Replacement	No

7. Description of Work Deletion of Snubber Per DCP 1PC-SI-209,EDC #94-00465 replaced with rigid strut.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI241H014

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford. Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI002H004 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed,'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 ,'74 Ed,'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. 10-15-99 ☑ YES ☒ NO
KJS (Initial) 10/15/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A (Initial) N/A (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
KJS (Initial) 10/15/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
KJS (Initial) 10/15/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI002H004	395049 / Strut	N/A	R529D / G5.4CW	MR6035
1SI002H004	355959 / Rear Bracket	N/A	AS529S / Z565	90413683
1SI002H004	362261 / Pipe Clamp	N/A	B439D / Z537	MR6035

19. Planner [signature] (Signature) 10/15/99 (Date) Print Name KARL V. SAVAGE
20. ISI Engineer [signature] (Signature) 10/15/99 (Date) Print Name FRED POTEET
21. ANII [signature] (PCIG SIGNED 9-22-99) (Signature) 10-15-99 (Date) Print Name R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI002H004	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI002H004	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI002H004	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI002H004

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-22-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions N.B. 9685 "N" "I" Az. 264 (National Board, State, Province, and Endorsements)

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI241H009 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI07-3B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 ,'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
ABM 9/16/99 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A N/A If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
ABM 9/16/99 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
ABM 9/16/99 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI241H009	Strut / 396109	N/A	R631D / G6-26*/	90413694
			G6-212345	
1SI241H009	Rear Bracket / 396959	N/A	AS691 / Z533	PL00039444
1SI241H009	Rear Bracket / 396959	N/A	AS670 / Z530	90413694

19. Planner Glenn E. Moore 9/16/99 Print Name Glenn E. Moore
Signature Date
20. ISI Engineer Alan Morrow 9-17-99 Print Name Alan Morrow
Signature Date
21. ANII [signature] 9-21-99 Print Name Robert G. Hogstrom
Signature Date

PV-E0093 Ver. 4

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI241H009	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI241H009	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI241H009	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI241H009

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions NB 9685 "N" "I" Az 269 (National Board, State, Province, and Endorsements)

Date October 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI008H004 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2,'74 Ed,'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect, NF/CL2 ,'74 Ed,'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
KKS (Initial) 10/15/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A (Initial) N/A (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
KKS (Initial) 10/15/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
KKS (Initial) 10/15/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI008H004	S395039 STRUT	N/A	AR182D	PL0318137
1SI008H004	355959 / Rear Bracket	N/A	AS531 / Z537	PL0038951
1SI008H004	362761 / Pipe Clamp	N/A	B608D / Z55D / M109D	PL#0225680

RMS 10-10-

19. Planner [signature] (Signature) 10/15/99 (Date) Print Name KARL V. SAUACEZ
20. ISI Engineer [signature] (Signature) 10/15/99 (Date) Print Name FRED POTEET
21. ANII [signature] (OSCA. SIGNED 9-21-99) (Signature) 10-15-99 (Date) Print Name ROBERT G. HOLMSTROM

PV-E0093 Ver. 4

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, `75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI008H004	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI008H004	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI008H004	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI008H004

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford. Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions N.B. 9685 "N" "I" Az. 264 (National Board, State, Province, and Endorsements)

Date OCTOBER 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SI009H001 2. Code Class ASME III, NF / CLASS 2
3. Item Description SNUBBER
4. N-5 Package Number 1SI01-1B 5. W.O. Number WO#00684227
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replace Snubber with Rigid Strut IAW. EDC #94-00465

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.
Engineering Design Change, (EDC) #94-00465, Snubber being replaced with Rigid Strut.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Subsect. NF/CL2.'74 Ed.'75 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition Subsect. NF/CL2 .'74 Ed.'75 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
MEK (Initial) 9/16/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
N/A (Initial) N/A (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MEK (Initial) 9/16/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MEK (Initial) 9/16/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1SI009H001	396079 / Strut	N/A	R634D / G641	MR6035
1SI009H001	356959 / Rear Bracket	N/A	AS674 / Z530	90413685
~~1SI009H001~~	~~363263 / Pipe Clamp~~	~~N/A~~	~~B368D / Z49 / Z533~~	~~MR6035~~ RMB 10-16
1SI009H001	356959 REAR BRKT	N/A	AS691	PL 00394445

19. Planner Glenn E. Moore (Signature) 9/16/99 (Date) Print Name Glenn E. Moore
20. ISI Engineer Alan Morrow (Signature) 9/17/99 (Date) Print Name Alan Morrow
21. ANII R G Hogstrom (Signature) 9-21-99 (Date) Print Name Robert G. Hogstrom

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/08/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WO#00684227 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code ASME III NF/CL-2 1974 Edition, '75W Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Rigid Strut	Lisega	N/A	N/A	1SI009H001	1999	Replacement	No
Rear Bracket	Lisega	N/A	N/A	1SI009H001	1999	Replacement	No
Pipe Clamp	Lisega	N/A	N/A	1SI009H001	1999	Replacement	No

7. Description of Work

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#00684227 1SI009H001

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-16-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-21-99 to 10-16-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 16 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGAUV0134 2. Code Class ASME III, CLASS 2
3. Item Description 6"- 900# FLEX WEDGE PRESSURE SEAL GATE VALVE
4. N-5 Package Number 1SG01-1 5. W.O. Number 768262
6. Original Construction Code Edition ASME III CLASS 2, 1974 ED., SUMMER 1975 ADD.
7. Original Installation Code Edition ASME III CLASS 2, 1974 ED., WINTER 1975 ADD.
8. Work Description Design change (over-pressurization mod.) iaw DMWO# 767747 to install a larger motor operator. Also replace the "DISC" with higher strength to be capatible with a larger motor operator.
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 required, not a failure.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'1975 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED, W'1975 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
DMG (Initial) 05/11/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
DMG (Initial) 05/11/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 05/11/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 05/11/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
DISC	D13910	Y386	C6490	PL0310897
				MR#281386-2

19. Planner [signature] 5-11-99 (Signature, Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 5-18-99 (Signature, Date) Print Name RAMAKANT INDAP
21. ANII [signature] 6-22-99 (Signature, Date) Print Name ROBERT 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. (Name) — Date 05/11/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 768262 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve Disc	BW/IP	Y386	NA	1JSGAUV0134	1997	Replacement	Yes

7. Description of Work Disassemble valve and install stronger Disc..

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 768262, Valve 1JSGAUV0134.
THIS DESIGN CHANGE IS INSTALLING A NEW LARGER MOTOR OPERATOR ON THE GATE VALVE. THE VALVE WILL BE DISASSEMBLE AND A STRONGER "DISC" WILL BE INSTALLED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 [illegible] Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-4-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-4-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[illegible] (Inspector's Signature) Commissions NB 9685 "N" "1" Az-264 (National Board, State, Province, and Endorsements)

Date November 4 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGAUV0138 2. Code Class ASME III, CLASS 2
3. Item Description 6"- 900# FLEX WEDGE PRESSURE SEAL GATE VALVE
4. N-5 Package Number 1SG02-1 5. W.O. Number 768264
6. Original Construction Code Edition ASME III CLASS 2, 1974 ED., WINTER 1974 ADD.
7. Original Installation Code Edition ASME III CLASS 2, 1974 ED., WINTER 1975 ADD.
8. Work Description Design change (over-pressurization mod.) iaw DMWO# 767747 to install a larger motor operator. Also replace the "DISC" with higher strength to be capatible with a larger motor operator.
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 required, not a failure.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., W'1974
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED, W'1975 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
DMG (Initial) 05/11/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
DMG (Initial) 05/11/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 05/11/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 05/11/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
DISC	D13910	S/N Y385	C6490	Pick List 310899
				MR#281389-0002
				CR0943534

19. Planner [signature] 5-11-99 (Signature, Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 5-18-99 (Signature, Date) Print Name RAMAKANT INDAP
21. ANII [signature] 6-22-99 (Signature, Date) Print Name ROBERT HOGSTROM

PV-E0093 Ver. 2 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 05/11/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 768264 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, W'74 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve Disc	BW/IP	Y385	NA	1JSGAUV0138	1997	Replacement	Yes

7. Description of Work Disassemble valve and install stronger Disc..

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 768264, Valve 1JSGAUV0138.
THIS DESIGN CHANGE IS INSTALLING A NEW LARGER MOTOR OPERATOR ON THE GATE VALVE . THE VALVE WILL BE DISASSEMBLE AND A STRONGER "DISC" WILL BE INSTALLED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-4-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-4-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 4 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSIAUV0617 2. Code Class ASME SECTION III CL2

3. Item Description 2 INCH GLOBE VALVE (BORG WARNER)

4. N-5 Package Number 1RC01-5 5. W.O. Number 00-775382

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

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

8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 00-705815. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 26962 BLT 1979, IS RE-USED.

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

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 00-705815 FOR MORE INFO.

11. Repair/Replacement Work Organization APS

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

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

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

15. Preservice Inspection Required. ☐ YES ☑ NO

CJL (Initial) 07/22/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

CJL (Initial) 07/22/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

CJL (Initial) 07/22/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

CJL (Initial) 07/22/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	322813A S/N 19 ✓	8656124	00206717-0002
DISC	2000368	321976B S/N 201 ✓	M872C	00206717-0002

19. Planner Charles J. Larson (Signature) 8-18-99 (Date) Print Name CHARLES LARSON

20. ISI Engineer R P Indap (Signature) 8-18-99 (Date) Print Name R. P. INDAP

21. ANII R G Houstrom (Signature) 8-18-99 (Date) Print Name R. G. HOUSTROM

PV-E0093 Ver. 3

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/22/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00-775382 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   SAME AS ABOVE (ITEM #2) (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code SECTION III CL 2 1974 Edition, 75W Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	322813A S/N 19	N/A	1JSIAUV0617	1997	Replacement	Yes
DISC	BORG-WARNER	321976B S/N 201	N/A	1JSIAUV0617	1997	Replacement	No

7. Description of Work REPLACED BONNET AND DISC

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks UNDER PCWO 00-775382, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR. WORK IAW DMWO 00-705815. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET AND YOKE.. BODY TO BONNET IS SEAL WELDED, BONNET TO YOKE IS TACK WELDED. BORG-WARNER VALVE BODY S/N 26962 , BLT 1979 ,IS REUSED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 10-25-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-18-99 to 10-25-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date October 25 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSIAUV0666 2. Code Class ASME SECTION III CL2

Item Description 2 INCH GLOBE VALVE (BORG WARNER)

4. N-5 Package Number 1SI09-3 5. W.O. Number 00-775383

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

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

8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 00-705815. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 23819 BLT 1977, IS RE-USED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 00-705815 FOR MORE INFO.

11. Repair/Replacement Work Organization APS

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

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

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

15. Preservice Inspection Required. ☐ YES ☑ NO

CIL (Initial) 06/25/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

CIL (Initial) 06/25/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

CIL (Initial) 06/25/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

CIL (Initial) 06/25/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	322813A S/N 22	8656124	00148025-0006
DISC	2000368	321976E S/N 155	M873B	00148025-0006

19. Planner Charles J. Larson (Signature) 8-18-99 (Date) Print Name CHARLES LARSON

20. ISI Engineer R P Indap (Signature) 8-18-99 (Date) Print Name R. P. INDAP

21. ANII R G Hogstrom (Signature) 8-18-99 (Date) Print Name R G. HOGSTROM

PV-E0093 Ver. 3

72DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/22/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00-775383 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   SAME AS ABOVE (ITEM #2) (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code SECTION III CL 2 1974 Edition, 75W Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	322813A S/N 22	N/A	1JSIAUV0666	1997	Replacement	Yes
DISC	BORG-WARNER	321976E S/N 155	N/A	1JSIAUV0666	1997	Replacement	No

7. Description of Work REPLACED BONNET AND DISC

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks UNDER PCWO 00-775383, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR. WORK IAW DMWO 00-705815. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET AND YOKE.. BODY TO BONNET IS SEAL WELDED, BONNET TO YOKE IS TACK WELDED. BORG-WARNER VALVE BODY S/N 23819 , BLT 1977 ,IS REUSED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 10-25-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-18-99 to 10-25-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 25 1999

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. (Name) — Date 10/15/99

   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Sheet 1 of 4

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 803424 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd. , Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH Boration and Dilution System

5. (a) Applicable Construction Code ASME III CLASS 3 1974 Edition, 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
MASS FLOW SENSOR	MICRO MOTION	361372	N/A	1JCHNFE210Y	1999	Replacement	No
CONTROL VALVE	CCI	705831-1-2	N/A	1JCHNFV210Y	1999	Replacement	Yes
3"x3"x2" REDUCING TEE	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
2"X 2" X 1" REDUCING TEE	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
2" 90 DEGREE ELBOW	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
2" 45 DEGREE ELBOW	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
2" WNRF FLANGES	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No

7. Description of Work Design Modification to line 1PCHNL152 I.A.W. DMWO 803423. EDC 97-00636

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 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. (Name) — Date 10/15/99

   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Sheet 2 of 4

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 803424 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd. , Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH Boration and Dilution System

5. (a) Applicable Construction Code ASME III CLASS 3 1974 Edition, 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
2" SCH. 40 PIPE	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
5/8" STUDS	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
5/8" NUTS	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No
PIPE SUPPORT	N/A	N/A	N/A	1CH-152-H00C	1999	Replacement	No
PIPE SUPPORT	N/A	N/A	N/A	1CH-152-H00D	1999	Replacement	No
PIPE SUPPORT	N/A	N/A	N/A	1CH-152-H00E	1999	Replacement	No
PIPE SUPPORT	N/A	N/A	N/A	1CH-152-H00G	1999	Replacement	No

7. Description of Work Design Modification to line 1PCHNL152 I.A.W. DMWO 803423, EDC 97-00636

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 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. (Name) — Date 10/15/99

   P. O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Sheet 3 of 4

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 803424 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH Boration and Dilution System

5. (a) Applicable Construction Code ASME III CLASS 3 1974 Edition, 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
2" DIAPHRAM VALVE	ITT ENGINEERED	635803-1-2	N/A	1PCHNV172	1999	Replacement	Yes
3" Sch. 40 Pipe	N/A	N/A	N/A	1PCHNL152	1999	Replacement	No

7. Description of Work Design Modification to line 1PCHNL152 I.A.W. DMWO 803423, EDC 97-00636

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks MASS FLOW SENSOR WAS DEDICATED TO BE SECTION III CLASS 3 ITEM UNDER THE NRC LETTER OF MARCH 8 1999 (TAC NO. MA-2166, MA-2167 & MA-2168

WO 803424 PAGE 4 OF 4

weld upstream of V-184 on line 1PCHNL193 was cut and rewelded to facilitate installation of V210X

Alan Monour 11-6-99

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Monour Sr. ISI Engineer (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-18-99 to 11-6-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 9685 "N" "I" AZ. 264 (National Board, State, Province and Endorsements)

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNL166 2. Code Class ASME SECT. III CL3 1974 ED W 75
3. Item Description MODIFY LINE 1PCHNL152 IAW DM 803423, EDC 97-00636
4. N-5 Package Number 1CHO2-6 5. W.O. Number 803424
6. Original Construction Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
7. Original Installation Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
8. Work Description DESIGN MODIFICATION TO LINE 1PCHNL166 IAW DM 803423, EDC 97-00636

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure involved, this modification is to improve system operation as explained in the DMWO. RPIndap 9-7-99

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
14. ASME Section XI Code/Edition _____
15. Preservice Inspection Required. ☑ YES ☐ NO
MJ (Initial) 9-7-99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
MJ (Initial) 9-7-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MJ (Initial) 9-7-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MJ (Initial) 9-7-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEE ATTCHED	SKETCH AND	MATERIAL VERIF.	FORM FOR ALL	REPLACED ITEMS

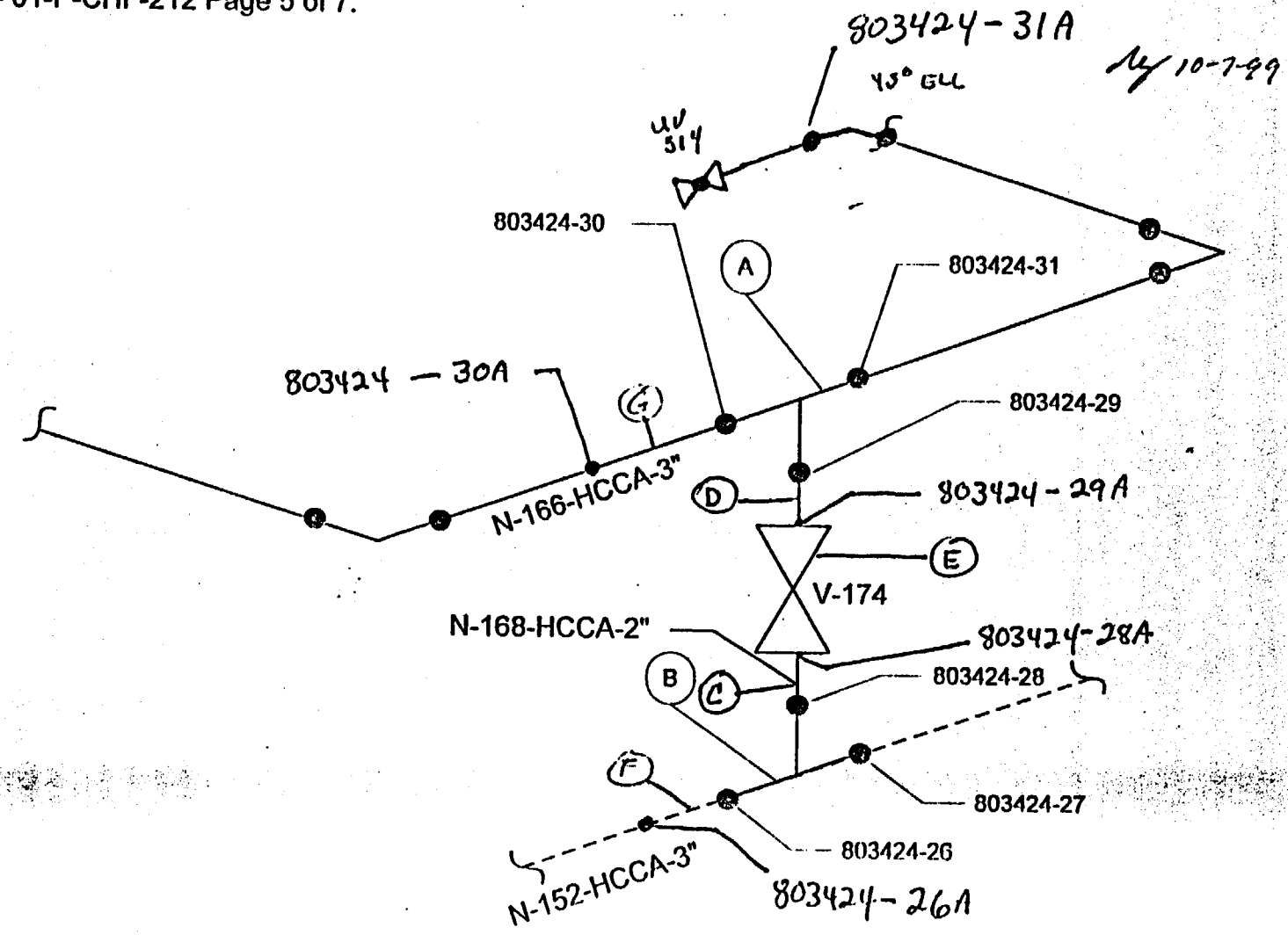
19. Planner [signature] (Signature) 9-7-99 (Date) Print Name MICHAEL JENKINS
20. ISI Engineer RPIndap (Signature) 9-7-99 (Date) Print Name R. P. INDAP
21. ANII [signature] (Signature) 10-7-99 (Date) Print Name R.G. HOGSTROM

PV-E0093 Ver. 4

73DP-9ZZ17

WELD MAP

EDC # 97-00636 - 01-P-CHF-212 Page 5 of 7.



DATE	DESCRIPTION	DRAWN BY
7/24/99	Work Order # 803424 - 210 X & Y Modification Project	MIKE JENKINS

PIPING MATERIAL AND CLEANLINESS VERIFICATION SHEET

LINE / SPOOL NUMBER ____1PCIINL168/166/152 _____ WORK ORDER NUMBER ___803424____

Worker Verification (Initials Indicate Acceptance of the Attribute.)					Material Verification	Cleanliness Verification (Class " B")		
Item	Item Description	APN Number	MR Number	HT NUMBER/ Serial Number	Worker Verification Initial / Date	CLEANING METHOD	VERIFY METHOD	Worker Verification Initial / Date
A	TEE SA403-WP304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	9/3/99	WIPE	VISUAL	9/10/9
B	TEE SA403-WØ304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	9/3/99	WIPE	VISUAL	9/10/9
C	PIPE SA376/312 TP304	43510409	258722-0026	HT-18401	9/3/99	WIPE	VISUAL	9/10/9
D	PIPE SA376/312 TP304	43510409	258722-0026	HT-18401	9/3/99	WIPE	VISUAL	9/10/9
E	DIAPHRAM VALVE V174	00059141	258722-0070	635803-1-1	9/22/99	WIPE	VISUAL	9/22/99
F	PIPE SA376/312 TP304	43510410	258722-0027	L30052	9/3/99	WIPE	VISUAL	9/10/9
G	PIPE SA376/312 TP304	43510410	258722-0027	L30052	9/3/99	WIPE	VISUAL	9/10/99

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. (Name) — Date 10/15/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 803424 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH Boration and Dilution System

5. (a) Applicable Construction Code ASME III CLASS 3 1974 Edition, 75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
3" SCH. 40 PIPE	N/A	N/A	N/A	1PCHNL166	1999	Replacement	No
3" X 3" X 2" REDUCING TEE	N/A	N/A	N/A	1PCHNL166	1999	Replacement	No
PIPE SUPPORT	N/A	N/A	N/A	1CH-166-H003	1999	Replacement	No

7. Description of Work Design Modification to line 1PCHNL166 I.A.W. DMWO 803423 EDC 97-00636

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DMWO 803423 PCWO 803424 PAGE 2 OF 2

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-6-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNL168 2. Code Class ASME SECT. III CL3 1974 ED W 75
3. Item Description MODIFY LINE 1PCHNL152 IAW DM 803423, EDC 97-00636
4. N-5 Package Number 1CHO2-6 5. W.O. Number 803424
6. Original Construction Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
7. Original Installation Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
8. Work Description DESIGN MODIFICATION TO LINE 1PCHNL168 IAW DM 803423, EDC 97-00636

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure involved, this modification is to improve system operation as explained in the DMWO. RPIndap 9-7-99

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
14. ASME Section XI Code/Edition _____
15. Preservice Inspection Required. ☑ YES ☐ NO
MJ (Initial) 9-7-99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
MJ (Initial) 9-7-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MJ (Initial) 9-7-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MJ (Initial) 9-7-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

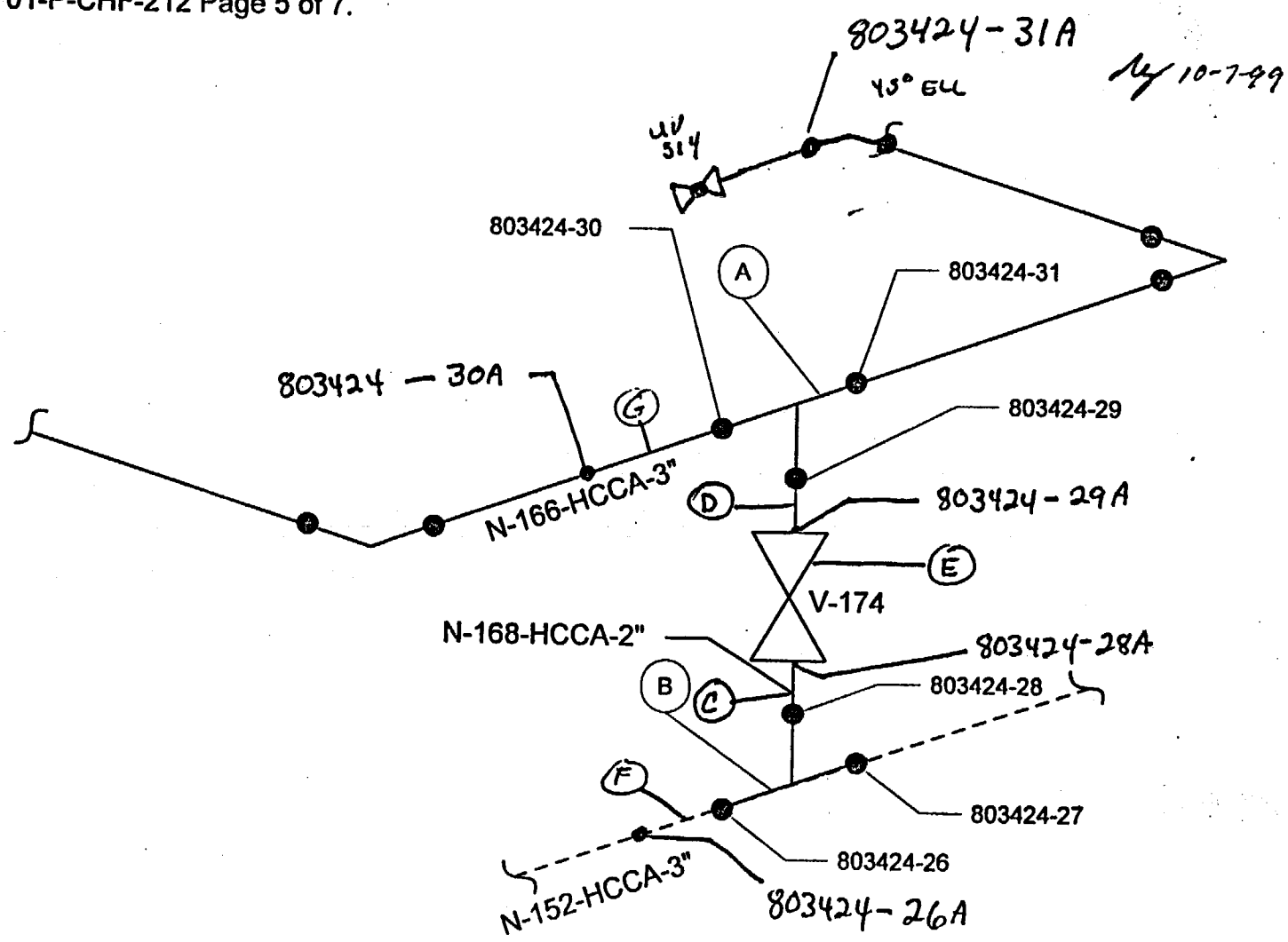
COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEE ATTCHED	SKETCH AND	MATERIAL VERIF.	FORM FOR ALL	REPLACED ITEMS

19. Planner [signature] (Signature) 9-7-99 (Date) Print Name MICHAEL JENKINS
20. ISI Engineer RPIndap (Signature) 9-7-99 (Date) Print Name R. P. INDAP
21. ANII [signature] (Signature) 10-7-99 (Date) Print Name R.G. HOASTROM

PV-E0093 Ver. 4 73DP-9ZZ17

WELD MAP

EDC # 97-00636 - 01-P-CHF-212 Page 5 of 7.



DATE	DESCRIPTION	DRAWN BY
7/24/99	Work Order # 803424 - 210 X & Y Modification Project	MIKE JENKINS

PIPING MATERIAL AND CLEANLINESS VERIFICATION SHEET

LINE / SPOOL NUMBER ____1PCHNL168/166/152 _____ WORK ORDER NUMBER ___803424____

Worker Verification (Initials Indicate Acceptance of the Attribute.)					Material Verification	Cleanliness Verification (Class " B")		
Item	Item Description	APN Number	MR Number	HT NUMBER/ Serial Number	Worker Verification Initial / Date	CLEANING METHOD	VERIFY METHOD	Worker Verification Initial / Date
A	TEE SA403-WP304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	9/3/99	WIPE	VISUAL	9/10/9
B	TEE SA403-WØ304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	9/3/99	WIPE	VISUAL	9/10/9
C	PIPE SA376/312 TP304	43510409	258722-0026	HT-18401	9/3/99	WIPE	VISUAL	9/10/9
D	PIPE SA376/312 TP304	43510409	258722-0026	HT-18401	9/3/99	WIPE	VISUAL	9/10/99
E	DIAPHRAM VALVE V174	00059141	258722-0010	635803-1-1	9/22/99	WIPE	VISUAL	9/22/99
F	PIPE SA376/312 TP304	43510410	258722-0027	L30052	9/3/99	WIPE	VISUAL	9/10/99
G	PIPE SA376/312 TP304	43510410	258722-0027	L30052	9/5/99	WIPE	VISUAL	9/10/99

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

As Required by the Provisions of the ASME Code Section XI

Owner Arizona Public Service Company, et. al. (Name) — Date 10/15/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 803424 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

5801S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH Boration and Dilution System

5. (a) Applicable Construction Code ASME III CLASS 3 1974 Edition, 75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
2" SCH. 40 PIPE	N/A	N/A	N/A	1PCHNL168	1999	Replacement	No
2" DIAPHRAM VALVE	ITT ENGINEERED	635803 1-1	N/A	1PCHNV174	1999	Replacement	Yes

7. Description of Work Design Modification to line 1PCHNL168 I.A.W. DMWO 803423 EDC 97-00636

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

Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DMWO 803423 PCWO 803424

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-6-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNL152 2. Code Class ASME SECT. III CL3 1974 ED W 75
3. Item Description MODIFY LINE 1PCHNL152 IAW DM 803423, EDC 97-00636
4. N-5 Package Number 1CHO2-6 5. W.O. Number 803424
6. Original Construction Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
7. Original Installation Code Edition ASME SECT. III CL3 1974 ED W '75 ADD
8. Work Description DESIGN MODIFICATION TO LINE 1PCHNL152 IAW DM 803423, EDC 97-00636

9. ☐ ISI Flaw NDE Method of Flaw Detection
Report Number
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure involved, this modification is to improve system operation as explained in the DM WO. RPlndap 9-7-99

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III CL3 1974 ED W '75 ADD
14. ASME Section XI Code/Edition
15. Preservice Inspection Required. ☑ YES ☐ NO
mj (Initial) 8-18-99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
mj (Initial) 8-18-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
mj (Initial) 8-18-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
mj (Initial) 8-18-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

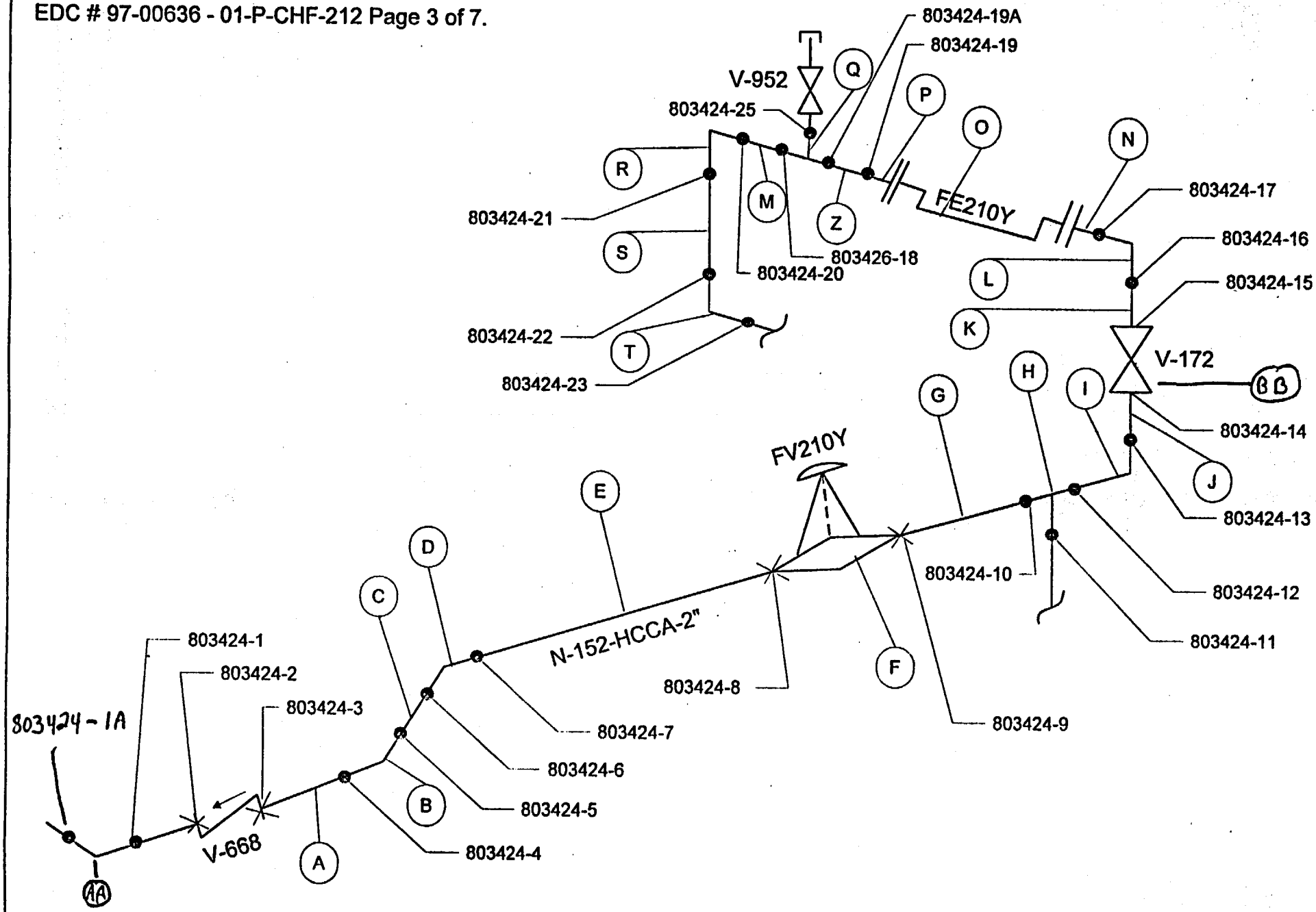
COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEE ATTCHED	SKETCH AND	MATERIAL VERIF.	FORM FOR ALL	REPLACED ITEMS

19. Planner [signature] (Signature) 8-18-99 (Date) Print Name MICHAEL JENKINS
20. ISI Engineer Alan Morrow (Signature) 8-18-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 8-18-99 (Date) Print Name R.G. Hogstrom

PV-E0093 Ver. 4 73OP-9ZZ17

WELD MAP

EDC # 97-00636 - 01-P-CHF-212 Page 3 of 7.



DATE	DESCRIPTION	DRAWN BY
7/24/99	Work Order # 803424 - 210 X & Y Modification Project	MIKE JENKINS

PIPING MATERIAL AND CLEANLINESS VERIFICATION SHEET

LINE / SPOOL NUMBER ____1PCHNL152 _____ WORK ORDER NUMBER ___803424____

Worker Verification (Initials Indicate Acceptance of the Attribute.)					Material Verification	Cleanliness Verification (Class " B")		
Item	Item Description	APN Number	MR Number	HT NUMBER/ Serial Number	Worker Verification Initial / Date	CLEANING METHOD	VERIFY METHOD	Worker Verification Initial / Date
A	PIPE SA376/312 TP 304	43510409	REUSED		EXISTING	PIPE		CLS 9/3/9
B	ELBOW SA403-WP304 BW 45	43540969	258722-0023	LHW01	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
C	PIPE SA376/312 TP304	43510409	258722-0026	HT# 18401	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
D	ELBOW SA403-WP304 BW 45	43540969	258722-033	LHW01	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
E	PIPE SA376/312 TP 304	43510409	258722-0026	HT# 18401	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
F	VALVE DRAG, 2" PO# 5001000045.02.001	00051481	PO# 500-1000045.02.	S/N 705831-12	CLS 10/4/99	WIPE	VISUAL	CLS 10/4/99
G	PIPE SA376/312 TP 304	43510409	258722-0026	HT# 18401	CLS 9/3/99	WIPE	VISUAL	CLS 9/11/99
H	TEE SA403-WP304 BW S40 REDUCING	43530214	258722-0047	JZQC	CLS 9/3/99	WIPE	VISUAL	CLS 9/11/9
I	ELBOW SA403-WP304 BW 90	43540522	258722-0032	LCPP	CLS 9/3/99	WIPE	VISUAL	CLS 9/11/99
J	PIPE SA376/312 TP 304 HT# 18401	43510409	258722-0026	~~HT# D852653~~ CLS 9/14/99	CLS 9/3/99	WIPE	VISUAL	CLS 9/11/9
K	PIPE SA376/312 TP 304	43510409	258722-0026	D852653	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
L	ELBOW SA403-WP304 BW 90	43540522	258722-0032	LCPP	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/11/99
M	PIPE SA376/312 TP304	43510409	258722-0026	D852653	CLS 9/3/99	*~~AIR BLOW~~ CLS 9/14/99 WIPE	VISUAL	CLS 9/13/9
N	FLANGE SA182-F316 WN S40	43580509	258722-0006	D3120	CLS 9/3/99	WIPE	VISUAL	CLS 9/14/9
O	MASS FLOW SENSOR	00051478	CO20TH72-0004	S/N 361372	CLS 9/23/99	WIPE	VISUAL	CLS 9/23/9
P	FLANGE SA182-F316 WN S40	43580509	258722-0006	D3120	CLS 9/3/99	WIPE	VISUAL	CLS 9/13/9
Q	TEE SA403-WP304 BW S40 REDUCER	43530214	258722-0031	JQKK	CLS 9/3/99	WIPE	VISUAL	CLS 9/13/9
R	ELBOW SA403-WP304 BW 90	43540522	258722-0032	LCPP	CLS 9/3/99	WIPE	VISUAL	CLS 9/13/99
S	PIPE SA376/312 TP304	43510409	258722-0026	D852653	CLS 9/3/99	WIPE	VISUAL	CLS 9/13/9

DOCUMENT CONTROL ACC CPA

Material Verification for item "L". Per Step 3.15 and 13-P-2264-012 Rev 26. ER 9-14-99

* SIGNED IN ERROR CLS 9/14/99

PIPING MATERIAL AND CLEANLINESS VERIFICATION SHEET

LINE / SPOOL NUMBER ____1PCHNL152 _____ WORK ORDER NUMBER ___803424____

Worker Verification (Initials Indicate Acceptance of the Attribute.)					Material Verification	Cleanliness Verification (Class " B")		
Item	Item Description	APN Number	MR Number	HT NUMBER/ Serial Number	Worker Verification Initial / Date	CLEANING METHOD	VERIFY METHOD	Worker Verification Initial / Date
T	ELBOW SA403-WP304 BW 90	43540522		REUSED	EXISTING			
U	GASKET 2.750 X 3.37	43097180	258722-0007	N/A	CRS 9/3/99	N/A		
V	NUT SA564 GR630 /HHNT	43127012	258722-0022	ADT	CRS 9/3/99			
W	STUD SA564 GR630 H1100	43160572	258722-0024	* SEE BELOW	CRS 9/3/99			
Y	LUGS SA240 TP304 PLATE	43640382	**	17504	CRS 10/7/99			
Z	PIPE SA376/312 TP304	43510409	258722-0026	D852653	CRS 9/3/99	WIPE	VISUAL	CRS 9/13/99
AA	ELBOW SA403-WP304 BW 90	43540522	NOT USED					
BB	DIAPHRAM VALVE V-172	00059141	258722-0000	635805-1-2	CRS 9/23/99	WIPE	VISUAL	CRS 9/23/99
	** P.O.# 33800846 CRS 10/7/99							

* HT#'S / S/N { HQM # 39, HQM # 37, HQM # 33, HQM # 35, HQM # 40, HQM # 23, HQM # 31, HQM # 34 }
CRS 9/3/99

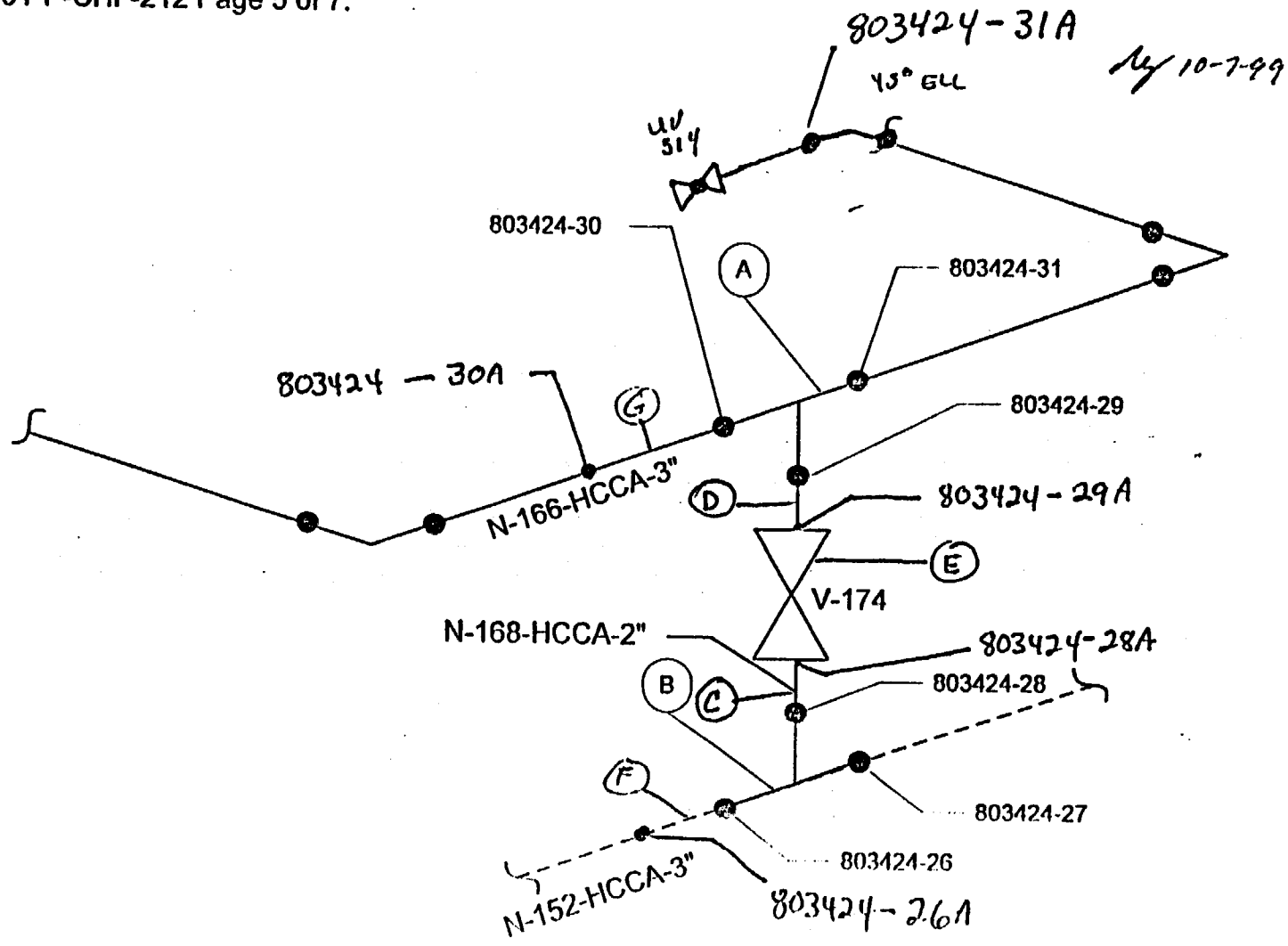
PIPING MATERIAL AND CLEANLINESS VERIFICATION SHEET

LINE / SPOOL NUMBER ____IPCHNL168/166/152 _____ WORK ORDER NUMBER ___803424____

Worker Verification (Initials Indicate Acceptance of the Attribute.)					Material Verification	Cleanliness Verification (Class " B")		
Item	Item Description	APN Number	MR Number	HT NUMBER/ Serial Number	Worker Verification Initial / Date	CLEANING METHOD	VERIFY METHOD	Worker Verification Initial / Date
A	TEE SA403-WP304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	CB 9/3/99	WIPE	VISUAL	CB 9/10/9
B	TEE SA403-WP304 BW S40 REDUCER	00056542	258722-0002	LTEY-1	CB 9/3/99	WIPE	VISUAL	CB 9/10/9
C	PIPE SA376/312 TP304	43510409	268722-0026	HT-18401	CB 9/3/99	WIPE	VISUAL	CB 9/10/9
D	PIPE SA376/312 TP304	43510409	268722-0026	HT-18401	CB 9/3/99	WIPE	VISUAL	CB 9/10/9
E	DIAPHRAM VALVE V174	00059141	268722-0070	635803-1-1	CB 9/22/99	WIPE	VISUAL	CB 9/22/99
F	PIPE SA376/312 TP304	43510410	258722-0027	L30052	CB 9/3/99	WIPE	VISUAL	CB 9/10/9
G	PIPE SA376/312 TP304	43510410	268722-0027	L30052	CB 9/3/99	WIPE	VISUAL	CB 9/10/99

WELD MAP

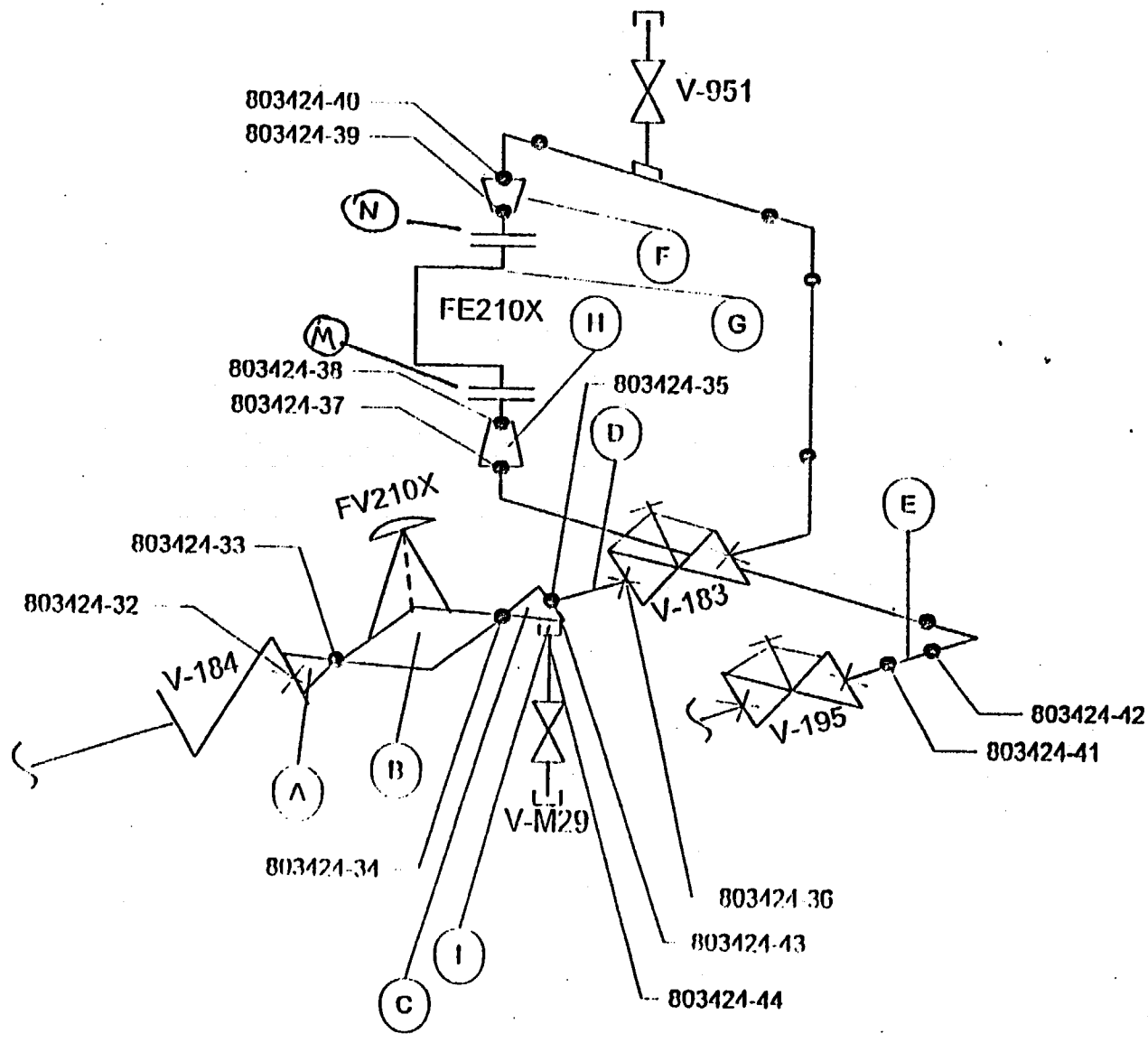
EDC # 97-00636 - 01-P-CHF-212 Page 5 of 7.



DATE	DESCRIPTION	DRAWN BY
7/24/99	Work Order # 803424 - 210 X & Y Modification Project	MIKE JENKINS

WELD MAP

EDC # 97-00636 - 01-P-CHF-214 Page 2 of 4
AND 4 OF 4.



DATE	DESCRIPTION	DRAWN BY
7/24/99	Work Order # 803424 - 210 X & Y Modification Project	MIKE JENKINS

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSIAUV0664 2. Code Class ASME SECTION III CL2

Item Description 2 INCH GLOBE VALVE (BORG WARNER)

4. N-5 Package Number 1SI09-3 5. W.O. Number 00-820255

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

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

8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 00-830233. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 16959 BLT 1978, IS RE-USED.

9. ☐ ISI Flaw NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 00-830233 FOR MORE INFO.

11. Repair/Replacement Work Organization APS

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

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

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

15. Preservice Inspection Required. ☐ YES ☑ NO

CIL (Initial) 07/22/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

CIL (Initial) 07/22/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

CIL (Initial) 07/22/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

CIL (Initial) 07/22/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	322813A S/N 35	8656124	00262322-0001
DISC	2000368	321976C S/N 2	910315-20	00262322-0001

19. Planner Charles J. Larson (Signature) 8-18-99 (Date) Print Name CHARLES LARSON

20. ISI Engineer R P Indap (Signature) 8-18-99 (Date) Print Name R. P. Indap

21. ANII R G Hoostrom (Signature) 8-18-99 (Date) Print Name R.G. HOOSTROM

PV-E0093 Ver. 3

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/22/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00-820255 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   SAME AS ABOVE (ITEM #2) (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code SECTION III CL 2 1974 Edition, 75W Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	322813A S/N 35	N/A	1JSIAUV0664	1997	Replacement	Yes
DISC	BORG-WARNER	321976C S/N 2	N/A	1JSIAUV0664	1997	Replacement	No

7. Description of Work REPLACED BONNET AND DISC

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks UNDER PCWO 00-820255, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR. WORK IAW DMWO 00-830233. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET AND YOKE.. BODY TO BONNET IS SEAL WELDED, BONNET TO YOKE IS TACK WELDED. BORG-WARNER VALVE BODY S/N 16959, BLT 1978, IS REUSED. SI-081-H00B Was reinstalled on, Item 70

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Eng (Owner or Owner's Designee, Title) Date 10-25-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-18-99 to 10-25-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date October 25 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSIAUV0669 2. Code Class ASME SECTION III CL2
3. Item Description 2 INCH GLOBE VALVE (BORG WARNER)
4. N-5 Package Number 1SI09-3 5. W.O. Number 00-820257
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL RISING NON-ROTATING STEM IAW DMWO 00-830233. REMOVE ORIGINAL VALVE INTERNALS AND INSTALL STEM-MOD-KIT. BORG-WARNER VALVE BODY S/N 23822 BLT 1977, IS RE-USED.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____ Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IWA-4150.
NO FAILURE IN ASME CODE BOUNDARY. NEW OPERATOR AND NON-ROTATING STEM ARE BEING INSTALLED TO INCREASE MARGIN AND MINIMIZE MAINTENANCE COSTS. (THE SMC-04 OPERATOR IS OBSOLETE) REFER TO DMWO 00-830233 FOR MORE INFO.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO

cn (Initial) 07/22/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

cn (Initial) 07/22/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

cn (Initial) 07/22/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

cn (Initial) 07/22/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
BONNET	2000372	322813A S/N 31	8656124	~~00015847-0002~~
DISC	2000368	321976I S/N 291	H2-3-5073	~~00015847-0002~~
			P/I 10-26-99	00015847-0002
			CJL... FOR BOTH	OF THE ABOVE:

19. Planner [signature] (Signature) 8-18-99 (Date) Print Name CHARLES LARSON
20. ISI Engineer [signature] (Signature) 8-18-99 (Date) Print Name R. P. INDAP
21. ANII [signature] (Signature) 8-18-99 (Date) Print Name R.L. HOGSTROM

PV-E0093 Ver. 3 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/22/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00-820257 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

   SAME AS ABOVE (ITEM #2) (Address) — Expiration Date N/A

4. Identification of System SI

5. (a) Applicable Construction Code SECTION III CL 2 1974 Edition, 75W Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
BONNET	BORG-WARNER	322813A S/N 31	N/A	1JSIAUV0669	1997	Replacement	Yes
DISC	BORG-WARNER	321976I S/N 291	N/A	1JSIAUV0669	1997	Replacement	No

7. Description of Work REPLACED BONNET AND DISC

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks UNDER PCWO 00-820257, INSTALL STEM-MOD-KIT AND SMB-00 OPERATOR. WORK IAW DMWO 00-830233. THIS REMOVES THE ORIGINAL VALVE INTERNALS AND INSTALLS A NEW STEM & DISC ASSEMBLY, BONNET AND YOKE.. BODY TO BONNET IS SEAL WELDED, BONNET TO YOKE IS TACK WELDED. BORG-WARNER VALVE BODY S/N 23822 , BLT 1977 ,IS REUSED.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 10-25-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-18-99 to 10-26-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date October 26 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGAUV0172 2. Code Class 2

3. Item Description Valve body for 8" Anchor/Darling gate valve

4. N-5 Package Number 1AF02-2 5. W.O. Number 827275

6. Original Construction Code Edition ASME III CLASS 2, 1974 ED.; SUMMER 1975 ADD.

7. Original Installation Code Edition ASME III CLASS 2, 1974 ED.; WINTER 1975 ADD.

8. Work Description Remove the existing cast wedge guides from valve body and replace with a new welded in guides. Also replace the valve disc. New design IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED.; S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED.; W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/21/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/21/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1JSGAUV0172	N/A	2N1657	4063	N/A
(weld new guides)				
Disc	N/A	K321	98214	PL0289160

19. Planner [signature] 5-21-99 (Signature, Date) Print Name David Goodlet

20. ISI Engineer Alan Morrow 5-21-99 (Signature, Date) Print Name Alan Morrow

21. ANII [signature] 6-22-99 (Signature, Date) Print Name Robert Hogstrom

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SG200H014 2. Code Class 2

3. Item Description SNUBBER SUPPORT CONNECTED TO AIR CYLINDER.

4. N-5 Package Number 1AF02-2 5. W.O. Number 827275

6. Original Construction Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975

7. Original Installation Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975

8. Work Description Remove and reweld the existing snubber support rear brackets and replace some structural items. Support for new design for valve1JSGAUV0172 IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III Sub Sec. NF, Class 2, '74 Ed.; S'75

13. Repair/Replacement Activity Construction Code/Edition ASME III Sub Sec. NF, Class 2, 1974 Ed.; W'75

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

15. Preservice Inspection Required. ☑ YES ☐ NO

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/21/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/21/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1SG200H014	N/A	N/A	N/A	N/A
rear end brackets	BH1259	N/A	N/A	N/A
Plate: 1"X8.5"X12"	N/A	N/A	N/A	PL0258597
Plate: 2"x3.5"x15"	N/A	N/A	N/A	PL0270250
Studs: 7/8" dia. x 9" lg.	N/A	N/A	N/A	PL0310888
Nuts: 7/8"	N/A	N/A	N/A	PL0310888

19. Planner [signature] 5-21-99 (Signature, Date) Print Name David Goodlet

20. ISI Engineer Alan Morrow 5-21-99 (Signature, Date) Print Name Alan Morrow

21. ANII [signature] 6-22-99 (Signature, Date) Print Name Robert Hogstrom

PV-E0093 Ver. 2

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 05/21/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827275 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
VALVE	Anchor/Darling	2N1657	N/A	1JSGAUV0172	1979	Repaired	Yes
REAR BRACKET	ITT GRINNELL	N/A	N/A	1SG200H014	1979	Replacement	No
Disc	BW/IP	K321	N/A	1JSGAUV0172	1998	Replacement	Yes
plate: 1"x8.5"x12"	N/A	N/A	N/A	1SG200H014	1999	Replacement	No
plate: 12"x3.5"x15"	N/A	N/A	N/A	1SG200H014	1999	Replacement	No
studs: 7/8 dia. 9"lg	N/A	N/A	N/A	1SG200H014	1999	Replacement	No
nuts: 7/8"	N/A	N/A	N/A	1SG200H014	1999	Replacement	No

7. Description of Work Support work for new design to install larger air cylinders; DMWO# 782577..

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 827275; Valve 1JSGAUV0172. Support work for new design to install larger air cylinder; DMWO# 782577. Remove thr existing cast wedge guides from valve body and replace with new welded in guides. Install new stronger valve disc, remove and reweld snubber bracket and replace some structural items.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/Replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-2-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-2-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 2 1999

FORM NIS-2 (Back)

9. Remarks WO# 827275; 1-1/2" PIPE 1PSGEL393; RE-ROUTE DUE TO NEW DESIGN TO VALVE 1JSGAUV0172

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENG (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-17-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date November 6 1999

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. (Name) — Date 05/21/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827275 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 3 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
1/2" PIPE	N/A	N/A	N/A	1PSGEL393	1999	Replacement	No
1-1/2" ELBOWS	N/A	N/A	N/A	1PSGEL393	1999	Replacement	No
LUGS	N/A	N/A	N/A	N/A	1999	Replacement	No

7. Description of Work RE-ROUTED 1-1/2" PIPE DUE TO NEW DESIGN TO VALVE 1JSGAUV0172.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSGEL393 2. Code Class 3

Item Description 1-1/2" PIPING AND SOCKET WELD ELBOWS.

4. N-5 Package Number _____ 5. W.O. Number 827275

6. Original Construction Code Edition ASME III CLASS 3, 1974 ED.; WINTER 1975 ADD.

7. Original Installation Code Edition ASME III CLASS 3, 1974 ED.; WINTER 1975 ADD.

8. Work Description RE-ROUTE THE 1-1/2" PIPING TO PROVIDE CLEARANCE FOR NEW DESIGN TO VALVE 1JSGAUV0172; DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 3, 1974 ED.; S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 3, 1974 ED.; W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/21/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/21/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/21/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1PSGEL393	N/A	N/A	N/A	N/A
1-1/2" PIPE	N/A	N/A	698844	PL0310888
1-1/2" ELBOWS	N/A	N/A	AA122	PL0310888
LUGS	N/A	N/A	7457495	PL0306906
ITEM 66 (REWELD)	N/A	N/A	N/A	N/A

19. Planner [signature] (Signature) 5-21-99 (Date) Print Name David Goodlet

20. ISI Engineer [signature] (Signature) 8-17-99 (Date) Print Name R. P. INDAP

21. ANII [signature] (Signature) 8-17-99 (Date) Print Name Robert 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. (Name) — Date 05/21/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827275 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 3 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
1/2" PIPE	N/A	N/A	N/A	1PSGEL393	1999	Replacement	No
1-1/2" ELBOWS	N/A	N/A	N/A	1PSGEL393	1999	Replacement	No
LUGS	N/A	N/A	N/A	N/A	1999	Replacement	No

7. Description of Work RE-ROUTED 1-1/2" PIPE DUE TO NEW DESIGN TO VALVE 1JSGAUV0172.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 827275; 1-1/2" PIPE 1PSGEL393; RE-ROUTE DUE TO NEW DESIGN TO VALVE 1JSGAUV0172

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENG (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-17-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSGEL403 2. Code Class 3

Item Description 1-1/2" PIPING

4. N-5 Package Number _____ 5. W.O. Number 827276

6. Original Construction Code Edition ASME III CLASS 3, 1974 ED.; WINTER 1975 ADD.

7. Original Installation Code Edition ASME III CLASS 3, 1974 ED.; WINTER 1975 ADD.

8. Work Description RE-ROUTE THE 1-1/2" PIPING TO PROVIDE CLEARANCE FOR NEW DESIGN TO VALVE 1JSGAUV0175.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 3, 1974 ED.; S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 3, 1974 ED.; W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1PSGEL403 (welds)	N/A	N/A	N/A	N/A
1-1/2" PIPE	N/A	N/A	698844	PL0310888
1-½" ELBOWS	NA	NA	AA122	PL0310885

19. Planner [signature] (Signature) 5-21-99 (Date) Print Name David Goodlet

20. ISI Engineer [signature] (Signature) 5-21-99 (Date) Print Name Alan Morrow

21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert Hogstrom

PV-E0093 Ver. 2

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 05/19/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827276 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 3 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
1/2" ELBOWS	N/A	N/A	N/A	1PSGEL403	١٩٩٢	Replacement	No
1-1/2" PIPE	N/A	N/A	N/A	1PSGEL403	١٩٩٢	Replacement	No

7. Description of Work RE-ROUTED 1-1/2" PIPE DUE TO NEW DESIGN TO VALVE 1JSGAUV0175.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 827276; 1-1/2" PIPE 1PSGEL403; RE-ROUTE DUE TO NEW DESIGN TO VALVE 1JSGAUV0175.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Eng (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGBUV0175 2. Code Class 2

Item Description Valve body for 8" Anchor/Darling gate valve

4. N-5 Package Number 1AF02-2 5. W.O. Number 827276

6. Original Construction Code Edition ASME III CLASS 2, 1974 ED.; SUMMER 1975 ADD.

7. Original Installation Code Edition ASME III CLASS 2, 1974 ED.; WINTER 1975 ADD.

8. Work Description Remove the existing cast wedge guides from valve body and replace with a new welded in guides. Also replace the valve disc. New design IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED.; S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED.; W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1JSGBUV0175	N/A	2N1694	4227	N/A
(weld new guides)				
Disc	N/A	K312	98198	P10289157

19. Planner [signature] (Signature) 5-19-99 (Date) Print Name David Goodlet

20. ISI Engineer Alan Morrow (Signature) 5-21-99 (Date) Print Name Alan Morrow

21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert Hogstrom

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SG203H014 2. Code Class 2

3. Item Description SNUBBER SUPPORT MOUNTED AT TOP OF AIR CYLINDER.

4. N-5 Package Number 1AF02-2 5. W.O. Number 827276

6. Original Construction Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975

7. Original Installation Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975

8. Work Description Remove and reweld the existing snubber support rear bracket. Support for new design for valve 1JSGBUV0135 IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III Sub Sec. NF, Class 2, '74 Ed.; S'75

13. Repair/Replacement Activity Construction Code/Edition ASME III Sub Sec. NF, Class 2, 1974 Ed.; W'75

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

15. Preservice Inspection Required. ☑ YES ☐ NO

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1SG203H014	BH1259	N/A	N/A	N/A
Plate: 1"x8.5"x12"	N/A	N/A	N/A	PL0258597

19. Planner [signature] (Signature) 5-19-99 (Date) Print Name David Goodlet

20. ISI Engineer Alan Morrow (Signature) 5-21-99 (Date) Print Name Alan Morrow

21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert 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. (Name) — Date 05/19/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827276 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
VALVE	Anchor/Darling	2N1694	N/A	1JSGAUV0175	1979	Repaired	Yes
REAR BRACKET	ITT GRINNELL	N/A	N/A	1SG203H014	1979	Replacement	No
Disc	IP/BW	K312	N/A	1JSGAUV0175	1998	Replacement	Yes
plate: 1"X8.5"X12"	N/A	N/A	N/A	1SG203H014	1999	Replacement	No

7. Description of Work Support work for new design to install larger air cylinders; DMWO# 782577..

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 827276; Valve 1JSGAUV0175. Support work for new design to install larger air cylinder; DMWO# 782577. Remove the existing cast wedge guides from valve body and replace with new welded in guides. Install new stronger valve disc, remove and reweld snubber bracket.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair/REPLACEMENT (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-2-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-2-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date November 2 1999

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

As Required by the Provisions of the ASME Code Section XI

ırizona Public Service Company, et. al. (Name) — Date 05/19/99

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

alo Verde Nuclear Generating Station (Name) — Unit 1

801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 827276 (Work Order Number)

erformed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Authorization No. N/A — Expiration Date N/A

ion of System "SG" Main Steam

plicable Construction Code ASME III, Class 3 1974 Edition, S'75 Addenda, _____ Code Case

cable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

ation of Components Repaired or Replaced and Replacement Components

ent	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
S	N/A	N/A	N/A	1PSGEL403	1999	Replacement	No
	N/A	N/A	N/A	1PSGEL403	1999	Replacement	No

tion of Work RE-ROUTED 1-1/2" PIPE DUE TO NEW DESIGN TO VALVE 1JSGAUV0175.

onducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☑

Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 827276; 1-1/2" PIPE 1PSGEL403; RE-ROUTE DUE TO NEW DESIGN TO VALVE 1JSGAUV0175.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Eng (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 19 99

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGAUV0138 2. Code Class ASME III, CLASS 2
3. Item Description 6"- 900# FLEX WEDGE PRESSURE SEAL GATE VALVE
4. N-5 Package Number 1SG02-1 5. W.O. Number 831565
6. Original Construction Code Edition ASME III CLASS 2, 1974 ED., WINTER 1974 ADD.
7. Original Installation Code Edition ASME III CLASS 2, 1974 ED., WINTER 1975 ADD.
8. Work Description Design change (over-pressurization mod.) iaw DMWO# 767747 to install a larger motor operator. Also cut out valve, reposition to allow clearance for new operator and reweld.

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 required, not a failure.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., W'1974
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED, W'1975 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☑ YES ☐ NO
Dwg (Initial) 05/05/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
Dwg (Initial) 05/05/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
Dwg (Initial) 05/05/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Dwg (Initial) 05/05/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

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

19. Planner [signature] (Signature) 5-5-99 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 5-18-99 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 6-22-99 (Date) Print Name ROBERT 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. (Name) — Date 05/05/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 831565 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, W'74 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve body (WELDS)	Anchor/Darling	2N1416	N/A	1JSGAUV0138	1979	Replacement	Yes

7. Description of Work Remove & reweld valve to provide new operator clearance.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 831565, Valve 1JSGAUV0138.
THIS DESIGN CHANGE IS INSTALLING A NEW LARGER MOTOR OPERATOR ON THE GATE VALVE. THE VALVE WILL BE CUT OUT, REPOSITIONED AT A 45 DEGREE ANGLE AND REWELDED TO PROVIDE CLEARANCE FOR THE LARGER MOTOR OPERATOR.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGAUV0134 2. Code Class ASME III, CLASS 2
3. Item Description 6"- 900# FLEX WEDGE PRESSURE SEAL GATE VALVE
4. N-5 Package Number 1SG01-1 5. W.O. Number 831568
6. Original Construction Code Edition ASME III CLASS 2, 1974 ED., SUMMER 1975 ADD.
7. Original Installation Code Edition ASME III CLASS 2, 1974 ED., WINTER 1975 ADD.
8. Work Description Design change (over-pressurization mod.) iaw DMWO# 767747 to install a larger motor operator. Also cut out valve, reposition to allow clearance for new operator and reweld.

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 required, not a failure.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'1975 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED, W'1975 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☑ YES ☐ NO
DMG (Initial) 05/05/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
DMG (Initial) 05/05/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 05/05/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 05/05/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

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

19. Planner [signature] (Signature) 5-5-99 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 5-18-99 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 6-22-99 (Date) Print Name ROBERT HOGSTROM

PV-E0093 Ver. 2

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 05/05/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 831568 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, Az. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve body (WELDS)	Anchor/Darling	2N1415	N/A	1JSGAUV0134	1979	Replacement	Yes

7. Description of Work Remove & reweld valve to provide new operator clearance.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 831568, Valve 1JSGAUV0134.
THIS DESIGN CHANGE IS INSTALLING A NEW LARGER MOTOR OPERATOR ON THE GATE VALVE . THE VALVE WILL BE CUT OUT, REPOSITIONED AT A 45 DEGREE ANGLE AND REWELDED TO PROVIDE CLEARANCE FOR THE LARGER MOTOR OPERATOR.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Eng (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JCHEHV0536 2. Code Class ASME SEC. III CL.2
3. Item Description 3" GATE VALVE
4. N-5 Package Number 1CH03-9 5. W.O. Number 00832845
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of stem and its stem support plate welds due to stem having a bad gouge and packing would not seal when stacked per 13-PN-220

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Stem not able to be reworked to remove gouge and therefor is replaced with stem.
Stem support plate welds were replaced in order to change out stem.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Section III, Cl 3/ '75 Ed. Winter Add.
13. Repair/Replacement Activity Construction Code/Edition Section III, Cl 3/'74 Edition '75 Add
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO
JCB (Initial) 10/15/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JCB (Initial) 10/14/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JCB (Initial) 10/14/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JCB (Initial) 10/14/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1JCHEHV0536	N/A	N/A	N/A	N/A
Stem support plate weld	N/A	N/A	N/A	N/A

19. Planner [signature] (Signature) 10/15/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer [signature] (Signature) 10/15/99 (Date) Print Name R.P. INDAP
21. ANII [signature] (Signature) 10/15/99 (Date) Print Name BOB HOGSTROM

PV-E0093 Ver. 4

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/15/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00832845 (Work Order Number)

3. Work Performed by Arizona Public Service Company (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd. Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System, Sec. III Cl. 3

5. (a) Applicable Construction Code Sec. III Cl. 3 1974 Edition, '75 W Addenda, N/A Code Case

   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1999 Edition, 1999 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Support Plate Welds on the gate	Borg Warner	N/A	N/A	1JCHEUV0536	1999	Replaced	No

7. Description of Work STEM & SUPPORT PLATE WELD REPLACED(FOR STEM REPLACEMENT)

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks REPLACED STEM AND STEM SUPPORT PLATE WELDS WO# 00832845

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGIEER (Owner or Owner's Designee, Title) Date 10/18/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-15-99 to 10-18-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions NB 9685 "N" "1" Az. 264 (National Board, State, Province, and Endorsements)

Date October 18 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGBUV0130 2. Code Class 2
3. Item Description Valve body for 8" Anchor/Darling gate valve
4. N-5 Package Number 1AF02-2 5. W.O. Number 833827
6. Original Construction Code Edition ASME III CLASS 2, 1974 ED.; SUMMER 1975 ADD.
7. Original Installation Code Edition ASME III CLASS 2, 1974 ED.; WINTER 1975 ADD.
8. Work Description Remove the existing cast wedge guides from valve body and replace with a new welded in guides. Also replace the valve disc. New design IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED.; S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED.; W'75 ADD.
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO
DMG (Initial) 05/13/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
DMG (Initial) 05/13/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 05/13/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 05/13/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1JSGBUV0130	N/A	2N1633	4227	N/A
(weld new guides)				
Disc	N/A	K313	98213	PL0289156

19. Planner [signature] (Signature) 5-13-99 (Date) Print Name David Goodlet
20. ISI Engineer [signature] (Signature) 5-18-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert Hogstrom

PV-E0093 Ver. 2

73OP-9ZZ17

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SG20OH013 2. Code Class 2
3. Item Description SNUBBER SUPPORT MOUNTED AT TOP OF AIR CYLINDER.
4. N-5 Package Number 1AF02-2 5. W.O. Number 833827
6. Original Construction Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975
7. Original Installation Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975
8. Work Description Remove and reweld the existing snubber support rear bracket. Support for new design for valve 1JSGBUV0130 IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III Sub Sec. NF, Class 2, '74 Ed.; S'75
13. Repair/Replacement Activity Construction Code/Edition ASME III Sub Sec. NF, Class 2, 1974 Ed.; W'75
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO
DWG (Initial) 05/13/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
DWG (Initial) 05/13/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DWG (Initial) 05/13/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DWG (Initial) 05/13/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1SG200H013	BH1265	N/A	N/A	N/A
Plate: 1"x8.5"x12"	N/A	N/A	N/A	PL0258597

19. Planner [signature] (Signature) 5-13-99 (Date) Print Name David Goodlet
20. ISI Engineer [signature] (Signature) 5-18-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert 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. (Name) — Date 05/13/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 833827 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
VALVE	Anchor/Darling	2N1633	N/A	1JSGBUV0130	1979	Repaired	Yes
REAR BRACKET	ITT GRINNELL	N/A	N/A	1SG200H013	1979	Replacement	No
DISC	IP/BW	K313	N/A	1JSGBUV0130	1998	Replacement	Yes
plate: 1"x8.5"x12"	N/A	N/A	N/A	1SG200H013	1999	Replacement	No

7. Description of Work Support work for new design to install larger air cylinder; DMWO# 782577.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 833827; Valve 1JSGBUV0130. Support work for new design to install larger air cylinder; DMWO# 782577. Remove the existing cast wedge guides from valve body and replace with new welded in guides. Install new stronger valve disc, remove and reweld snubber bracket.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-2-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-2-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB 9685 "N" "1" Az. 264
National Board, State, Province, and Endorsements

Date November 2 1999.

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSGBUV0135 2. Code Class 2

Item Description Valve body for 8" Anchor/Darling gate valve

4. N-5 Package Number 1AF02-2 5. W.O. Number 833828

6. Original Construction Code Edition ASME III CLASS 2, 1974 ED.; SUMMER 1975 ADD.

7. Original Installation Code Edition ASME III CLASS 2, 1974 ED.; WINTER 1975 ADD.

8. Work Description Remove the existing cast wedge guides from valve body and replace with a new welded in guides. Also replace the valve disc. New design IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED.; S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED.; W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

DMG (Initial) 05/18/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DMG (Initial) 05/18/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 05/18/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 05/18/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1JSGBUV0135	N/A	2N1637	4227	N/A
(weld new guides)				
Disc	NA	K320		PL D289158

19. Planner [signature] (Signature) 5-18-99 (Date) Print Name David Goodlet

20. ISI Engineer [signature] (Signature) 5-18-99 (Date) Print Name Alan Morrow

21. ANII [signature] (Signature) 6-22-99 (Date) Print Name Robert Hogstrom

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1SG203H013 2. Code Class 2
3. Item Description SNUBBER SUPPORT MOUNTED AT TOP OF AIR CYLINDER.
4. N-5 Package Number 1AF02-2 5. W.O. Number 833828
6. Original Construction Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975
7. Original Installation Code Edition ASME III Sub Section NF, CLASS 2, 1974 ED.; WINTER 1975
8. Work Description Remove and reweld the existing snubber support rear bracket. Support for new design for valve 1JSGBUV0135 IAW DMWO# 782577.

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.
N/A

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III Sub Sec. NF, Class 2, '74 Ed.; S'75
13. Repair/Replacement Activity Construction Code/Edition ASME III Sub Sec. NF, Class 2, 1974 Ed.; W'75
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda
15. Preservice Inspection Required. ☑ YES ☐ NO

_____ Initial 05/18/99 Date If required, include a step in the W.O. to perform Preservice Inspection.

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

_____ Initial 05/18/99 Date If required, include a step in the W.O. for ISI & ANII Inspection.

_____ Initial 05/18/99 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

_____ Initial 05/18/99 Date 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
1SG203H013	BH1376	N/A	N/A	N/A
Plate: 1"x8.5"x12"	N/A	N/A	N/A	PLD258597

19. Planner [signature] Signature 5-18-99 Date Print Name David Goodlet
20. ISI Engineer [signature] Signature 5-18-99 Date Print Name Alan Morrow
21. ANII [signature] Signature 6-22-99 Date Print Name Robert Hogstrom

PV-E0093 Ver. 2 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 03/18/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 833828 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

   5801 S. Wintersburg Rd., Tonopah, Arizona 85254-7529 (Address) — Expiration Date N/A

4. Identification of System "SG" Main Steam

5. (a) Applicable Construction Code ASME III, Class 2 1974 Edition, S'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
VALVE	Anchor/Darling	2N1637	N/A	1JSGBUV0135	1979	Repaired	Yes
REAR BRACKET	ITT GRINNELL	N/A	N/A	1SG203H013	1979	Replacement	No
DISC	IP/BW	K320	N/A	1JSGBUV0135	1998	Replacement	Yes
plate: 1"X8.5"X12"	N/A	N/A	N/A	1SG203H013	1999	Replacement	No

7. Description of Work Support work for new design to install larger air cylinder; DMWO# 782577.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 833828; Valve 1JSGBUV0135. Support work for new design to install larger air cylinder; DMWO# 782577. Remove the existing cast wedge guides from valve body and replace with new welded in guides. Install new stronger valve disc, remove and reweld snubber bracket.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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 Allan Monow Sr IST Engineer (Owner or Owner's Designee, Title) Date 11-2-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-22-99 to 11-2-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 2 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID EMDGAE04 [illegible] 2. Code Class ASME SECTION 111. CL 3
3. Item Description DIESEL GENERATOR JACKET WATER COOLER
4. N-5 Package Number 2D301-2 5. W.O. Number 878770
6. Original Construction Code Edition ASME SECTION 111. CLASS 3. 1974. SUMMER 1976 ADD.
7. Original Installation Code Edition ASME SECTION 111. CLASS 3. 1974 WINTER. 1975 ADD.
8. Work Description Weld build up of corroded areas on the jacket water cooler inlet end cover

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.
weld build up required due to exceeding minimum wall thickness of cover due to corrosion caused by holiday in coatings. repaired areas to be coated with belzona which has been proven to protect the surfaces of the coolers.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1976 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
MB (Initial) 10/07/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☒ YES ~~☑ NO~~ RPI 10-7-99
MB (Initial) 10/07/99 (Date) If required. include a step in the W.O. for ISI & ANII Inspection.
MB (Initial) 10/07/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MB (Initial) 10/07/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A

19. Planner [signature] (Signature) 10-07-99 (Date) Print Name DAVE BRUNSON
20. ISI Engineer [signature] (Signature) 10-7-99 (Date) Print Name R. P. INDAP
21. ANII _____ (Signature) _____ (Date) Print Name _____

PV-E0093 Ver. 4

TDP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/07/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878770 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

5801 S. Wintersburg Rd., Tonopah, AZ. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ASME Sec. III Cl. 3 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
DG Jacket Water cooler cover	American Standard	9-20016-01-1	31979	1MDGAE05	1978	Repaired	Yes

7. Description of Work Weld build up of corroded area of DG Jacket Water Cooler end cover.

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

Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 573770

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this Replaced (repair or 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] Date 10-14-99

Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period [illegible] to 10-14-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions 23 9635 "A" "I" Az. 264

Inspector's Signature

National Board, State, Province, and Endorsements

Date October 1 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MDGBE05 2. Code Class ASME SECTION III. CL. 3
3. Item Description DIESEL GENERATOR JACKET WATER COOLER
4. N-5 Package Number 1DG02-8 5. W.O. Number 00878771
6. Original Construction Code Edition ASME SECTION III. CLASS 3. 1974. SUMMER 1976 ADD.
7. Original Installation Code Edition ASME SECTION III. CLASS 3. 1974 WINTER. 1975 ADD.
8. Work Description Weld build up of corroded areas on the Jacket Water Cooler inlet\outlet end cover

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.
weld build up required due to exceeding minimum wall thickness of cover due to corrosion caused by holiday in coatings. Repaired areas to be coated with Belzona which has been proven to protect the surfaces of the coolers.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1976 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

DB (Initial) 10/19/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

DB (Initial) 10/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DB (Initial) 10/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DB (Initial) 10/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A
IN\OUTLET HEAD	4-500-19-515-004	N/A	N/A	N/A

19. Planner David L. Brunson (Signature) 10-19-99 (Date) Print Name David L. Brunson
20. ISI Engineer Alan Morrow (Signature) 10-19-99 (Date) Print Name Alan Morrow
21. ANII R.G. Hugstrom (Signature) 10-19-99 (Date) Print Name R.G. HUGSTROM

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. (Name) — Date 10/18/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878771 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5810 S. Wintersburg Rd., Tonopah, AZ. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ~~AMSE~~ ASME Sec. III CL.3 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
DG Jacket Water Cooler	American Standard	9-20016-01-3	31979	1MDGBE05	1978	Repaired	Yes

7. Description of Work _____

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

   Exempt ☐ Other ☐ Pressure _____ psi · Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work order 878771

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-27-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-18-99 to 10-27-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions NB 9635 "N" "1" Az 264 (National Board, State, Province, and Endorsements)

Date October 27 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MDGAE04 2. Code Class ASME SECTION 111. CL 3
3. Item Description DIESEL GENERATOR LUBE OIL COOLER
4. N-5 Package Number [illegible] 5. W.O. Number 878775
6. Original Construction Code Edition ASME SECTION 111. CLASS 3. 1974. SUMMER 1976 ADD.
7. Original Installation Code Edition ASME SECTION 111. CLASS 3. 1974 WINTER. 1975 ADD.
8. Work Description Weld build up of corroded areas on the lube oil cooler inlet end cover

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.
weld build up required due to exceeding minimum wall thickness of cover due to corrosion caused by holiday in coatings. repaired areas to be coated with belzona which has been proven to protect the surfaces of the coolers.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1976 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

DB 10/07/99 (Initial / Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☑ YES ~~☑ NO~~ RPI 10-07-99 DB 10-07-99

DB 10/07/99 (Initial / Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DB 10/07/99 (Initial / Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DB 10/07/99 (Initial / Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A

19. Planner [signature] (Signature) 10-07-99 (Date) Print Name: DAVE BRUNSON
20. ISI Engineer [signature] (Signature) 10-07-99 (Date) Print Name R. P. INDAP
21. ANII _____ (Signature) _____ (Date) Print Name _____

PV-E0093 Ver. 4 70DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/07/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878775 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah, AZ. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ASME Sec. III Cl. 3 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
DG Lube Oil cooler cover	American Standard	9-20016-02-1	31979	1MDGAE04	1978	Repaired	Yes

7. Description of Work Weld build up of corroded area of DG Lube Oil Cooler end cover.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 878775

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed _____ Date 10-14-99
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-9-99 to 10-14-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

_____ Commissions 28 1685 [illegible] Az. 264
Inspector's Signature
National Board, State, Province, and Endorsements

Date October 14 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MDGBE04 2. Code Class ASME SECTION III, CL. 3
3. Item Description DIESEL GENERATOR LUBE OIL COOLER
4. N-5 Package Number 1DG02-8 5. W.O. Number 00878776
6. Original Construction Code Edition ASME SECTION III, CLASS 3, 1974, SUMMER 1976 ADD.
7. Original Installation Code Edition ASME SECTION III, CLASS 3, 1974 WINTER, 1975 ADD.
8. Work Description Weld build up of corroded areas on the Lube Oil cooler inlet\outlet end cover. coolers.
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.
Weld build up required due to exceeding minimum wall thickness of cover due to corrosion caused by holiday in coatings. repaired areas to be coated with Belzona which has been proven to protect the surfaces of the coolers.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION SUMMER 1976 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
DB (Initial) 10/19/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
DB (Initial) 10/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DB (Initial) 10/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DB (Initial) 10/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A

19. Planner [signature] (Signature) 10-19-99 (Date) Print Name David L. Brunson
20. ISI Engineer [signature] (Signature) 10-19-99 (Date) Print Name Alan Monroe
21. ANII [signature] (Signature) 10-19-99 (Date) Print Name R.G. Hogstrom

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/18/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878776 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5810 S. Wintersburg Rd., Tonopah, AZ. 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ~~AMSE~~ ASME Sec. III CL.3 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
DG Lube Oil Cooler	American Standard	9-20016-01-4	31979	1MDGBE04	1978	Repaired	Yes

7. Description of Work _____

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work order 878776

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-27-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford. Connecticut, have inspected the components described in this Owner's Report during the period 10-19-99 to 10-27-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

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

Date October 27 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV485 2. Code Class ASME SEC III CL. 3
3. Item Description 3" DIAPHRAGM VALVE
4. N-5 Package Number 1CH16-1 5. W.O. Number 00878935
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description VALVE DIAPHRAGM REPLACEMENT FOR PREVENTATIVE MAINTENANCE.
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 LIKE FOR LIKE FOR DIAPHRAGM.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SECT. III CL. 3/'74 ED. '75 S'ADD
13. Repair/Replacement Activity Construction Code/Edition SECT. III CL 3/'74 ED. W'ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JB (Initial) 10/19/09 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JB (Initial) 10/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JB (Initial) 10/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JB (Initial) 10/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV485	018993	N/A	N/A	MR# 306298

19. Planner [signature] (Signature) 10/19/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer [signature] (Signature) 10/19/99 (Date) Print Name FRED POTEET
21. ANII [signature] (Signature) 10/19/99 (Date) Print Name BOB HOGSTROM

PV-E0093 Ver. 4

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/19/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878935 (Work Order Number)

3. Work Performed by Arizona Public Service Co. et. al. (Name) — Type Code Symbol Stamp None

   Authorization No. N/A

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

4. Identification of System CH, Chemical Volume Control System, ASME Sec. III Cl. 3

5. (a) Applicable Construction Code Section III, Cl 3 1974 Edition, w'75 Addenda, N/A Code Case

   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 192 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
3" diaphragm	ITT Grinnel	018993	N/A	1PCHNV485	1999	Replaced	No

7. Description of Work Removed/Replaced diaphragm with a new one as Preventative Maintenance.

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

   Exempt ☑ Other ☐ Pressure _____ psi , Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Valve diaphragm replacement (PM) WO# 00878935

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr. ISI Engineer (Owner or Owner's Designee, Title) Date 10-21-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-18-99 to 10-21-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date October 21 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV4~~85~~90 JB 10/21/99 2. Code Class ASME SEC III CL. 3
3. Item Description 3" DIAPHRAGM VALVE
4. N-5 Package Number 1CH16-1 5. W.O. Number 00878936
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION. WINTER 1975 ADDENDA
8. Work Description VALVE DIAPHRAGM REPLACEMENT FOR PREVENTATIVE MAINTENANCE.

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 LIKE FOR LIKE FOR DIAPHRAGM.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SECT. III CL. 3/'74 ED. '75 S'ADD
13. Repair/Replacement Activity Construction Code/Edition SECT. III CL 3/'74 ED. W'ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO

JB (Initial) 10/19/09 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

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

JB (Initial) 10/19/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

JB (Initial) 10/19/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JB (Initial) 10/19/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV490	018993	N/A	N/A	MR# 306299

19. Planner James A. Boulanger (Signature) 10/19/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer Fred Poteet (Signature) 10/19/99 (Date) Print Name FRED POTEET
21. ANII Bob Hogstrom (Signature) 10/19/99 (Date) Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/19/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00878936 (Work Order Number)

3. Work Performed by Arizona Public Service Co. et. al. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd. Tonopah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System, ASME Sec. III Cl. 3

5. (a) Applicable Construction Code Section III, Cl 3 1974 Edition, w'75 Addenda, N/A Code Case

   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 192 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
3" diaphragm	ITT Grinnel	018993	N/A	1PCHNV490	1999	Replaced	No

7. Description of Work Removed/Replaced diaphragm with a new one as Preventative Maintenance.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Valve diaphragm replacement (PM) WO# 00878936

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 SR. ISI Engineer (Owner or Owner's Designee, Title) Date 10-21-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-12-99 to 10-21-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date October 21 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MRCEP01C 2. Code Class ASME SECTION III CLASS 1
3. Item Description REACTOR COOLANT PUMP CLAMP RING & PUMP CASING STUDS & NUTS
4. N-5 Package Number 1RC02-6 5. W.O. Number 00886105
6. Original Construction Code Edition 1974 EDITION
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
8. Work Description INSTALL RCP CLAMP RING & PUMP CASING STUDS & NUTS AS DEEMDED NECESSARY BY ENGINEERING AFTER INSPECTION UNDER WO#886105.

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

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA
15. Preservice Inspection Required. ☑ YES ☐ NO
MBN (Initial) 07/14/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
MBN (Initial) 07/14/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MBN (Initial) 07/14/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MBN (Initial) 07/14/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CLAMP RING	8109-100-012 4513-1835	13002		00334424
~~PUMP CASING STUD~~	STUDS OK and reused - VT #1197 MDP 11-6-99			
PUMP CASING NUT	8109-100-028 4312-0496	A128, A023, A027		00334424
		A025, A031 A063		
		A066		

19. Planner Michael B Newell (Signature) 07/14/99 (Date) Print Name MICHAEL B NEWELL
20. ISI Engineer Alan Morrow (Signature) 7-15-99 (Date) Print Name Alan Morrow
21. ANII Robert Hogstrom (Signature) 7-15-99 (Date) Print Name ROBERT HOGSTROM

PV-E0093 Ver. 4 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/14/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00886105 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. WINTERBURG RD. TONOPAH ARIZONA (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System RC, ASME SECTION III, CLASS 1

5. (a) Applicable Construction Code SEC III, CLASS 1 1974 Edition, N/A Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
CLAMP RING	N/A	N/A	N/A	1MRCEP01C	1999	Replacement	No
PUMP CASING NUT	N/A	N/A	N/A	1MRCEP01C	1999	Replacement	No

7. Description of Work REPLACEMENT OF RCP CLAMP RING & PUMP CASING STUDS & NUTS.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 886105

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 7-15-99 to 11-6-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSIAV143 2. Code Class 2
3. Item Description CHECK VALVE AT PEN 16 HP HEADER 2.
4. N-5 Package Number 1RC01-5 5. W.O. Number 00888782
6. Original Construction Code Edition ASME Sect III, Class 2, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Sect III, Class 2, 1974 Edition, Winter 75 Addenda
8. Work Description Valve internal inspection per 31mt-9zz17 determined that replacement of bonnet/arm/disc assembly is required. Install the assembly removed from 2PSIAV522 by WO 00801189 and reworked by WO 00815865.
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.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect III, Cl 2, 1974 Ed., W 75 Add
13. Repair/Replacement Activity Construction Code/Edition ASME Sect III, Cl 2, 1974 Ed., W 75 Add
14. ASME Section XI Code/Edition ASME Section XI, 1992 Edition, 92 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO

N/A JA (Initial) 10-21-99 (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) 10-21-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

J.D. (Initial) 10-21-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

J.D. (Initial) 10-21-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
Bonnet/ arm/disc asm.	76356	SN14	3W47	N/A

19. Planner [signature] (Signature) 10-21-99 (Date) Print Name JAMES I. DAVIS
20. ISI Engineer Alan Morrow (Signature) 10-21-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 10-21-99 (Date) Print Name R.G. HOGSTROM

PV-E0093 Ver. 2 73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/21/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 3

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — Work Order 00888782 (Work Order Number)

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

   5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect. III , Cl 2 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
CHECK VALVE	BORG-WARNER	49481	N/A	1PSIEV143	1979	Repaired	Yes
BONNET/ARM/ DISC ASSEMBLY	BORG -WARNER	SN14	N/A	N/A	1979	Replacement	Yes

7. Description of Work Replaced bonnet/arm/disc assembly due to damage found during internals inspection.

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 00888782 replaced bonnet /arm/discassembly in existing valve 1PSIEV143; Built by Borg Warner in 1979, serial number 49481.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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] ISI Eng (Owner or Owner's Designee, Title) Date 11-6-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-21-99 to 11-6-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date November 6 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1JSIBUV0648 2. Code Class 1
3. Item Description SAFETY INJECTION TANK CHECK VALVE LEAK LINE ISOLATION VALVE.
4. N-5 Package Number 1RC01-IC 5. W.O. Number 00889863
6. Original Construction Code Edition ASME Section III, Class 1, 1974 Edition, Summer 75 Addenda
7. Original Installation Code Edition ASME Section III, Class 1, 1974 Edition, Winter 75 Addenda
8. Work Description Leak off piping replacement is required per 13-pn-220 when the valve is repacked. Replacement of the valve plug may be required.

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.

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III, Cl 1, 1974 Ed., S 75 Add.
13. Repair/Replacement Activity Construction Code/Edition ASME Sect. III, Cl 1, 1974 Ed., W 75 Add.
14. ASME Section XI Code/Edition ASme Section XI, 1992 Edition, 92 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO
J.A. (Initial) 7-15-99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
J.A. (Initial) 7-15-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
J.A. (Initial) 7-15-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
J.A. (Initial) 7-15-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
PLUG & STEM ASM.	21A4452X083	AR 1658-2	HT# 709389-2	MRR 334158
PIPE CAP	N/A	N/A	CODE "LOLM"	MRR 334158

19. Planner [signature] (Signature) 7-15-99 (Date) Print Name James I. Davis
20. ISI Engineer Alan Morrow (Signature) 7-15-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 7-15-99 (Date) Print Name Robert L. Hogstrom

PV-E0093 Ver. 2

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/21/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — WORK ORDER 00889863 (Repair Organization P.O. No., Job No., etc.)

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

   5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sect III, Cl 1 1974 Edition, s75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Valve	Fisher Controls	6540501	4206	1JSIBUV0648	1979	Repaired	Yes
Leakoff Pipe Cap	N/A	CODE LDLM	N/A	1JSIBUV0648	1999	Replacement	No
Stem /Disc Assembly	Fisher Controls	AE1658-2	N/A	1JSIAUV0648	1999	Replacement	Yes

7. Description of Work Replaced the stuffing box leakoff piping with a pipe cap. Replaced the stem/disc asm.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 00889863 replaced the stem adisc assembly and the stem leakoff piping.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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 Sr ISI Engineer (Owner or Owner's Designee, Title) Date 10-21-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 7-15-99 to 10-21-99, and state that to the best of my knowledge and and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

Commissions NB "9685" "N" "1" Az. 264
National Board, State, Province, and Endorsements

Date October 21 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MRCEE01A 2. Code Class ASME Section III, Class 1
3. Item Description Steam Generator # 1
4. N-5 Package Number 1RC01-4 5. W.O. Number 891136
6. Original Construction Code Edition 1971 Edition & 1973 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Installed CE roll plugs in 1MRCEE01A hot leg tubes per DFWO 891136 evaluation and disposition.

9. [✓] ISI Flaw NDE Method of Flaw Detection Eddy Crnt.
Report Number U1R8 Eddy Current Examination Report

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Evaluation per DFWO 891136

11. Repair/Replacement Work Organization ABB-CE
12. Replacement Item Construction or reconciled Code/Edition 1971 Edition & 1973 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition & 1992 Addenda
15. Preservice Inspection Required. [ ] YES [✓] NO

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

16. ASME Section XI Pressure Test Required [ ] YES [✓] NO

JKF (Initial) 10/01/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

JKF (Initial) 10/01/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JKF (Initial) 10/01/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Tube Plugs	See Attached List	See Attached List	See Attached List	See Attached List

19. Planner _____ (Signature) 10-1-99 (Date) Print Name Joseph K. Flynn
20. ISI Engineer _____ (Signature) 10-5-99 (Date) Print Name Ramakant P. Indap
21. ANII _____ (Signature) 10-7-99 (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. (Name) — Date 10/01/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891136 (Work Order Number)

3. Work Performed by ABB-CE (Name) — Type Code Symbol Stamp None

   911 W. Main St., Chatt., TN 37402 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 1971 Edition, W'73 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Steam Generator #1	CE	78273-1	NA	1MRCEE01A	1978	Repaired	Yes
Tube Plugs	CE	*	NA	*	1999	Replacement	No

7. Description of Work Plug SG (1MRCEE01A) tubes per DFWO 891136. *See attached list of tube plugs.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DFWO 891136, See attached list for tubes plugged.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed [illegible] ENGINEER (Owner or Owner's Designee, Title) Date 10-26-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-10-99, 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.

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

Date November 10 1999

U1R8 SG11 1MRCEE01A PLUGGED TUBES

DFWO 891136 SG11 HOT LEG

Row	Col	Part No.	Serial No.	Heat No.	MR/ROS No.
14	73	C2000CNOP027/028	FR-84	J-9162-2	288931
9	118		FR-83	"	"
24	77		FR-82	"	"
24	113		FR-81	"	"
37	90		FR-80	"	"
37	100		FR-79	"	"
130	43	B9451CO95019/20	8405	J-9161-5	345626
47	64		8423	"	
53	68		8417	"	
50	69		8414	"	
54	69		8549	"	
62	69		8419	"	
57	70		8403	"	
59	70		8418	"	
70	71		8420	"	
49	72		8404	"	
53	72		8407	"	
131	76		8421	"	
66	77		8413	"	
68	81		8410	"	
63	88		8409	"	
60	89		8416	"	
81	102		8408	J-9161-5	
19	118		7523	J-9161-2	
17	122		7516	"	
76	157		7918	"	
81	30		8422	J-9161-5	
100	35		8415	"	
132	67		8424	"	
136	69		8402	"	
119	76		8550	"	
132	89		8411	"	
134	89		8401	"	
126	95		8412	"	
150	97		8035	J-9161-2	
39	104		8029	J-9161-2	
120	107		8033	"	
53	182		7913	"	

52	183	7915	J-9161-2
54	183	7919	"
81	40	8425	J-9161-5
81	48	8406	"
2	63	8031	J-9161-2
17	72	8030	"
71	78	8034	"
38	87	7514	"
41	98	8026	"
40	99	8027	"
39	100	8036	"
37	104	8028	"
31	108	8032	"
142	113	7917	"
114	149	7522	"
72	171	7510	"
55	182	7914	"

345626

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MRCEE01A 2. Code Class ASME Section III, Class 1
3. Item Description Steam Generator # 1
4. N-5 Package Number 1RC01-4 5. W.O. Number 891137
6. Original Construction Code Edition 1971 Edition & 1973 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Installed CE roll plugs in 1MRCEE01A cold leg tubes per DFWO 891137 evaluation and disposition.

9. [✓] ISI Flaw NDE Method of Flaw Detection Eddy Crnt.
Report Number U1R8 Eddy Current Examination Report
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Evaluation per DFWO 891137

11. Repair/Replacement Work Organization ABB-CE
12. Replacement Item Construction or reconciled Code/Edition 1971 Edition & 1973 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition & 1992 Addenda
15. Preservice Inspection Required. [ ] YES [✓] NO

NA (Initial) _____ (Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required [ ] YES [✓] NO

JKF (Initial) 10/01/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

JKF (Initial) 10/01/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JKF (Initial) 10/01/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Tube Plugs	See Attached List	See Attached List	See Attached List	See Attached List

19. Planner [signature] (Signature) 10-1-99 (Date) Print Name Joseph K. Flynn
20. ISI Engineer [signature] (Signature) 10-5-99 (Date) Print Name Ramakant P. Indap
21. ANII [signature] (Signature) 10-7-99 (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. (Name) — Date 10/01/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891137 (Work Order Number)

3. Work Performed by ABB-CE (Name) — Type Code Symbol Stamp None

   911 W. Main St., Chatt., TN 37402 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 1971 Edition, W'73 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Steam Generator #1	CE	78273-1	NA	1MRCEE01A	1978	Repaired	Yes
Tube Plugs	CE	*	NA	*	1999	Replacement	No

7. Description of Work Plug SG (1MRCEE01A) tubes per DFWO 891137. *See attached list of tube plugs.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DFWO 891137, See attached list for tubes plugged.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed DBH ENGINEER (Owner or Owner's Designee, Title) Date 10-26-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-10-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 10 1999

U1R8 SG11 1MRCEE01A PLUGGED TUBES

DFWO 891137 SG11 COLD LEG

Row	Col	Part No.	Serial No.	Heat No.	MR/ROS No.
14	73	C2000CNOP027/028	FR-90	J-9161-2	288931
24	77		FR-88	"	"
37	90		FR-86	"	"
37	100		FR-87	"	"
24	113		FR-89	"	"
9	118		FR-85	"	"
130	43	B9451CO95019/20	8459	J-9161-5	345626
47	64		8435	"	
53	68		8448	"	
50	69		8446	"	
54	69		8440	"	
62	69		8442	"	
57	70		8438	"	
59	70		8451	"	
70	71		8452	"	
49	72		8436	"	
53	72		8439	"	
131	76		8453	"	
66	77		8427	"	
68	81		8449	"	
63	88		8450	"	
60	89		8447	'	
81	102		8433	"	
19	118		8429	"	
17	122		8430	"	
76	157		8431	"	
81	30		8458	"	
100	35		8463	"	
132	67		8460	"	
136	69		8469	"	
119	76		8443	"	
132	89		8444	"	
134	89		8441	"	
126	95		8437	"	
150	97		8445	"	
39	104		8464	"	
120	107		8434	"	
53	182		8432	"	

52	183	8428	J-9161-5	345626
54	183	8426	"	
81	40	8457	"	
81	48	8456	"	
2	63	8455	"	
17	72	8474	"	
71	78	8473	"	
38	87	8462	"	
41	98	8468	"	
40	99	8467	"	
39	100	8466	"	
37	104	8465	"	
31	108	8471	"	
142	113	8472	"	
114	149	8475	"	
72	171	8470	"	
55	182	8461	J-9161-5	

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MRCEE01B 2. Code Class ASME Section III, Class 1
3. Item Description Steam Generator # 2
4. N-5 Package Number 1RC01-2 5. W.O. Number 891142
6. Original Construction Code Edition 1971 Edition & 1973 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Installed CE roll plugs in 1MRCEE01B hot leg tubes per DFWO 891142 evaluation and disposition.

9. [✓] ISI Flaw NDE Method of Flaw Detection Eddy Crnt.
Report Number U1R8 Eddy Current Examination Report
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Evaluation per DFWO 891142

11. Repair/Replacement Work Organization ABB-CE
12. Replacement Item Construction or reconciled Code/Edition 1971 Edition & 1973 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition & 1992 Addenda
15. Preservice Inspection Required. [ ] YES [✓] NO

NA (Initial) _____ (Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required [ ] YES [✓] NO

JKF (Initial) 10/01/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

JKF (Initial) 10/01/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JKF (Initial) 10/01/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Tube Plugs	See Attached List	See Attached List	See Attached List	See Attached List

19. Planner [signature] (Signature) 10-1-99 (Date) Print Name Joseph K. Flynn
20. ISI Engineer [signature] (Signature) 10-5-99 (Date) Print Name Ramakant P. Indap
21. ANII [signature] (Signature) 10-7-99 (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. (Name) — Date 10/01/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891142 (Work Order Number)

3. Work Performed by ABB-CE (Name) — Type Code Symbol Stamp None

   911 W. Main St., Chatt., TN 37402 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 1971 Edition, W'73 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Steam Generator #2	CE	78273-2	NA	1MRCEE01B	1978	Repaired	Yes
Tube Plugs	CE	*	NA	*	1999	Replacement	No

7. Description of Work Plug SG (1MRCEE01B) tubes per DFWO 891142. *See attached list of tube plugs.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DFWO 891142, See attached list for tubes plugged.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed [illegible] ENGINEER (Owner or Owner's Designee, Title) Date 10-26-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-9-99, 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.

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

Date November 9 1999

U1R8 SG12 1MRCEE01B PLUGGED TUBES

DFWO 891142 SG12 HOT LEG

Row	Col	Part No.	Serial No.	Heat No.	MR/ROS No.
9	72	C2000CNOP027/028	FR-78	J-9162-2	288931
24	77	"	FR-77	"	"
37	90	"	FR-73	"	"
38	97	"	FR-74	"	"
24	113	"	FR-75	"	"
9	118	"	FR-76	"	"
17	44	B9451CO95019/20	8049	J-9161-2	345626
30	53	"	8037	"	
21	56	"	8155	"	
25	56	"	8153	"	
34	57	"	8154	"	
47	60	"	8188	"	
28	61	"	7274	J-9161-1	
40	61	"	8158	J-9161-2	
20	63	"	7275	J-9161-1	
80	75	"	8179	J-9161-2	
57	76	"	8164	"	
62	77	"	8163	"	
64	77	"	8168	"	
65	80	"	8161	"	
65	110	"	8196	"	
60	111	"	7292	J-9161-1	
64	111	"	7291	"	
105	114	"	8167	J-9161-2	
54	115	"	7299	J-9161-1	
51	120	"	7298	"	
48	121	"	7297	"	
47	124	"	7285	"	
74	133	"	7300	"	
80	133	"	7282	"	
81	138	"	8192	J-9161-2	
78	139	"	7294	J-9161-1	
79	148	"	7281	"	
4	1	"	8159	J-9161-2	
30	3	"	8045	"	
71	54	"	8157	"	
148	61	"	8040	"	
147	62	"	8021	"	

149	62	B9451CO95019	8007	J-9161-2	345626
150	63	"	8019	"	
147	64	"	8017	"	
149	64	"	8022	"	
148	65	"	8023	"	
150	65	"	8152	"	
147	66	"	8191	"	
149	66	"	8190	"	
151	66	"	8189	"	
148	67	"	8186	"	
152	67	"	8498	J-9161-5	
149	68	"	8187	J-9161-2	
151	68	"	8499	J-9161-5	
105	72	"	8156	J-9161-2	
34	83	"	8160	"	
115	102	"	8177	"	
69	120	"	7296	J-9161-1	
58	123	"	8194	J-9161-2	
84	131	"	8193	"	
70	133	"	7295	J-9161-1	
83	134	"	7284	"	
97	142	"	7283	"	
1	170	"	7288	"	
80	173	"	7293	"	
1	178	"	7289	"	
6	187	"	7287	"	
4	15	"	8041	J-9161-2	
115	32	"	8039	"	
122	35	"	8038	"	
111	42	"	7244	J-9161-1	
98	47	"	8050	J-9161-2	
104	47	"	8048	"	
98	49	"	8044	"	
112	49	"	8046	"	
87	54	"	8181	"	
132	55	"	8047	"	
103	64	"	8162	"	
125	64	"	8182	"	
150	67	"	8185	"	
133	68	"	8151	"	
137	68	"	8043	"	
132	69	"	8042	"	
138	69	"	8166	"	
139	70	"	8183	"	
141	76	"	8184	"	
141	78	"	8165	"	

119	82	"	8180	J-9161-2	345626
125	84	"	8176	"	
109	108	"	8174	"	
122	117	"	7286	J-9161-1	
98	127	"	8195	J-9161-2	
120	127	"	7273	J-9161-1	
129	150	"	7290	"	
100	157	"	7271	"	
105	158	"	7272	"	
77	24	"	7276	"	
110	51	"	7277	"	
90	71	"	8494	J-9161-5	
116	75	"	8495	"	
144	81	"	8496	"	
148	83	"	8497	"	
123	94	"	8198	J-9161-2	
118	95	"	8199	"	
122	105	"	8200	"	
35	112	"	8197	"	
17	116	"	8500	J-9161-5	

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MRCEE01B
2. Code Class ASME Section III, Class 1
3. Item Description Steam Generator # 2
4. N-5 Package Number 1RC01-2
5. W.O. Number 891143
6. Original Construction Code Edition 1971 Edition & 1973 Winter Addenda
7. Original Installation Code Edition 1974 Edition & 1975 Winter Addenda
8. Work Description Installed CE roll plugs in 1MRCEE01B cold leg tubes per DFWO 891143 evaluation and disposition.

9. [✓] ISI Flaw NDE Method of Flaw Detection Eddy Crnt.
Report Number U1R8 Eddy Current Examination Report

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Evaluation per DFWO 891143

11. Repair/Replacement Work Organization ABB-CE
12. Replacement Item Construction or reconciled Code/Edition 1971 Edition & 1973 Winter Addenda
13. Repair/Replacement Activity Construction Code/Edition 1974 Edition & 1975 Winter Addenda
14. ASME Section XI Code/Edition 1992 Edition & 1992 Addenda
15. Preservice Inspection Required. [ ] YES [✓] NO

NA (Initial) _____ (Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required [ ] YES [✓] NO

JKF (Initial) 10/01/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

JKF (Initial) 10/01/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

JKF (Initial) 10/01/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Tube Plugs	See Attached List	See Attached List	See Attached List	See Attached List

19. Planner [signature] (Signature) 10-1-99 (Date) Print Name Joseph K. Flynn
20. ISI Engineer [signature] (Signature) 10-5-99 (Date) Print Name Ramakant P. Indap
21. ANII [signature] (Signature) 10-7-99 (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. (Name) — Date 10/01/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891143 (Work Order Number)

3. Work Performed by ABB-CE (Name) — Type Code Symbol Stamp None

   911 W. Main St., Chatt., TN 37402 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME Sect. III, Cl.1 1971 Edition, W'73 Addenda, NA Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Steam Generator #2	CE	78273-2	NA	1MRCEE01B	1978	Repaired	Yes
Tube Plugs	CE	*	NA	*	1999	Replacement	No

7. Description of Work Plug SG (1MRCEE01B) tubes per DFWO 891143. *See attached list of tube plugs.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks DFWO 891143, See attached list for tubes plugged.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp NA

Certificate of Authorization No. NA Expiration Date NA

Signed DAH ENGINEER (Owner or Owner's Designee, Title) Date DAH 10-26-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-7-99 to 11-9-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date November 9 1999

U1R8 SG12 1MRCEE01B PLUGGED TUBES

DFWO 891143 SG12 COLD LEG

Row	Col	Part No.	Serial No.	Heat No.	MR/ROS No.
9	72	C2000CNOP027/028	FR-67	J-9162-2	288931
24	77	"	FR-69	"	"
37	90	"	FR-68	"	"
38	97	"	FR-70	"	"
24	113	"	FR-71	"	"
9	118	"	FR-72	"	"
17	44	B9451CO95019/20	8014	J-9161-2	345626
30	53	"	8002	J-9161-2	
21	56	"	8003	"	
25	56	"	8010	"	
34	57	"	8015	J-9161-2	
47	60	"	8018	"	
28	61	"	8476	J-9161-5	
40	61	"	8024	J-9161-2	
20	63	"	8483	J-9161-5	
80	75	"	8025	J-9161-2	
57	76	"	8544	J-9161-5	
62	77	"	8543	"	
64	77	"	8533	"	
65	80	"	8534	"	
65	110	"	8537	"	
60	111	"	8535	J-9161-5	
64	111	"	8536	"	
105	114	"	8547	J-9161-5	
54	115	"	8527	J-9161-5	
51	120	"	8526	"	
48	121	"	8529	"	
47	124	"	8531	"	
74	133	"	8484	"	
80	133	"	8481	"	
81	138	"	8486	J-9161-5	
78	139	"	8493	J-9161-5	
79	148	"	8489	"	
4	1	"	8016	J-9161-2	
30	3	"	8530	J-9161-5	
71	54	"	8532	"	
148	61	"	8519	"	
147	62	"	8520	"	

149	62	B9451CO95019/20	8521	J-9161-5	345626
150	63	"	8522	"	
147	64	"	8523	"	
149	64	"	8506	"	
148	65	"	8511	"	
150	65	"	8524	"	
147	66	"	8501	"	
149	66	"	8502	"	
151	66	"	8503	"	
148	67	"	8512	"	
152	67	"	8507	"	
149	68	"	8505	"	
151	68	"	8509	J-9161-5	
105	72	"	8548	J-9161-5	
34	83	"	8545	"	
115	102	"	8539	"	
69	120	"	8542	J-9161-5	
58	123	"	8541	J-9161-5	
84	131	"	8488	"	
70	133	"	8490	J-9161-5	
83	134	"	8480	"	
97	142	"	8487	"	
1	170	"	7927	J-9161-2	
80	173	"	7928	"	
1	178	"	7925	"	
6	187	"	7924	"	
4	15	"	8540	J-9161-5	
115	32	"	8538	"	
122	35	"	8020	J-9161-2	
111	42	"	8008	J-9161-2	
98	47	"	8009	J-9161-2	
104	47	"	8004	"	
98	49	"	8005	"	
112	49	"	8011	"	
87	54	"	8012	"	
132	55	"	8013	"	
103	64	"	8546	J-9161-5	
125	64	"	8508	"	
150	67	"	8504	"	
133	68	"	8514	"	
137	68	"	8513	"	
132	69	"	8510	"	
138	69	"	8515	"	
139	70	"	8517	"	
141	76	"	8516	"	
141	78	"	8518	"	

119	82	"	8528	J-9161-5	345626
125	84	"	8006	J-9161-2	
109	108	"	8525	J-9161-5	
122	117	"	8479	J-9161-5	
98	127	"	8478	"	
120	127	"	8477	J-9161-5	
129	150	"	7926	J-9161-2	
100	157	"	7930	"	
105	158	"	7929	"	
77	24	"	8170	"	
110	51	"	8171	"	
90	71	"	8169	J-9161-2	
116	75	"	8178	"	
144	81	"	8482	J-9161-5	
148	83	"	8172	J-9161-2	
123	94	"	8173	J-9161-2	
118	95	"	8485	J-9161-5	
122	105	"	8491	"	
35	112	"	8492	"	
17	116	"	8454	J-9161-5	

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV835 2. Code Class ASME SEC. III CL2.
3. Item Description 1-1/2" CHECK VALVE
4. N-5 Package Number 1CH14-1 5. W.O. Number 891212
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.
8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE INSPECTION PROGRAM.

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

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

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JB (Initial) 7/26/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JB (Initial) 07/26/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JB (Initial) 07/26/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JB (Initial) 07/26/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV835	N/A	26454	N/A	N/A

19. Planner James A. Boulanger (Signature) 07/26/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer Alan Morrow (Signature) 8-3-99 (Date) Print Name Alan Morrow
21. ANII B Hogstrom (Signature) 8-3-99 (Date) Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/26/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891212 (Work Order Number)

3. Work Performed by Arizona Public Service Company, et al. (Name) — Type Code Symbol Stamp None

   P.O. Box 53999. Phoenix, Arizona 85072-2034 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL2

5. (a) Applicable Construction Code Section III, Cl2 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Borg Warner	26454	N/A	1PCHNV835	1979	Replaced	Yes

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

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A WO# 891212

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ESI ENGINEER (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-3-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date October 15 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV802 2. Code Class ASME SEC. III CL1.
3. Item Description 1" CHECK VALVE
4. N-5 Package Number 1CH14-2 5. W.O. Number 891524
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.
8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE INSPECTION PROGRAM.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____ Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
WORK REQUIRED FOR VALVE DISASSEMBLY TO ALLOW FOR CHECK VALVE INSPECTION.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JLB (Initial) 8/3/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JLB (Initial) 07/27/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JLB (Initial) 07/27/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JLB (Initial) 07/27/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV802	N/A	27660	N/A	N/A

19. Planner James C. Boulanger (Signature) 07/27/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer Alan Morrow (Signature) 8-3-99 (Date) Print Name Alan Morrow
21. ANII Bob Hogstrom (Signature) 8-3-99 (Date) Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 07/27/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891524 (Work Order Number)

3. Work Performed by Arizona Public Service Company, et al. (Name) — Type Code Symbol Stamp None

   P.O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL 1

5. (a) Applicable Construction Code Section III, CL 1 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Borg Warner	27660	N/A	1PCHNV802	1978	Replaced	Yes

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

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A WO# 891524

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10/15/99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-3-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

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. (Name) — Date 07/28/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 891616 (Work Order Number)

3. Work Performed by Arizona Public Service Company, et al. (Name) — Type Code Symbol Stamp None

   P.O. Box 53999, Phoenix, Arizona 85072-2034 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH, Chemical Volume Control System ASME SEC. III CL1

5. (a) Applicable Construction Code Section III, CL1 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Borg Warner	67192	N/A	1PCHNV868	1981	Replaced	Yes

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

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHNV868 2. Code Class ASME SEC. III CL1.
3. Item Description 1" CHECK VALVE
4. N-5 Package Number 1CH14-2 5. W.O. Number 891616
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.
8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE INSPECTION PROGRAM.

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

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

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JCB (Initial) 7/28/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JCB (Initial) 07/28/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JCB (Initial) 07/28/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JCB (Initial) 07/28/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHNV868	N/A	67192	N/A	N/A

19. Planner [signature] (Signature) 07/28/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer Alan Morrow (Signature) 8-3-99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 8-3-99 (Date) Print Name BOB HOGSTROM

PV-E0093 Ver. 4

73OP-9ZZ17

FORM NIS-2 (Back)

9. Remarks N/A WO# 891616

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-20-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-3-99 to 10-20-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date October 20 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PSPAL080 SPOOL S-035 2. Code Class ASME SECTION III CLASS 3
3. Item Description SPOOL S-035 OF 1PSPAL080
4. N-5 Package Number 1SP01-2 5. W.O. Number 895234
6. Original Construction Code Edition 1974 EDITION & WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION & WINTER 1975 ADDENDA
8. Work Description REPLACE SPOOL TO ALLOW ENGINEERING TO DESTRUCTIVELY EXAMINE THE REMOVED SPOOL

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.
UNABLE TO EXAMINE THE SPOOL WHILE IN SERVICE. THEREFORE INSTALLING A NEW SPOOL

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

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

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

DB (Initial) 09/10/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DB (Initial) 09/10/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DB (Initial) 09/10/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
10" PIPE	N/A	N/A	RY2672	350104-1
10" WN FLANGE	N/A	N/A	DAB9	350104-2
STUDS	N/A	N/A	NQY	350104-13
NUTS	N/A	N/A	8077124	350104-3

19. Planner [signature] 09/09/99 (Date) Print Name David L. Brunson
20. ISI Engineer [signature] 9/14/99 (Date) Print Name Alan Morrow
21. ANII [signature] (Date) Print Name [illegible]

PV-E0003 Ver. 1

73DP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 09/10/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00895234 (Work Order Number)

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

   5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System SP, ASME Section III, Class 3

5. (a) Applicable Construction Code Section III, Class 3 1974 Edition, S'75 Addenda, _____ Code Case

   (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1974 Edition, W'75 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
1-SP-080-S-035	Pullman Power Products	1-SP-080-S-035	N/A	1PSPAL080	1979	Replaced	No

7. Description of Work _____

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

   Exempt ☐ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WORK ORDER 895234

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] (Owner or Owner's Designee, Title) Date 10-15-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-10-99 to 10-15-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 15 1999

ASME SECTION XI – REPAIR/REPLACEMENT

1. Component ID: 1PRCEL063
2. Code Class: ASME SECTION III, CL 1
3. Item Descripton: REACTOR VESSEL TO STEAM GENERATOR #2 HOT LEG PIPING
4. N-5 Package Number: 1RC01-4
5. W.O. Number: 00899157
6. Origional Construction Code Edition: ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADD.
7. Origional Installation Code Edition: ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADD.

8. Work Description

Half nozzle repair of pressure measurement nozzle, located on RCS Hot Leg 1PRCEL063 upstream of Root valve 1PRCAV285 and PDT 125A, per DFWO disposition.

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

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

Weld repair needed due to the identification of leakage. Half nozzle replacement will be performed per DFWO 00899157 disposition by welding a ASME Sec. III, Class 2, nozzle, made from SB166 gr. I-690, to the RCS Hot Leg with an ASME Section III, Class 1 weld.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Item Construction Code/Edition: N/A
13. Repair/Replacement Activity Construction Code/Edition: ASME Section III, Class 1, 1974, Winter '75 Add.
14. ASME Section XI Code/Edition: 1992 Edition, 1992 Add.
15. Preservice Inspection Required. ☐ YES ☑ NO

Initial 10/13/99 Date — If required, include a step in the W.O. to perform Preservice Inspection..

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

Initial 10/13/99 Date — If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 10/13/99 Date — 17. Include a step in the W.O. to complete an NIS-2 Form prior to releasing the Component

Initial 10/13/99 Date — 18. Include a step in the W.O. to record below, all applicable numbers for repaired or replaced items

COMP ID	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
HALF NOZZLE	* N/A	N/A	131968	MR 361332-0002
	*APN436L-0094			

19. Planner — Signature — 10/13/99 Date — Print Name: HERBERT GREEN
20. ISI Engineer — Signature: Alan Morrow — 10/13/99 Date — Print Name: Alan Morrow
21. ANII — Signature — 10/13/99 Date — Print Name: ROBERT HOLGSTROM

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. (Name) — Date 10/07/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00899157 (Work Order Number)

3. Work Performed by Arizona Public Service Company (Name) — Type Code Symbol Stamp None

   P.O. Box 53999, Phoenix, AZ 85020 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant System. Hot Leg, Line 1PRCEL063. Spool S001.

5. (a) Applicable Construction Code ASME Sec. III 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Reactor Coolant Hot Leg #2	Combustion Engineering	771-501	N/A	1PRCEL063	1978	Repaired	Yes

7. Description of Work Perform ASME, Class 1, weld for half nozzle repair per DFWO 00899157.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Performed half nozzle repair of the pressure measurement nozzle locacted in the RCS Hot Leg upstream of instrumant root valve 1PRCAV285 and Pressure Differential Transmitter PDT 125A. All repairs performed as directed by DFWO 00899157.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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 (Owner or Owner's Designee, Title) Date 10-21-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-13-99 to 10-21-99, 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. Anderson (Inspector's Signature) Commissions NB 9685 "N" "I" Az 264 (National Board, State, Province, and Endorsements)

Date October 21 1999

ASME SECTION XI – REPAIR/REPLACEMENT

1. Component ID: 1PRCEL032
2. Code Class: ASME SECTION III, CL 1
3. Item Descripton: REACTOR VESSEL TO STEAM GENERATOR #1 HOT LEG PIPING
4. N-5 Package Number: 1RC01-4
5. W.O. Number: 00899536
6. Origional Construction Code Edition: ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADD.
7. Origional Installation Code Edition: ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADD.

8. Work Description

Half nozzle repair of pressure measurement nozzle, located on RCS Hot Leg 1PRCEL032 upstream of Root valve 1PRCAV277 and PDT 115A, per DFWO disposition.

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

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

Weld repair needed due to the identification of leakage. Half nozzle replacement will be performed per DFWO 00899536 disposition by welding a ASME Sec. III, Class 2, nozzle, made from SB166 gr. I-690, to the RCS Hot Leg with an ASME Section III, Class 1 weld.

11. Repair/Replacement Work Organization: Arizona Public Service
12. Replacement Item Construction Code/Edition: N/A
13. Repair/Replacement Activity Construction Code/Edition: ASME Section III, Class 1. 1974. Winter '75 Add.
14. ASME Section XI Code/Edition: 1992 Edition, 1992 Add.
15. Preservice Inspection Required. ☐ YES ☑ NO

HH Initial — 10/13/99 Date — If required, include a step in the W.O. to perform Preservice Inspection..

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

HH Initial — 10/13/99 Date — If required, include a step in the W.O. for ISI & ANII Inspection.

HH Initial — 10/13/99 Date — 17. Include a step in the W.O. to complete an NIS-2 Form prior to releasing the Component

HH Initial — 10/13/99 Date — 18. Include a step in the W.O. to record below, all applicable numbers for repaired or replaced items

COMP ID	PART NO.	SERIAL NO.	HEAT NO.	ROS/EROS NO.
HALF NOZZLE	* N/A	N/A	131968	MR 361332-0002
	*APN4361-0094			

Planner — Signature — 10/13/99 Date — Print Name: HERBERT GREEN

20. ISI Engineer — Signature — 10-13/99 Date — Print Name: Alan Morrow

21. ANII — Signature — 10-13-99 Date — Print Name: R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/07/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 00899536 (Work Order Number)

3. Work Performed by Arizona Public Service Company (Name) — Type Code Symbol Stamp None

   P.O. Box 53999, Phoenix, AZ 85020 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Reactor Coolant System, Hot Leg, Line 1PRCEL032, Spool S001.

5. (a) Applicable Construction Code ASME Sec. III 1974 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
eactor Coolant Hot Leg #1	Combustion Engineering	771-301	N/A	1PRCEL032	1978	Repaired	Yes

7. Description of Work Perform ASME, Class 1, weld for half nozzle repair per DFWO 00899536.

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Performed half nozzle repair of the pressure measurement nozzle locacted in the RCS Hot Leg upstream of instrumant root valve 1PRCAV277 and Pressure Differential Transmitter PDT 115A. All repairs performed as directed by DFWO 00899536.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-22-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-13-99 to 10-22-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 22 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1MEWBE01 2. Code Class ASME III Class 3
3. Item Description Essential Cooling Water Heat Exchanger Train B
4. N-5 Package Number 1EW02-1 5. W.O. Number 901641
6. Original Construction Code Edition 1974 Edition & '75 Winter Addenda
7. Original Installation Code Edition 1974 Edition & '75 Winter Addenda
8. Work Description Perform weld Overlay/Buildup of Corrosion Pits in the East and West Channel Heads per the DFWO Disposition.

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.
N/A

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition Section III Class 3 / '74 ED. & '75 W. Add.
13. Repair/Replacement Activity Construction Code/Edition Section III Class 3 / '74 ED. & '75 W. Add.
14. ASME Section XI Code/Edition 1992 Edition & 1992 Addenda
15. Preservice Inspection Required. ☐ YES ☑ NO

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

16. ASME Section XI Pressure Test Required ☑ YES ☒ NO KOS 10/23/99

KOS (Initial) 10/23/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

KOS (Initial) 10/23/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

N/A (Initial) N/A (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1MEWBE01	N/A	17606329132	N/A	N/A

19. Planner [signature] (Signature) 10/23/99 (Date) Print Name Karl V. Savage
20. ISI Engineer [signature] (Signature) 10/23/99 (Date) Print Name Alan Morrow
21. ANII [signature] (Signature) 10/23/99 (Date) Print Name Robert Hogstrom

FORM NIS-2 (Back)

9. Remarks Weld Repair Corrosion Induced Pitting. WO# 901641

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this repair (repair or 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] ISI Engineer (Owner or Owner's Designee, Title) Date 10-27-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-23-99 to 10-27-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB9685 "N" "I" AZ 264 (National Board, State, Province, and Endorsements)

Date October 27 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PCHEV757 2. Code Class SEC. III CL. 2
3. Item Description 3" DIAPHRAGM VALVE
4. N-5 Package Number 1CH04-3 5. W.O. Number 902289
6. Original Construction Code Edition ASME SEC III CL2/ '74 EDITION, S '75 ADDENDA
7. Original Installation Code Edition ASME SEC III CL2/ '74 EDITION, W '75 ADDENDA
8. Work Description REPLACED DIAPHRAGM WITH NEW (LIKE FOR LIKE)

9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
REPLACED DIAPHRAGM WITH NEW (LIKE FOR LIKE)

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME SEC III CL2/W '74 EDITION, '75
13. Repair/Replacement Activity Construction Code/Edition ASME SEC III CL2/W '74 EDITION, '75
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO
JB (Initial) 10/25/99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JB (Initial) 10/25/99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JB (Initial) 10/25/99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JB (Initial) 10/25/99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PCHEV757	018993	Valve SN 77-2075-6-4	N/A	MR# 00368121

19. Planner [signature] (Signature) 10/25/99 (Date) Print Name JIM BOULANGER
20. ISI Engineer [signature] (Signature) 10/25/99 (Date) Print Name WILEY AKLSTROM
21. ANII [signature] (Signature) 10/25/99 (Date) Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/25/99

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 902289 (Work Order Number)

3. Work Performed by APS (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd.. Tonopah. Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System CH. ASME SEC. III CL 2

5. (a) Applicable Construction Code SEC. III CL. 2 1974 Edition, '75 W Addenda, 15401 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
DIAPHRAGM	ITT GRINNEL	N/A	N/A	1PCHEV757	1999	Replaced	No

7. Description of Work Replaced diaphragm with new (like for like)

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

   Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks 3" Diaphragm replacement WO# 902289

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (repair or 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] ISI ENGINEER (Owner or Owner's Designee, Title) Date 10-26-99

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-25-99 to 10-26-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB 9685 "N" "1" Az. 264 (National Board, State, Province, and Endorsements)

Date October 26 1999

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 1PFPEV090 2. Code Class ASME SECT. IIICL2 1974w/W75
3. Item Description TACK WELD HINGE SUPPORT TO BONNET
4. N-5 Package Number _____ 5. W.O. Number 902589
6. Original Construction Code Edition ASME SECT. III CL 2 1974 ED. W 75 ADD.
7. Original Installation Code Edition ASME SECT. III CL 2 1974 ED. W 75 ADD.
8. Work Description TWO UNDER SIZE AND ONE MISSING TACK WELD, REWORK TO DWG. P221B-146

9. [ ] ISI Flaw NO NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
NO WELD FAILURE INVOLVED

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III CL 2 1974 ED. W 75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III CL 2 1974 ED. W 75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION 1992 ADDENDA
15. Preservice Inspection Required. [ ] YES [✓] NO
RLB (Initial) 10-30-99 (Date) If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required [ ] YES [✓] NO
N/A RLB (Initial) 10-30-99 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MJ (Initial) 10-30-99 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
N/A MJ (Initial) 10-30-99 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1PFPEV090	N/A	N/A	N/A	N/A

19. Planner [signature] (Signature) 10-30-99 (Date) Print Name MICHAEL JENKINS
20. ISI Engineer RLB (Signature) 10-30-99 (Date) Print Name Robert L Bizrowski
21. ANII PER TELCON BOB HOGSTROM (Signature) MJ 10-30-99 10-30-99 (Date) Print Name ROBERT HOGSTROM

PV-E0093 Ver. 4 73OP-9ZZ17

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) — Date 10/30/31

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

2. Plant Palo Verde Nuclear Generating Station (Name) — Unit 1

   5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) — 902589 (Work Order Number)

3. Work Performed by Arizona Public Service Co. (Name) — Type Code Symbol Stamp None

   5801 S. Wintersburg Rd., Tonopah Arizona 85354-7529 (Address) — Authorization No. N/A — Expiration Date N/A

4. Identification of System Fire Protection

5. (a) Applicable Construction Code ASME III Class 2 1974 Edition, 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 Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Anchor Darling	E6374-4-1	N/A	1PFPEV090	1979	Replacement 10 31 97	Yes

7. Description of Work REWELD, TACK WELDS TO DWG. CONFIGURATION

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

   Exempt ☑ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO 902589 ONE MISSING TASK WELD AND TWO UNDERSIZE.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Morrow Sr ISI Engineer Date 11-1-99
(Owner or Owner's Designee, Title)

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-30-99 to 11-1-99, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date ~~Oct~~ 1st on 99 NOVEMBER 1 1999

ENCLOSURE 2

FIRST 10-YEAR ISI INTERVAL

SUMMARY REPORT

EIGHTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

PALO VERDE NUCLEAR GENERATING STATION

UNIT 1

FIRST INTERVAL

INSERVICE INSPECTION

SUMMARY REPORT

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

PREPARED BY: _____ DATE: 1/21/00

REVIEWED BY: _____ DATE: 1-25-00

APPROVED BY: _____ DATE: 1/27/00

COMMERCIAL SERVICE DATE: 01/28/86
REPORT DATE: 01/21/00

TABLE OF CONTENTS

SECTION	PAGE
1.0 INTRODUCTION	3
2.0 EXAMINATION SUMMARY	3
3.0 EXAMINATION TECHNIQUES	4
4.0 ACCESSIBILITY	4
5.0 PERSONNEL	4
6.0 EQUIPMENT AND MATERIALS	4
7.0 REPAIRS AND REPLACEMENTS	5

APPENDICES

APPENDIX	PAGE
APPENDIX A - Inservice Inspection Summary Report	6
APPENDIX B - Inservice Inspection Code Limitations	63
APPENDIX C - Form NIS-1	65

UNIT 1 INSERVICE INSPECTION REPORT

1.0 Introduction

1.1 This report is a summary of the examinations performed during the Eighth Inservice Inspection (ISI) at the Palo Verde Nuclear Generating Station (PVNGS) Unit 1. This report also includes all applicable examinations conducted since the last summary report. Reactor Vessel Exams and Reactor Head Vent System pressure tests were conducted during the eighth refueling outage from October 2, 1999 through November 9, 1999 to complete the First Interval, Period 3 examination requirements. The deferral of first interval reactor vessel exams was approved for Relief Request No. 10, Ref: NRC letter dated October 16, 1997 from W. H. Bateman to J. M. Levine, "Examinations First Ten-Year Inservice Inspection Interval (Relief Request No. 10) for the Palo Verde Nuclear Generating Station, Unit 1, TAC No. M99104". The deferral of pressure tests of the Reactor Head Vent System was submitted in Relief Request No. 11, Ref: APS letter dated July 16, 1999 from W. E. Ide to U. S. NRC, Docket No. STN 50-528. Palo Verde Unit 1 began commercial operation on January 28, 1986.

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

1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.
2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.
3. Augmented examinations of Class 2 Safety Injection Piping systems in accordance with 10 CFR 50.55a.

1.3 This report is a compilation of the First Interval Period 1, Period 2 and Period 3 ISI examinations, excluding those for ASME Class 3 components and systems. All of the examination report numbers listed in Appendix A for the Eighth Refueling and examinations performed since the last Summary Report are numbered with 98-1XXX or 99-1XXX and are in bold type.

2.0 Examination Summary

2.1 The evaluation of the results from the ISI examinations indicated the integrity of the systems have been maintained. There were no rejectable or abnormal indications found during this ISI inspection activity.

2.2 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
	VT-4	Operability
S - Surface	PT	Liquid Penetrant
	MT	Magnetic Particle
	ET	Eddy Current
VOL - Volumetric	UT	Ultrasonic
	RT	Radiographic

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

4.0 Accessibility

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

5.0 Personnel

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

7.1 There were no rejectable or abnormal indications noted during this ISI activity.

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	Vol	Reports Surf	Visual	Remarks
AHE5.11 & AHE 5.12	51 Bypass V180	Two	20	20	51-101	92-1391	92-1360		
					51-102	92-1392	92-1360		
					51-103	92-1393	92-1360		
					51-104	92-1394	92-1360		
					51-105	92-1395	92-1360		
					51-106	92-1396	92-1360		
					51-107	92-1397	92-1360		
					51-108	92-1398	92-1360		
					51-109	92-1399	92-1360		
					51-110	92-1400	92-1360		
					51-111	92-1401	92-1360		
					51-112	92-1402	92-1360		
					51-113	92-1403	92-1360		
					51-114	92-1404	92-1360		
					51-115	92-1405	92-1360		
					51-116	92-1406	92-1360		
					51-117	92-1407	92-1360		
					51-118	92-1408	92-1360		
					51-119	92-1409	92-1360		
					51-120	92-1410	92-1360		
					51-121	92-1411	92-1360		
	52 Atmos. Dump No. 2	Three	21	21	52-101	95-1396	95-1357		
					52-102	95-1397	95-1357		
					52-103	95-1398	95-1357		
					52-104	95-1399	95-1357		
					52-105	95-1400	95-1357		
					52-106	95-1401	95-1357		
					52-107	95-1402	95-1357		
					52-108	95-1403	95-1357		
					52-109	95-1404	95-1357		
					52-110	95-1405	95-1357		
					52-111	95-1406	95-1357		
					52-111A	95-1407	95-1357		
					52-112	95-1408	95-1357		
					52-113	95-1409	95-1357		
					52-114	95-1410	95-1357		
					52-115	95-1411	95-1357		
					52-116	95-1412	95-1357		
					52-117	95-1413	95-1357		
					52-118	95-1414	95-1357		
					52-119	95-1415	95-1357		
					52-120	95-1416	95-1357		
	53 Steam to Aux FW	One	10	10	53-11	87-1415	87-1381		
					53-12	87-1416	87-1381		
					53-13	87-1417	87-1381		
					53-14	87-1418	87-1381		
					53-15	87-1419	87-1381		
					53-21	87-1420	87-1381		
					53-22	87-1421	87-1381		
					53-23	87-1422	87-1381		
					53-24	87-1423	87-1381		

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
					53-25	87-1424	87-1381		
		Two	9	9	53-1	92-1438	92-1382		
					53-2	92-1439	92-1414		
					53-4	92-1440	92-1414		
					53-5	92-1441	92-1414		
					53-6	92-1442	92-1414		
					53-7	92-1443	92-1414		
					53-8	92-1444	92-1414		
					53-9	92-1445	92-1414		
					53-10	92-1446	92-1414		
		Three	9	9	53-26	95-1308	95-1215		
					53-27	95-1309	95-1215		
					53-28	95-1310	95-1215		
					53-29	95-1311	95-1215		
					53-30	95-1312	95-1215		
					53-31	95-1313	95-1215		
					53-32	95-1314	95-1215		
					53-34	95-1315	95-1215		
					53-35	95-1316	95-1215		
AHE 5.21 & 5.22	47 MS SG1 West	One	13	13	47-1	87-1413	87-1374		
					47-2	87-1414	87-1374		
					47-4	87-1440	87-1374		
					47-8	87-1441	87-1374		
					47-12	87-1442	87-1374		
					47-14A	87-1382	87-1373		
					47-16	87-1443	87-1373		
					47-20	87-1444	87-1373		
					47-24	87-1385	87-1396		
					47-25	87-1386	87-1373		
					47-28	87-1391	87-1373		
					47-29	87-1392	87-1373		
					47-30	87-1387	87-1373		
		Two	0	0	47-4	93-1325	93-1177		
					47-8	93-1324	93-1177		
					47-12	93-1323	93-1177		
					47-16	93-1322	93-1177		
					47-20	93-1321	93-1177		
	48 MS SG1 East	Two	13	13	48-1	92-1415	92-1380		
					48-2	92-1416	92-1380		
					48-4	92-1417	92-1380		
						93-1320	93-1180		
					48-8	92-1418	92-1380		
						93-1319	93-1180		
					48-12	92-1419	92-1380		
						93-1318	93-1180		
					48-14A	92-1420	92-1380		
					48-16	92-1421	92-1359		
						93-1317	93-1180		
					48-20	92-1422	92-1359		
						93-1316	93-1180		
					48-24	92-1423	92-1381		

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
						92-1437			
					48-25	92-1424	92-1381		Reject (surf)
							92-1474		Re-exam
					48-28	92-1452	92-1380		
					48-29	92-1453	92-1380		
					48-30	92-1427	92-1380		
	49 MS SG2 East	Two	0	0	49-4	93-1283	93-1179		
					49-8	93-1282	93-1179		
					49-12	93-1281	93-1179		
					49-16	93-1280	93-1179		
					49-20	93-1279	93-1179		
		Three	13	13	49-1	95-1285	95-1270		
						95-1286			
					49-2	95-1287	95-1271		
						95-1288	95-1336		Reject (surf)
							95-1338		Re-exam
							96-1529		Re-exam (long seam)
					49-4	95-1347	95-1271		
					49-8	95-1348	95-1271		
					49-12	95-1349	95-1271		
					49-14A	95-1274	95-1272		
						95-1275	95-1273		
					49-16	95-1350	95-1271		
					49-20	95-1351	95-1271		
					49-24	95-1279	95-1272		
						95-1280	95-1271		
					49-25	95-1281	95-1272		
					49-28	95-1363	95-1271		
					49-29	95-1364	95-1271		
					49-30	95-1283	95-1272		
	50 MS SG2 West	Two	0	0	50-4	93-1278	93-1176		
					50-8	93-1277	93-1176		
					50-12	93-1276	93-1176		
						93-1409			
					50-16	93-1275	93-1176		
					50-20	93-1274	93-1176		
		Three	13	13	50-1	95-1376	95-1297		
						95-1377	95-1297		
					50-2	95-1378	95-1297		
						95-1379	95-1297		
					50-4	95-1352	95-1297		
					50-8	95-1353	95-1297		
					50-12	95-1354	95-1297		
					50-14A	95-1383	95-1297		
						95-1384	95-1297		
					50-16	95-1355	95-1297		
					50-20	95-1356	95-1297		
					50-24	95-1299	95-1298		
						95-1300	95-1298		
					50-25	95-1301	95-1298		
					50-28	95-1358	95-1297		

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
					50-29	95-1359	95-1297		
					50-30	95-1302	95-1298		
	51 Atmos Dump SG 1	One	13	13	51-1	87-1393	87-1377		
					51-2	87-1399	87-1378		
					51-3	87-1394	87-1378		
					51-4	87-1395	87-1378		
					51-5	87-1400	87-1378		
					51-6	87-1401	87-1380		
					51-7	87-1402			MT inaccessible
					51-8A	87-1403			MT inaccessible
					51-8B	87-1404	87-1380		
					51-9	87-1405	87-1380		
					51-51	87-1406	87-1397		
					51-84	89-1013	89-1021		PSE/Block valve
					51-85	89-1014	89-1021		PSE/Block valve
					51-86	89-1015	89-1021		PSE/Block valve
					51-87	89-1016	89-1021		PSE/Block valve
		Two	14	14	51-26	92-1454	92-1357		
					51-27	92-1455	92-1357		
					51-28	92-1456	92-1451		
					51-29	92-1457	92-1451		
					51-30	92-1458	92-1357		
					51-31	92-1459	92-1357		
					51-32	92-1460	92-1357		
					51-33	92-1461	92-1357		Reject (surf)
							92-1449		Re-exam
					51-34	92-1462	92-1357		
					51-37	92-1465	92-1357		
					51-49	92-1466	92-1357		
					51-86	92-1467	92-1357		
					51-87	92-1468	92-1357		
					51-88	92-1469	92-1357		
	52 Atmos Dump SG 2	One	0	0	52-84	89-1017	89-1021		PSE/Block valve
					52-85	89-1018	89-1021		PSE/Block valve
					52-86	89-1019	89-1021		PSE/Block valve
					52-87	89-1020	89-1012		PSE/Block valve
		Three	29	29	52-1	95-1360	95-1307		
					52-2	95-1386	95-1307		
					52-3	95-1387	95-1303		
					52-4	95-1388	95-1307		
					52-5	95-1389	95-1307		
					52-6	95-1390	95-1307		
					52-7	95-1518	95-1442		
					52-8	95-1519	95-1442		
					52-9	95-1391	95-1307		
					52-10	95-1392	95-1307		
					52-27	95-1365	95-1307		
							96-1512		
					52-28	95-1366	95-1307		
					52-29	95-1520	95-1442		
					52-30	95-1521	95-1442		

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
					52-31	95-1367	95-1307		
					52-32	95-1368	95-1307		
					52-33	95-1369	95-1304		
					52-34	95-1370	95-1307		
					52-35	95-1393	95-1307		
					52-36		95-1307		
						98-1021	98-1022		
					52-37		95-1305		
							95-1307		
						98-1023	98-1022		
					52-38	95-1371	95-1305		
							95-1307		
					52-50	95-1394	95-1307		
					52-52	95-1372	95-1306		Reject (surf)
							95-1337		Re-exam
							96-1512		Re-exam
					52-84	95-1361	95-1307		
					52-85	95-1362	95-1307		
					52-86	95-1373	95-1307		
					52-87	95-1374	95-1307		
					52-88	95-1375	95-1307		
	56 FW SG 1	One	5	5	56-1	92-1504	92-1497		
					56-3	92-1505	92-1497		
					56-4	92-1506	92-1497		
					56-6	92-1507	92-1497		
					56-7	92-1508	92-1497		
		Two	2	2	56-9	92-1502	92-1496		
							92-1497		
					56-11	92-1503	92-1496		
	57 FW SG 2	Three	7	7	57-1	96-1559	96-1530		
					57-3	96-1560	96-1530		
					57-4	96-1561	96-1530		
					57-6	96-1555	96-1530		
					57-7	96-1556	96-1530		
					57-9	96-1557	96-1530		
					57-11	96-1558	96-1530		
	60 Downcomer FW SG 1	One	9	9	60-7	87-1425	87-1398		
					60-8	87-1426	87-1398		
					60-9	87-1427	87-1364		
					60-11	87-1428	87-1364		
					60-12		87-1364		UT inaccessible
					60-14	87-1429	87-1364		
					60-15	87-1430	87-1364		
					60-16	87-1431	87-1364		
					60-17	87-1432	87-1364		
		Two	5	5	60-2	92-1491	92-1499		
					60-3	92-1492	92-1499		
					60-4	92-1493	92-1499		
					60-5	92-1494	92-1499		
					60-6	92-1495	92-1499		
	61 Downcomer FW SG 2	Two	5	5	61-2	92-1367	92-1358		

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
					61-3	92-1368	92-1358		Reject (surf)
							92-1450		Re-exam
					61-4	92-1369	92-1358		Reject (surf)
							92-1450		Re-exam
					61-5	92-1370	92-1358		Reject (surf)
							92-1450		Re-exam
					61-6	92-1371	92-1358		
		Three	9	9	61-7	95-1318	95-1261		
					61-8	95-1319	95-1261		
					61-9	95-1320	95-1261		
					61-11	95-1580	95-1515		
					61-12	95-1581	95-1261		
							95-1515		
					61-14	95-1321	95-1261		
					61-15	95-1322	95-1261		
					61-16	95-1323	95-1261		
					61-17	95-1324	95-1261		
	66 Blowdown SG1	One	9	9	66-1	87-1370	87-1366		
					66-2	87-1407	87-1366		
					66-3		87-1366		UT Inaccessible
					66-5	87-1408	87-1366		
					66-6	87-1409	87-1366		
					66-7	87-1410	87-1366		
					66-8	87-1411	87-1366		
					66-9	87-1412	87-1366		
					66-26	87-1371	87-1366		
		Two	6	6	66-10	93-1329	93-1220		
					66-11	93-1330	93-1220		
					66-12	93-1331	93-1220		
					66-13	93-1332	93-1220		
					66-14	93-1333	93-1220		
					66-15	93-1334	93-1220		
	67 Blowdown SG2	Two	6	6	67-7	93-1335	93-1221		
					67-8	93-1340	93-1221		
					67-9	93-1336	93-1221		
					67-10	93-1337	93-1221		
					67-11	93-1338	93-1221		
					67-12	93-1339	93-1221		
		Three	6	6	67-1	95-1263	95-1262		
					67-2	95-1264	95-1262		
					67-3	95-1265	95-1262		
					67-3A		99-1024		
					67-5	95-1266	95-1262		
					67-6	95-1267	95-1262		
AHE 5.31 & AHE 5.32	47 MS SG1 West	One	7	7	47-3	87-1388	87-1374		
					47-7	87-1389	87-1374		
					47-11	87-1390	87-1374		
					47-15	87-1438	87-1373		
					47-19	87-1383	87-1373		
					47-23	87-1384	87-1373		
					47-27	87-1439	87-1373		

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
	48 MS SG1 East	Two	9	9	48-3	92-1428	92-1380		
					48-7	92-1429	92-1380		
					48-11	92-1430	92-1380		
					48-15	92-1431	92-1359		
					48-19	92-1432	92-1359		
					48-23	92-1433	92-1359		
							92-1380		
					48-27	92-1434	92-1380		
					48-34	92-1435	92-1380		
					48-35	92-1436	92-1380		
	49 Main Steam SG 2 East	Three	9	9	49-3	95-1289	95-1271		
					49-7	95-1290	95-1271		
					49-11	95-1291	95-1271		
					49-15	95-1276	95-1271		
					49-19	95-1277	95-1271		
					49-23	95-1278	95-1271		
					49-27	95-1282	95-1271		
					49-34	95-1292	95-1271		
					49-35	95-1284	95-1271		
	50 Main Steam SG 2 West	Three	7	7	50-3	95-1380	95-1297		
					50-7	95-1381	95-1297		
					50-11	95-1382	95-1297		
					50-15	95-1293	95-1297		
					50-19	95-1294	95-1297		
					50-23	95-1295	95-1297		
					50-27	95-1385	95-1297		
B 1.110	01 Reactor Vessel	Three	3	3	1-2	*			* Separate report by
					1-6	*			WesDyne
					1-10	*			
B 1.120	01 Reactor Vessel	Three	9	9	1-3	*			
					1-4	*			
					1-5	*			
					1-7	*			
					1-8	*			
					1-9	*			
					1-11	*			
					1-12	*			
					1-13	*			
B 1.22	02 Closure Head	One	33%	33%	2-4	87-1603	87-1598		
						87-1604			
						87-1605			
		Two	33%	33%	2-4	93-1141	93-1114		
						93-1142			
						93-1143			
		Three	34%	34%	2-4	95-1342			
						95-1344			
						95-1346			
B 1.30	01 Reactor Vessel	One	50%	50%	1-14	92-1331			
						92-1332			
						92-1333			
		Three	100%	100%	1-14	*			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 1.40	02 Closure Head	One	33%	33%	2-1	87-1603	87-1598		
						87-1604			
						87-1605			
		Two	33%	33%	2-1	93-1138	93-1114		
						93-1139			
						93-1140			
		Three	34%	34%	2-1	95-1341	95-1395		
						95-1343			
						95-1345			
B 2.11	05 PZR	One	33%	33%	5-2	89-1190			
B 2.12						89-1191			
						89-1192			
					5-8	89-1188			
						89-1199			
						89-1200			
		Two	33%	33%	5-2	93-1135			
						93-1136			
						93-1137			
					5-8	93-1230			
						93-1231			
						93-1232			
					5-6	93-1233			Long seam weld
						93-1234			for 5-8, 1 ft. min.
						93-1235			
		Three	33%	33%	5-2	96-1263			
						96-1264			
						96-1265			
					5-3	98-1059			Long seam weld
						98-1060			for 5-2, 1 ft. min.
						98-1061			
					5-8	96-1361			
						96-1362			
						96-1363			
						98-1062			
						98-1063			
						98-1064			
B 2.31	03 SG1	One	1	1	3-5	89-1222			
						89-1216			
						89-1210			
		Two	1	1	3-2	93-1023			
						93-1024			
						93-1025			
		Three	2*	2*	3-17	96-1381			*Stay Cylinder Exam
						96-1384			
						96-1387			
					3-18	96-1382			
						96-1385			
						96-1388			
	04 SG2	One	1	1	4-2	89-1146			
						89-1147			
						89-1148			

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	1	1	4-5	93-1038			
						93-1039			
						93-1040			
		Three	2*	2*	4-17	96-1484			*Stay Cylinder Exam
						96-1487			
						96-1490			
					4-18	96-1483			
						96-1486			
						96-1489			
B 2.32	03 SG1	One	4	4	3-10	89-1224			
						89-1218			
						89-1212			
					3-11	89-1225			
						89-1219			
						89-1213			
					3-12	89-1226			
						89-1220			
						89-1214			
					3-13	89-1227			
						89-1221			
						89-1215			
		Two	1	1	3-4	93-1020			
						93-1021			
						93-1022			
		Three	1	1	3-3	96-1204			
						96-1206			
						96-1208			
	04 SG2	Two	5	5	4-4	93-1031			
						93-1032			
						93-1033			
					4-10	93-1038			
						93-1039			
						93-1040			
					4-11	93-1038			
						93-1039			
						93-1040			
					4-12	93-1038			
						93-1039			
						93-1040			
					4-13	93-1038			
						93-1039			
						93-1040			
		Three	1	1	4-3	96-1210			
						96-1213			
						96-1215			
B 2.40	03 SG1	One	1	1	3-6	89-1223			
						89-1217			
						89-1211			
		Three	1*	1*	3-19	96-1383			*Stay Cylinder Exam
						96-1386			
						96-1389			

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
	04 SG2	Two	1	1	4-6	93-1035			
						93-1036			
						93-1037			
		Three	1*	1*	4-19	96-1482			*Stay Cylinder Exam
						96-1485			
						96-1488			
B 3.90	01 Reactor Vessel	One	2	2	1-15	89-W*			* Seperate Report
					1-18	89-W*			by Westinghouse
		Three	4	4	1-16	**			**Separate report by
					1-17	**			Wesdyne
					1-19	**			
					1-20	**			
B 3.100	01 Reactor Vessel	One	2	2	1-15	89-W*			
					1-18	89-W*			
		Three	4	4	1-16	**			
					1-17	**			
					1-19	**			
					1-20	**			
B 3.110	05 Pressurizer	One	2	2	5-11	89-1189			
						89-1201			
						89-1202			
					5-9	89-1236			
						89-1237			
						89-1238			
		Two	2	2	5-10	93-1224			
						93-1225			
						93-1226			
					5-13	93-1227			
						93-1228			
						93-1229			
		Three	2	2	5-12	98-1065			
						98-1066			
						98-1067			
					5-14	98-1068			
						98-1069			
						98-1070			
B 3.120	05 Pressurizer	One	2	2	5-11	89-1234			Nozzle Inner Radius
					5-9	89-1235			Nozzle Inner Radius
		Two	2	2	5-10	93-1237			Nozzle Inner Radius
					5-13	93-1236			Nozzle Inner Radius
		Three	2	2	5-10	95-1226			Nozzle Inner Radius
						95-1224			Nozzle Bore
						95-1225			Nozzle Bore
					5-12	96-1301			Nozzle Inner Radius
					5-14	96-1302			Nozzle Inner Radius
B 3.130	03 Steam Generator 1	One	1	1	3-9	89-1163			
						89-1164			
		Two	1	1	3-7	93-1017			
						93-1018			
						93-1019			
		Three	1	1	3-8	96-1205			

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
						96-1207			
						96-1209			
	04 Steam Generator 2	One	1	1	4-9	89-1149			
						89-1150			
						89-1151			
		Two	1	1	4-7	93-1028			
						93-1029			
						93-1030			
		Three	1	1	4-8	96-1214			
						96-1216			
						96-1211			
B 3.140	03 Steam Generator 1	One	1	1	3-9	89-1182			Nozzle Inner Radius
		Two	1	1	3-7	93-1009			Nozzle Inner Radius
		Three	1	1	3-8	96-1222			Nozzle Inner Radius
	04 Steam Generator 2	One	1	1	4-9	89-1183			Nozzle Inner Radius
		Two	1	1	4-7	93-1010			Nozzle Inner Radius
		Three	1	1	4-8	96-1221			Nozzle Inner Radius
B 4.12	02 Closure Head	One	8	8	CEDM			90-1032	
		Two	8	8	CEDM			92-1558	
		Three	9	9	CEDM			95-1579	
B 4.13	01 Reactor Vessel	One	5	5	ICI			90-1032	
		Two	5	5	ICI			92-1558	
		Three	6	6	ICI			95-1579	
B 4.20	05 PZR	One	3	3	HTRS			90-1032	
		Two	3	3	HTRS			92-1558	
		Three	3	3	HTRS			95-1579	
B 5.40	20 PZR Surge	One	1	1	5-34	89-1233	89-1073		
	29 PZR Spray	Two	1	1	5-33	93-1202	93-1105		
						93-1222			
						93-1368*			*RT Supplemental
	31 PZR Safeties	One	1	1	5-29	87-1584	87-1526		
		Two	1	1	5-31	93-1197	93-1104		
		Three	2	2	5-30	98-1056	96-1036		
					5-32	98-1055	96-1036		
B 5.130	20 PZR Surge	Three	1	1	6-4	96-1303	96-1244		
						96-1518			
	21 Shutdown Cooling 1	One	1	1	6-11	89-1186	89-1170		
	22 Shutdown Cooling 2	Two	1	1	7-9	93-1095	93-1106		
						93-1096			
	23 Safety Injection 1A	One	1	1	9-10	89-1205	89-1107		
	24 Safety Injection 1B	Three	1	1	11-10	95-1026	95-1024		
	25 Safety Injection 2A	Two	1	1	13-10	93-1047	93-1008		
						93-1048			
	26 Safety Injection 2B	Three	1	1	15-9	95-1027	95-1025		
B 5.140	27 PZR Spray 1A	One	1	1	9-11	90-1020	89-1108		
	28 PZR Spray 1B	Two	1	1	11-11		93-1395		
	32 Drain Line 1A	One	1	1	8-18		87-1546		
	33 Drain Line 1B	Two	1	1	10-18		92-1316		
	34 Drain Line 2A	Three	1	1	12-18		95-1032		
	36 Letdown Line	Three	1	1	14-18		96-1308		
	37 Charging Line	Two	1	1	13-11	93-1369*	93-1102		*RT Supplemental

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
		Three	0	0	13-11	98-1081	98-1080		IN 97-19
B 6.10	02 Closure Head Nuts	One	18	18	1 thru 18		89-1042		
							89-1045		
		Two	18	18	19 thru 36	92-1373	92-1365		
							92-1480		PSE #25
		Three	18	18	37 thru 54		95-1419		
B 6.30	02 Closure Head Studs	One	18	18	1 thru 18	89-1034	89-1041		
							89-1044		
		Two	18	18	19 thru 36	92-1372	92-1364		
							92-1363		
						92-1544	92-1543		PSE #8
		Three	18	18	37 thru 54	95-1339	95-1433		
B 6.40	01 Reactor Vessel Flange	Three	54	54	1 thru 54	98-1035			
						*			* Separate report by
B 6.50	02 Closure Head Washers	One	18	18	1 thru 18			89-1043	WesDyne
		Two	18	18	19 thru 36			92-1366	
								92-1481	PSE #25
		Three	18	18	37 thru 54			95-1340	
B 6.180	16 RCP 1A Flange Studs	One	5	5	1 thru 16	87-1640	87-1633	87-1632	Visual/IEB 82-02
								89-1010	
								89-1011	
		Two	5	5	1 thru 16	93-1187		93-1158	
		Three	6	6	1 thru 16	96-1276	96-1273		
						96-1323	96-1321		
						96-1324	96-1322	96-1605	
					1 thru 16			98-1024	
	17 RCP 1B Flange Studs	One	5	5	1 thru 16	86-185	86-186		PSE
						87-1641	87-1619	87-1618	Visual/IEB 82-02
							87-1634	87-1635	Visual/IEB 82-02
								89-1010	
								89-1011	
		Two	5	5	1 thru 16	93-1188		93-1160	
		Three	6	6	1 thru 16	96-1278	96-1275		
						96-1323	96-1321		
						96-1324	96-1322	96-1606	
					1 thru 16			98-1024	
	18 RCP 2A Flange Studs	One	5	5	1 thru 16	87-1642	87-1613	87-1614	Visual/IEB 82-02
								89-1010	
								89-1011	
		Two	5	5	1 thru 16	93-1189		93-1159	
		Three	6	6	1 thru 16	96-1277	96-1274		
						96-1323	96-1321		
						96-1324	96-1322	96-1607	
					1 thru 16			98-1024	
	19 RCP 2B Flange Studs	One	5	5	1 thru 16	87-1643	87-1616	87-1617	Visual/IEB 82-02
								89-1010	
								89-1011	
		Two	5	5	1 thru 16	93-1190		93-1161	
		Three	6	6	1 thru 16		96-1023	96-1024	
								96-1022	PSE-Visual
								96-1315	

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
								96-1608	
					1 thru 16	98-1034		98-1024	
B 6.190	RCP Flange	One	1	1	RCP 1A			89-1033	
	16,17,18,19	Three	1	1	RCP 1A			96-1316	
			1	1	RCP 1B			96-1317	
			1	1	RCP 2A			96-1318	
			1	1	RCP 2B			96-1025	
			1	1	RCP 1A			98-1032	
			1	1	RCP 1B			98-1032	
			1	1	RCP 2A			98-1032	
			1	1	RCP 2B			98-1032	
B 6.200	16 RCP 1A Nuts & Rings	One	5	5	1 thru 16			87-1539	
		Two	5	5	1 thru 16			93-1158	
		Three	6	6	1 thru 16			96-1312	
					1 thru 16			98-1054	
	17 RCP 1B Nuts & Rings	One	5	5	1 thru 16			87-1540	
		Two	5	5	1 thru 16			93-1160	
		Three	6	6	1 thru 16			96-1313	
					1 thru 16			98-1054	
	18 RCP 2A Nuts & Rings	One	5	5	1 thru 16			87-1541	
		Two	5	5	1 thru 16			93-1159	
		Three	6	6	1 thru 16			96-1314	Nuts only
								96-1320	Ring only
					1 thru 16			98-1054	
	19 RCP 2B Nuts & Rings	One	5	5	1 thru 16			87-1542	
		Two	5	5	1 thru 16			93-1161	
		Three	6	6	1 thru 16			96-1315	
					1 thru 16			98-1054	
B 7.20	05 PZR Manway Studs & Nuts	One	20	20	20 pairs		90-1029	90-1030	
								90-1031	
		Two	20	20	20 pairs		92-1489	92-1490	Reject (1 nut)
								92-1528	PSE (1 nut)
		Three	20	20	20 pairs			95-1509	
								96-1027	
								96-1357	
					20 studs		98-1030	98-1026	MT incl. nuts
B 7.30	03 SG 1 Manway Studs & Nuts	One	40	40	40 pairs		87-1594	87-1592	
								87-1611	
								87-1615	
								89-1009	
								89-1022	
		Two	40	40	40 pairs		92-1476	92-1478	Reject (2 studs)
							92-1488	92-1487	PSE (2 studs)
								93-1162	
		Three	40	40	40 pairs			95-1268	
								96-1319	
					40 studs		98-1028	98-1026	MT incl. nuts
					1 stud			98-1071	PSE (1 stud)
	04 SG 2 Manway Studs & Nuts	One	40	40	40 pairs		87-1595	87-1593	
								89-1009	
								89-1022	

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	40	40	40 pairs		92-1477	92-1479	
								93-1163	
		Three	40	40	39 pairs			95-1269	
					1 pair			95-1296	PSE
								96-1319	
					40 studs		98-1029	98-1026	MT incl. nuts
B 7.50	31 PZR PSV Studs & Nuts	One	1	1	PSV200		87-1590	87-1589	
								87-1637	
								87-1638	
								87-1639	
								88-1008	
								91-1001	
					PSV201		87-1590	87-1589	
								88-1008	
								91-1001	
								91-1040	
					PSV202		87-1590	87-1589	
								88-1008	
								90-1034	
								91-1001	
					PSV203		87-1590	87-1589	
							87-1591	88-1008	
								90-1034	
								91-1040	
		Two	1	1	PSV200		92-1470	92-1384	
							92-1482	92-1527	PSE (1 stud)
								93-1164	
					PSV201		92-1471	92-1385	
								93-1164	
					PSV202		92-1472	92-1386	Reject (1 nut)
							92-1482		
								92-1527	PSE (2 nuts)
								93-1164	
					PSV203		92-1473	92-1387	Reject (1 nut)
							92-1482		
								92-1527	PSE (2 nuts)
								93-1164	
								93-1165	PSE (1 stud & 2 Nuts)
		Three	2	2	PSV 200			95-1431	Reject
								95-1432	PSE
								95-1435	PSE
								96-1531	
							98-1031	98-1025	
					PSV 201			95-1431	Reject
								95-1432	PSE
								96-1531	
							98-1031	98-1025	
					PSV 202			95-1431	Reject
								95-1432	PSE
								96-1531	
							98-1031	98-1025	

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
					PSV 203			95-1431	Reject
								95-1432	PSE
								96-1531	
							98-1031	98-1025	
	37 Charging Line Flange	One	1	1	V435			87-1576	
B 7.60	16 RCP 1A Seal Cover	One	5	5	1 thru 16			87-1539	
	Bolting	Two	5	5	1 thru 16	93-1185		93-1158	
		Three	6	6	1 thru 16			95-1539	
	17 RCP 1B Seal Cover	One	5	5	1 thru 16			87-1540	
	Bolting	Two	5	5	1 thru 16	93-1184		93-1160	
		Three	6	6	1 thru 16			95-1539	
	18 RCP 2A Seal Cover	One	5	5	1 thru 16			87-1541	
	Bolting	Two	5	5	1 thru 16	93-1183		93-1159	
		Three	6	6	1 thru 16			95-1539	
	19 RCP 2B Seal Cover	One	5	5	1 thru 16			87-1542	
	Bolting	Two	5	5	1 thru 16	93-1182		93-1161	
		Three	6	6	1 thru 16			95-1539	
					1 thru 16			96-1022	PSE
								96-1029	PSE
B 7.70	21 Shutdown Cooling Loop 1	One	1	1	UV653			87-1601	
		Three	1	1	UV651			96-1060	
	22 Shutdown Cooling Loop 2	One	1	1	UV654			89-1074	
		Two	1	1	UV652			93-1152	
		Three	0	0	UV652			96-1061	
	23 Safety Injection 1A	One	1	1	V237			89-1106	
		Two	2	2	V235			93-1155	
					UV634			93-1156	
		Three	1	1	V542			96-1062	
	24 Safety Injection 1B	One	1	1	V543			87-1467	
		Two	2	2	V245			93-1151	
					UV644			93-1150	
		Three	1	1	V247			96-1600	
	25 Safety Injection 2A	One	1	1	V540			87-1469	
		Two	1	1	V217			93-1034	
		Three	2	2	UV614			96-1063	
					V215			96-1063	
	26 Safety Injection 2B	One	1	1	V225			87-1472	
		Two	2	2	V541			93-1154	
					UV624			93-1153	
		Three	1	1	V227			96-1603	
	27 PZR Spray 1A	Two	1	1	PV100E			93-1383	
		Three	2	2	V240			96-1358	
					V243			96-1360	
	28 PZR Spray 1B	One	2	2	V241			87-1575	
					V242			87-1575	
		Two	1	1	PV100F			93-1384	
	29 Combined PZR Spray	Three	1	1	V244			96-1510	
	31 PZR Safeties	One	1	1	PSV200			87-1638	
								87-1639	
		Two	1	1	PSV200			92-1557	
					PSV201			92-1557	

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
					PSV202			92-1557	
					PSV203			92-1557	
		Three	2	2	PSV202			98-1087	
					PSV203			98-1087	
	32 Drain 1A	One	2	2	V234			87-1543	
					V334			87-1543	
	33 Drain 1B	Two	2	2	V235			92-1315	
					V335			92-1315	
	34 Drain 2A	Two	2	2	V233			92-1318	
					V333			92-1318	
	35 Drain Line 2B	Three	2	2	V232			95-1034	
					V332			95-1034	
	36 Letdown Line	Three	2	2	UV515			95-1114	
					UV516			95-1114	
	37 Charging Line	One	1	1	PDV240			87-1602	
	38 Drain Line Loop 1	One	1	1	V215			89-1153	
		Three	1	1	V216			95-1115	
	39 HPSI Loop 1	One	1	1	V523			89-1075	
		Two	2	2	V522			92-1322	
					V957			92-1322	
	40 HPSI Loop 2	Two	1	1	V532			92-1447	
		Three	2	2	V533			95-1129	
					V958			95-1420	
B 7.80	02 Closure Head	One	1	1	CEDM 92			87-1612	
					CEDM 96			87-1610	
		Three	1	1	CEDM 92			96-1541	
					CEDM 96			96-1541	
B 8.20	05 Pressurizer	One	33%	33%	5-1	89-1196	89-1187		
						89-1197			
						89-1198			
		Two	33%	33%	5-1	93-1132	93-1090		
						93-1133			
						93-1134			
		Three	34%	34%	5-1	95-1126	95-1156		Re-exam
						95-1597			
						95-1127			
B 8.30	03 SG1	One	33%	33%	3-1	89-1166	89-1102		
						89-1167			
						89-1168			
		Three	34%	34%	3-1	95-1002	95-1098		
						95-1003			
						95-1004			
	04 SG1	Two	33%	33%	4-1	93-1011			
						93-1013			
						93-1016			
B 9.11 & B 9.12	06 RCS Piping	One	7	7	17-2	90-1017	89-1169		
						90-1018			
						90-1019			
					1-31	89-W*	92-1448		*Separate Report
					1-34	89-W*	92-1448		by Westinghouse
					3-30	89-1195	89-1072		

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
					4-30	89-1152	89-1071		
					6-7	89-W*	92-1448		
					7-7	89-W*	92-1448		
		Two	6	6	16-1	93-1063	93-1050		
						93-1064			
						93-1065			
					9-1	93-1066	93-1050		
						93-1067			
						93-1068			
					17-1	93-1078	93-1050		
						93-1079			
						93-1080			
					11-1	93-1081	93-1050		
						93-1082			
						93-1083			
					18-1	93-1072	93-1270		
						93-1073			
						93-1074			
					13-1	93-1075	93-1093		
						93-1076			
						93-1077			
					19-1	93-1084	93-1270		
						93-1085			
						93-1086			
					15-1	93-1087	93-1093		
						93-1088			
						93-1089			
					3-28	93-1057	93-1042		
						93-1058			
						93-1059			
					6-1	93-1060	93-1042		
						93-1061			
						93-1062			
					4-28	93-1051	93-1042		
						93-1052			
						93-1053			
					7-1	93-1054	93-1042		
						93-1055			
						93-1056			
		Three	13	13	3-29	96-1091	96-1085		
						96-1093			
						96-1095			
					4-29	96-1092	96-1085		
						96-1094			
						96-1096			
					16-2	96-1544	96-1533		
						96-1545			
						96-1546			
					18-2	96-1257	96-1217		
						96-1259			
						96-1261			

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
					19-2	96-1258	96-1217		
						96-1260			
						96-1262			
					1-27	*			* Separate report by
					1-28	*			WesDyne
					1-29	*			
					1-30	*			
					1-31	*			
					1-32	98-1114	98-1112		
						98-1128			
						98-1130			
						*			
					1-33	98-1122	98-1112		
						98-1136			
						98-1116			
						*			
					1-34	*			
					1-35	98-1124	98-1112		
						98-1118			
						98-1134			
						*			
					1-36	98-1120	98-1112		
						98-1126			
						98-1132			
						*			
					6-7	*			
					7-7	*			
					9-7	98-1131	98-1112		
						98-1125			
						98-1119			
						*			
					11-7	98-1113	98-1112		
						98-1127			
						98-1129			
						*			
					13-7	98-1115	98-1112		
						98-1121			
						98-1135			
						*			
					15-7	98-1117	98-1112		
						98-1123			
						98-1133			
						*			
	20 Pressurizer Surge	One	1	1	20-1	89-1232	89-1073		
		Three	2	2	20-10	96-1304	96-1244		
					20-11	96-1305	96-1244		
	21 Shutdown Cooling 1	One	2	2	21-18	89-1184	89-1170		
					21-20	89-1185	89-1070		
		Two	2	2	21-14	92-1337	92-1312		
					21-15	92-1338	92-1312		
		Three	2	2	21-3	95-1006	95-1005		

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
					21-4	95-1007	95-1005		
	22 Shutdown Cooling 2	One	2	2	22-11	89-1144	89-1061		
					22-23	89-1145	89-1061		
		Two	2	2	22-18	92-1390	92-1388		
					22-1	93-1094	93-1106		
		Three	3	3	22-4	95-1017	95-1015		
					22-5	95-1018	95-1016		
					22-6	95-1019	95-1016		
	23 Safety Injection 1A	One	3	3	23-1	89-1206	89-1107		
					23-2	89-1207	89-1171		
					23-4	89-1208	89-1107		
		Three	2	2	23-24	95-1151	95-1121		
					23-26	95-1150	95-1099		
					23-6	98-1046	98-1027		IN 97-19
	24 Safety Injection 1B	Two	3	3	24-14	92-1290	92-1235		
					24-16	92-1291	92-1235		
					24-19	92-1292	92-1235		
		Three	2	2	24-1	95-1028	95-1024		
					24-2	95-1029	95-1024		
					24-6	98-1038	98-1040		IN 97-19
	25 Safety Injection 2A	One	2	2	25-26	87-1509	87-1468		
					25-27	87-1510	87-1468		
		Two	3	3	25-1	93-1046	93-1008		
					25-4	93-1044	93-1008		
					25-6	93-1043	93-1008		
						98-1044	98-1042		
		Three	1	1	25-10	98-1039	98-1041		IN 97-19
	26 Safety Injection 2B	One	2	2	26-8		86-194		PSE
					26-9	87-1581	87-1485		
					26-11	87-1558	87-1485		
		Two	1	1	26-12	92-1293	92-1234		
		Three	2	2	26-1	95-1030	95-1025		
					26-2	95-1031	95-1025		
					26-6	98-1045	98-1043		IN 97-19
	29 Combined PZR Spray	One	2	2	29-10	87-1582	87-1531		
					29-11	87-1583	87-1531		
		Two	1	1	29-1	93-1203	93-1105		
		Three	2	2	29-2	96-1089	96-1052		
					29-7	96-1090	96-1052		
	31 PZR Safeties	One	1	1	31-1	87-1585	87-1525		
		Two	2	2	31-9	93-1198	93-1104		
					31-10	93-1199	93-1104		
		Three	2	2	31-5	96-1037	96-1036		
					31-13	96-1038	96-1036		
	36 Letdown Line	Two	1	1	36-75	93-1267	93-1223		
B 9.21	27 Pressurizer Spray 1A	One	3	3	27-42		89-1108		
& B 9.22					27-43		89-1108		
					27-44		89-1108		
		Two	3	3	27-8		93-1381		
					27-10		93-1381		
					27-16		93-1381		

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
		Three	4	4	27-18		96-1511		
					27-20		96-1511		
					27-38		96-1513		
					27-39		96-1513		
	28 Pressurizer Spray 1B	One	4	4	28-31		87-1552		
					28-32		87-1552		
					28-39		87-1574		
					28-40		87-1574		
		Two	3	3	28-9		93-1382		
					28-11		93-1382		
					28-20		93-1382		
		Three	3	3	28-41		96-1532		
					28-42		96-1532		
					28-45		96-1532		
	30 Aux PZR Spray	One	2	2	30-1	89-1051	89-1050		Vol/IEB 88-08
						89-1052			
					30-2	89-1051	89-1050		Vol/IEB 88-08
					30-2	89-1052			
					30-7		87-1535		
					30-13		87-1535		
		Two	2	2	30-5		92-1349		
					30-6		92-1349		
					30-7		92-1352		
					30-13		92-1352		
		Three	0	0	30-1	98-1052	98-1033		IN 97-19
					30-2	98-1053	98-1033		IN 97-19
	32 Drain Line 1A	One	2	2	32-1		87-1546		
					32-2		87-1546		
	33 Drain Line 1B	Two	2	2	33-1		92-1316		
					33-5		92-1316		
	34 Drain Line 2A	Three	2	2	34-1		95-1032		
					34-2		95-1032		
	35 Drain Line 2B	Three	2	2	35-4		95-1033		
					35-5		95-1033		
	36 Letdown	One	4	4	36-8		87-1580		
					36-9		87-1580		
					36-28		87-1609		
					36-35		87-1609		
		Two	6	6	36-25		93-1223		
					36-26		93-1223		
					36-43		93-1223		
					36-44		93-1223		
					36-45		93-1223		
					36-80		93-1242		
		Three	8	8	36-1		96-1308		
					36-2		96-1308		
					36-3		96-1308		
					36-6		96-1308		
					36-7		96-1308		
					36-63		96-1308		
					36-64		96-1308		

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
					36-67		96-1308		
	37 Charging	One	5	5	37-41		87-1536		
					37-42		87-1536		
					37-45		87-1536		
					37-46		87-1536		
					37-47		87-1536		
		Two	6	6	37-28		93-1101		
					37-29		93-1101		
					37-30		93-1147		Reject
							93-1149		Re-exam
					37-32		93-1148		Reject
							93-1149		Re-exam
					37-33		93-1101		
					37-34		93-1101		
		Three	6	6	37-30		95-1445		Re-exam
					37-32		95-1445		Re-exam
					37-8		96-1326		
					37-9		96-1326		
					37-18B		96-1326		
					37-19		96-1326		
					37-53		96-1326		
					37-54		96-1326		
	38 Drain Line Loop 1	Two	1	1	38-1		93-1049		
	39 HPSI Loop 1	One	2	2	39-1		87-1488		
					39-5		87-1488		
		Two	3	3	39-12		92-1321		
					39-13		92-1321		
					39-24		92-1321		
		Three	4	4	39-25		95-1037		
					39-28		95-1037		
					39-29		95-1037		
					39-33A		95-1037		
	40 HPSI Loop 2	One	3	3	40-1		89-1062		
					40-2		89-1062		
					40-3		89-1062		
		Two	2	2	40-6		92-1327		
					40-7		92-1327		
		Three	2	2	40-21		95-1128		
					40-23		95-1128		
B 9.31	06 RCS Piping	One	1	1	9-8	89-1231	89-1209		
		Two	1	1	13-8	93-1069	93-1093		
						93-1070			
						93-1071			
		Three	3	3	11-8	96-1230	96-1609		
						96-1232			
						96-1234			
					15-8	96-1229	96-1609		
						96-1231			
						96-1233			
					6-8	98-1090	98-1110		
						98-1091			

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
						98-1092			
B 9.32	06 RCS Piping	One	1	1	8-17		87-1559		
		Two	1	1	13-9		93-1093		
		Three	1	1	14-17		96-1533		
	22 SD Cooling Loop 2	One	1	1	22-7A		89-1061		
	36 Letdown Line	Two	2	2	36-41		93-1223		
					36-76		93-1223		
B 9.40	32 Drain Line 1A	One	1	1	32-6		87-1546		
	33 Drain Line 1B	Two	1	1	33-6		92-1330		
					33-8		92-1316		
					33-9		92-1316		
	34 Drain Line 2A	Two	1	1	34-6		92-1317		
					34-8		92-1317		
					34-9		92-1317		
	35 Drain Line 2B	Three	1	1	35-6		95-1033		
	38 Drain Line Loop 1	One	1	1	38-5		89-1154		
B 10.10	22 SD Cooling Loop 2	Two	1	1	SI-193-H23		92-1389		
	24 Safety Injection 1B	Three	0	0	SI-223-H6				DCN/Snub Removed
	25 Safety Injection 2A	Three	1	1	SI-160-H5		95-1182		
	26 Safety Injection 2B	One	1	1	SI-179-H10		87-1485		
	36 Letdown	One	1	1	RC-91-H5		87-1609		
		Two	1	1	RC-91-H6		93-1242		
B12.10	19 RCP 2B	Three	1	1	19-3	96-1235			
						96-1237			
						96-1239			
						96-1331			
						96-1333			
					19-4	96-1236			
						96-1238			
						96-1240			
						96-1241			
						96-1242			
						96-1243			
						96-1332			
						96-1334			
						96-1335			
B 12.20	16 RCP Casing	One			RCP 1A			89-1033	Partial Exam
		Three			RCP 2B			96-1026	Partial Exam
			1	1	RCP 1A			98-1028A	
B 12.40	31 Forged PSV	Three	1	1	PSV200	96-1604			
	22 Forged Gate		1	1	UV654	98-1109			
	29 Forged Check		1	1	V244	98-1077			
B12.50	31 Forged PSV	Three	1	1	V203			98-1017	
	22 Forged Gate		1	1	UV654			98-1050	
	23 Forged Check		1	1	V235			98-1149	
B 13.10	01 Reactor Vessel	One	33%	33%	Acc Areas			87-1596	
								87-1597	
		Two	33%	33%	Acc Areas			92-1542	
		Three	34%	34%	Acc Areas			95-1574	

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
								95-1575	
								98-1105	
								*	
B 13.31	01 Reactor Vessel	Three	100%	100%	Acc Areas			*	
					1-34	*			
					1-35	98-1124	98-1112		
						98-1118			
						98-1134			
						*			
					1-36	98-1120	98-1112		
						98-1126			
						98-1132			
						*			
B 13.32	01 Reactor Vessel	Three	100%	100%	Acc Areas	*			* Separate report by WesDyne
B 14.10	02 Closure Head-CEDM Upper Housing	One	2	2	9-84	89-1053			
					9-88	89-1055			
		Two	2	2	9-83	93-1308			
					9-91	93-1307			
		Three	3	3	9-89	95-1436			
					9-90	95-1437			
					9-97	95-1438			
	CEDM Lower Housing (Tube)	One	2	2	10-84	89-1054			
					10-88	89-1056			
		Two	2	2	10-83	93-1310			
					10-91	93-1309			
		Three	3	3	10-89	95-1439			
					10-90	95-1440			
					10-97	95-1441			
B 15.10 & B 15.11	01,02 Reactor Vessel	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1008	
								98-1142	N-498
B 15.20 & B 15.21	05 PZR	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	

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
								95-1578	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1008	
								98-1142	N-498
B 15.30 & B 15.31	03 SG1	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1578	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
	04 SG2	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1578	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
B 15.50 & B 15.51	All RCS Piping	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	

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
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1018	N-498
								98-1082	N-498
								98-1142	N-498
								99-1010	N-498
								99-1011	N-498
								99-1013	N-498
								99-1151	N-498
								99-1313	N-498
								99-1434	N-498
B 15.60 & B 15.61	16 RCP 1A	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
	17 RCP 1B	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
	18 RCP 2A	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	

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
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
	19 RCP 2B	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
B 15.70 & B 15.71	All RCS Valves	One	All	All	Press Bound			88-1007	
								90-1032	
		Two	All	All	Press Bound			92-1558	
								93-1001	
								93-1437	
		Three	All	All	Press Bound			94-1001	
								95-1579	
								96-1020	
								96-1028	
								96-1030	
								96-1050	
								96-1602	
								98-1001	N-498
								98-1011	
								98-1142	N-498
								99-1151	N-498
								99-1013	N-498
								99-1011	N-498
								99-1010	N-498
								99-1313	N-498
								99-1434	N-498
BFLYWH	16 RCP 1A Flywheel	One	1	1	N/A	89-1030	89-1029		
						89-1032			
						89-1001			
						89-1002			
		Two	1	1	N/A	93-1168			

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
						93-1169			
		Three	1	1	N/A	98-1100	98-1095		
	17 RCP 1B Flywheel	One	1	1	N/A	89-1023	89-1028		
						89-1024			
						89-1005			
						89-1006			
		Two	1	1	N/A	93-1166			
						93-1167			
		Three	1	1	N/A	98-1099	98-1096		
	18 RCP 2A Flywheel	One	1	1	N/A	89-1031	89-1029		
						89-1032			
						89-1007			
						89-1008			
		Two	1	1	N/A	93-1172			
						93-1173			
		Three	1	1	N/A	96-1031			
							98-1097		
	19 RCP 2B Flywheel	One	1	1	N/A	89-1025	89-1027		
						89-1026			
						89-1003			
						89-1004			
		Two	1	1	N/A	93-1170			
						93-1171			
		Three	1	1	N/A	96-1031			
							98-1098		
BIWF	01 Reactor Vessel Support	Three	4	4	40 at 1A			98-1111	
					41 at 1B			98-1111	
					42 at 2A			98-1111	
					43 at 2B			98-1111	
	03 SG1	One	1	1	3-40			87-1549	
	04 SG2	Two	1	1	4-40			93-1260	
	05 PZR	Three	1	1	5-40			96-1359	
	16 RCP 1A	One	2	2	16-20			87-1458	
					16-21			87-1458	
		Two	4	4	16-12			92-1298	
					16-13			92-1299	
					16-14			92-1300	
					16-15			92-1301	
		Three	4	4	16-16			95-1540	
					16-17			95-1540	
					16-18			95-1540	
					16-19			95-1540	
	17 RCP 1B	One	2	2	17-20			87-1459	
					17-21			87-1459	
		Two	4	4	17-12			92-1302	
					17-13			92-1303	
					17-14			92-1304	
					17-15			92-1305	
		Three	4	4	17-16			95-1541	
					17-17			95-1541	
					17-18			95-1541	

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
					17-19			95-1541	
	18 RCP 2A	One	4	4	18-12			87-1460	
					18-13			87-1460	
					18-14			87-1460	
					18-15			87-1460	
		Two	2	2	18-20			92-1306	
					18-21			92-1307	
		Three	4	4	18-16			95-1542	
					18-17			95-1542	
					18-18			95-1542	
					18-19			95-1542	
	19 RCP 2B	One	4	4	19-12			87-1461	
					19-13			87-1461	
					19-14			87-1461	
					19-15			87-1461	
		Two	2	2	19-20			92-1308	
					19-21			92-1309	
		Three	4	4	19-16			95-1543	
					19-17			95-1543	
					19-18			95-1543	
					19-19			95-1543	
	20 PZR Surge	One	2	2	RC-28-H1			87-1445	
					RC-28-H2			87-1435	
		Two	2	2	RC-28-H842			92-1310	
					RC-28-H844			92-1311	Reject
								92-1546	Re-exam
		Three	3	3	RC-28-H3			95-1106	
					RC-28-H4			95-1107	Reject
								95-1536	Re-exam
					RC-28-H4			96-1480	Re-exam
					RC-28-H843			95-1108	
	21 Shutdown Cooling 1	One	7	7	SI-240-H10			87-1462	
					SI-240-H11			87-1463	
					SI-240-H13			87-1464	
					RC-51-H821			89-1157	
					RC-51-H1			89-1155	
					RC-51-H2			89-1156	Reject
								90-1033	Re-exam
					RC-51-H3			89-1172	
		Two	7	7	SI-240-H9			91-1004	
					RC-51-H822			92-1264	
					RC-51-H4			92-1262	
					RC-51-H5			92-1263	
					SI-240-H823			92-1267	
					SI-240-H824			92-1268	
					SI-240-H12			92-1266	
					SI-240-H2			92-1265	
					SI-240-H6			92-1529	PSE/Snub. Replace
		Three	8	8	SI-240-H1			95-1008	
					SI-240-H3			95-1009	
					SI-240-H4			95-1010	

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-240-H5			95-1011	
					SI-240-H6			95-1012	
					SI-240-H7			95-1013	
					SI-240-H8			95-1014	
					SI-240-H9			95-1109	
					SI-240-H9			96-1575	PSE/Snub. Replace
					RC-51-H3			96-1576	PSE/Snub. Replace
	22 Shutdown Cooling 2	One	4	4	SI-193-H17			89-1077	
					SI-193-H19			89-1109	Reject
								89-1241	Re-exam
					RC-68-H5			92-1236	
					RC-68-H6			92-1237	
		Two	5	5	SI-193-H20			92-1240	
					SI-193-H23			92-1374	
					SI-193-H25			92-1241	
					SI-193-H8			92-1238	Reject
								92-1362	Re-exam
					SI-193-H9			92-1239	
		Three	4	4	RC-68-H1			95-1020	
					RC-68-H2			95-1021	
					RC-68-H3			95-1022	
					RC-68-H4			95-1023	
	23 Safety Injection 1A	One	1	1	SI-207-H5			89-1110	
		Two	2	2	SI-207-H3			92-1547	PSE
					SI-207-H7			93-1178	
					SI-207-H11			93-1157	
		Three	3	3	SI-207-H1			95-1424	
					SI-207-H2			95-1425	
					SI-207-H3			95-1426	PSE/Snub Reduction
	24 Safety Injection 1B	One	2	2	SI-223-H3			87-1437	
					SI-223-H4			87-1436	
					SI-223-H7			86-209	PSE
					SI-223-H8			86-210	PSE
		Two	2	2	SI-223-H1			92-1242	
								92-1541	PSE/Snub. Reduction
					SI-223-H2			92-1243	
		Three	4	4	SI-223-H5			95-1427	
					SI-223-H6			95-1428	
					SI-223-H7			95-1429	
					SI-223-H8			95-1430	
	25 Safety Injection 2A	One	2	2	SI-156-H7			87-1623	
					SI-156-H9			87-1508	
		Two	3	3	SI-160-H1			93-1045	
					SI-160-H2			93-1145	DCN/Snub Removed
					SI-160-H3			93-1146	DCN/Snub Removed
		Three	2	2	SI-160-H5			95-1183	DCN/Snub Removed
					SI-160-H4			98-1024A	
	26 Safety Injection 2B	One	3	3	SI-179-H7			86-207	PSE
					SI-179-H8			86-208	PSE
					SI-179-H9			87-1473	

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-179-H10			87-1486	
					SI-179-H11			87-1487	
		Two	3	3	SI-175-H21			92-1271	
								92-1531	PSE/Snub. Reduction
					SI-175-H22			92-1272	
					SI-175-H23			92-1273	
		Three	2	2	SI-179-H7			95-1110	
					SI-179-H8			95-1111	
	27 PZR Spray 1A	One	9	9	RC-62-H26			89-1181	
					RC-62-H27			87-1550	
					RC-62-H28			87-1551	
					RC-62-H29			87-1560	
					RC-62-H30			87-1561	
					RC-62-H31			87-1562	
					RC-62-H32			87-1563	
					RC-62-H33			87-1564	
					RC-62-H34			87-1565	
								87-1624	
		Two	9	9	RC-62-H31			92-1523	PSE/Snub. Replace
					RC-16-H15			93-1398	
					RC-16-H5			93-1397	
					RC-16-H6			93-1370	
					RC-16-H7			93-1371	
					RC-16-H8			93-1372	
					RC-62-H31			93-1363	PSE
					RC-62-H35			93-1373	
					RC-62-H34			93-1399	PSE
					RC-62-H36			93-1374	
					RC-62-H22			93-1400	PSE
					RC-62-H37			93-1375	Reject
								93-1422	Re-exam
					RC-62-H38			93-1376	PSE
		Three	8	8	RC-62-H31			95-1443	PSE
					RC-62-H34			95-1444	PSE
					RC-62-H37			95-1175	Re-exam
					RC-62-H20			96-1506	
					RC-62-H21			96-1509	
					RC-62-H22			96-1508	
					RC-62-H23			96-1503	
					RC-62-H24			96-1492	
					RC-62-H25			96-1505	
					RC-62-H38			96-1569	PSE/Snub. Replace
					RC-62-H39			96-1504	
					RC-62-H40			96-1507	
					RC-62-H36			98-1027A	
	28 PZR Spray 1B	One	9	9	RC-17-H24			87-1566	
					RC-17-H34			87-1567	
					RC-17-H36			87-1568	
					RC-17-H38			87-1569	
					RC-17-H39			87-1570	
								89-1046	PSE/Replacement

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
					RC-17-H40			87-1571	
					RC-17-H41			87-1572	
					RC-17-H42			87-1573	
					RC-18-H11			87-1625	PSE
					RC-17-H35			92-1351	
		Two	8	8	RC-17-H41			92-1522	PSE/Snub. Replace
								93-1401	PSE
					RC-17-H43			93-1377	
					RC-17-H44			93-1378	
					RC-17-H45			93-1379	
					RC-17-H46			93-1380	
					RC-18-H9			93-1402	
					RC-18-H10			93-1403	
					RC-18-H11			93-1404	
					RC-18-H12			93-1405	
		Three	11	11	RC-17-H25			96-1498	
					RC-17-H26			96-1496	
					RC-17-H27			96-1502	
					RC-17-H28			96-1501	
					RC-17-H29			96-1517	
					RC-17-H30			96-1499	
					RC-17-H31			96-1497	
					RC-17-H32			96-1494	
					RC-17-H33			96-1495	
					RC-17-H47			96-1500	
					RC-17-H48			96-1493	
	29 PZR Combined Spray	One	2	2	RC-18-H16			87-1529	
					RC-18-H18			87-1530	
								89-1039	PSE/Replacement
		Two	1	1	RC-18-H17			93-1144	
	30 Aux. PZR Spray	Two	0	0	CH-521-HA			93-1366	PSE
		Three	2	2	CH-521-HA			95-1112	
					CH-521-HB			95-1113	
					CH-521-HA			96-1570	PSE/Snub. Replace
	32 Drain Line 1A	One	2	2	RC-60-HA			87-1544	
					RC-60-HB			87-1545	
		Three	0	0	RC-60-HA			95-1573	PSE
	33 Drain Line 1B	Two	2	2	RC-58-HA			92-1314	
					RC-58-HB			92-1313	
	34 Drain Line 2A	One	0	0	RC-96-HB			89-1040	PSE/Replacement
		Two	2	2	RC-96-HA			92-1319	
					RC-96-HB			92-1320	
	35 Drain Line 2B	Three	2	2	RC-89-HE			95-1035	
					RC-89-HF			95-1036	
	36 Letdown	One	9	9	RC-91-H1			87-1607	
					RC-91-H5			87-1608	
					RC-91-HAA			87-1446	
					RC-91-HAK			89-1078	Reject
								90-1025	Re-exam
					RC-91-HB			87-1447	
					RC-91-HD			87-1448	

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
					RC-91-HE			87-1449	
					RC-91-HY			87-1450	
					RC-91-HZ			87-1451	
		Two	10	10	RC-91-H2			93-1249	
					RC-91-H6			93-1248	
					RC-91-HAJ			93-1247	
					RC-91-HAP			93-1251	
					RC-91-HAQ			93-1250	
					RC-91-HP			93-1246	
					RC-91-HQ			93-1396	
					RC-91-HR			93-1253	
					RC-91-HS			93-1252	
					RC-91-HT			93-1254	
		Three	11	11	CH-1-HA			96-1288	
					RC-91-HAB			96-1281	
					RC-91-HAC			96-1280	
					RC-91-HAD			96-1272	
					RC-91-HAM			96-1282	
					RC-91-HAN			96-1284	
					RC-91-HF			96-1283	
					RC-91-HJ			96-1279	
					RC-91-HU			96-1287	
					RC-91-HV			96-1286	
					RC-91-HW			96-1285	
	37 Charging Line	One	14	14	CH-5-H2			87-1553	
								89-1047	PSE/Replacement
					CH-5-H3			87-1554	
					CH-5-H6			89-1048	PSE/Replacement
					CH-5-H10			89-1049	PSE/Replacement
					CH-5-H24			89-1058	PSE/Replacement
					CH-5-H25			87-1578	
					CH-5-H26			87-1465	
					CH-5-H27			87-1466	
					CH-5-H28			87-1474	
					CH-5-H30			87-1475	
					CH-5-H34			87-1476	
					CH-5-H35			87-1477	
					CH-5-H36			87-1478	
					CH-5-H42			87-1579	
					CH-5-H43			87-1555	
					CH-5-H44			87-1556	
					CH-5-HAA			87-1577	
		Two	14	14	CH-5-H6			92-1520	PSE/Snub. Replace
					CH-5-H10			92-1521	PSE/Snub. Replace
					CH-5-H17			92-1545	PSE/Snub. Reduction
					CH-5-H22			92-1548	PSE/Snub. Reduction
					CH-5-H32			92-1549	PSE/Reject
								92-1552	PSE/Re-exam
					CH-5-H13			93-1262	
					CH-5-H16			93-1256	
					CH-5-H18			93-1264	

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
					CH-5-H19			93-1263	
					CH-5-H20			93-1265	
					CH-5-H21			93-1266	
					CH-5-H23			93-1259	
					CH-5-H24			93-1258	
					CH-5-H37			93-1261	
					CH-5-H45			93-1255	
					CH-5-H46			93-1257	
		Three	15	15	CH-5-H4			96-1295	
					CH-5-H6			96-1293	
					CH-5-H7			96-1292	
					CH-5-H8			96-1291	
					CH-5-H9			96-1290	
					CH-5-H10			96-1298	
					CH-5-H11			96-1193	
					CH-5-H12			96-1189	
					CH-5-H14			96-1190	
					CH-5-H15			96-1192	
					CH-5-H33			96-1296	
					CH-5-H38			96-1191	
					CH-5-H39			96-1289	
					CH-5-H40			96-1294	
					CH-5-H41			96-1297	
	38 Drain Loop 1	One	0	0	RC-70-HA			89-1059	PSE/Replacement
		Three	2	2	RC-70-HA			96-1188	
					RC-70-HB			96-1187	
	39 HPSI Loop 1	One	4	4	SI-248-H19			87-1636	PSE
					SI-248-H26			87-1489	
					SI-248-H27			87-1490	
					SI-248-H28			87-1491	
					SI-248-H30			87-1492	
		Two	5	5	SI-248-H17			92-1244	
					SI-248-H18			92-1270	Reject
								92-1519	Reject
								92-1530	Re-exam
					SI-248-H19			92-1245	
					SI-248-H20			92-1383	
					SI-248-H29			92-1246	
		Three	5	5	SI-248-H21			95-1116	
					SI-248-H22			95-1117	
					SI-248-H23			95-1118	
					SI-248-H24			95-1119	
					SI-248-H25			95-1120	
					SI-248-H19			96-1580	PSE/Snub. Replace
	40 HPSI Loop 2	One	3	3	SI-199-H13			89-1079	
					SI-199-H14			89-1080	
					SI-199-H21			89-1081	
		Two	4	4	SI-199-H15			92-1274	
					SI-199-H16			92-1275	
					SI-199-H17			92-1276	
					SI-199-H18			92-1277	

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
		Three	2	2	SI-199-H22			95-1131	
					SI-199-H23			95-1130	
C 1.10	41 SG 1	One	1	1	41-3 (50%)	90-1008			
						90-1009			
						90-1010			
					41-4 (50%)	90-1011			
						90-1012			
						90-1013			
	42 SG 2	Three	1	1	42-3 (50%)	96-1536			
						96-1539			
						96-1540			
					42-4 (50%)	96-1537			
						96-1548			
						96-1566			
	68 Regen. HT Exch.	One	1	1	68-7	89-1203			
		Two	1	1	68-5	93-1413			
		Three	1	1	68-3	96-1571			
	69 Letdown HT Exch.	One	1	1	69-1 (50%)	87-1587			
		Three	1	1	69-1 (50%)	96-1551			
	84 SD Cooling A	Two	50%	50%	74-123	92-1218			
						92-1219			
	87 SD Cooling B	Three	50%	50%	75-78	95-1166			
						95-1170			
						95-1173			
C 1.20	41 SG 1	One	50%	50%	41-5	90-1014			
						90-1015			
						90-1016			
	42 SG 2	Three	50%	50%	42-5	96-1542			
						96-1543			
						96-1549			
						96-1550			
	68 Regen. HT Exch.	One	1	1	68-6	89-1204			
		Three	1	1	68-4	96-1572			
C 1.30	41 SG 1	One	50%	50%	41-1	90-1005			
						90-1006			
						90-1007			
	42 SG 2	Two	50%	50%	42-1	93-1012			
						93-1014			
						93-1015			
		Three	1	1	42-11	96-1491			
						96-1519			
						96-1520			
	68 Regen. HT Exch.	Two	2	2	68-1	93-1411			
					68-2	93-1412			
		Three	2	2	68-8	96-1573			
					68-9	96-1574			
	69 Letdown HT Exch.	One	50%	50%	69-2	87-1588			
		Three	50%	50%	69-2	96-1552			
	84 SD Cooling A	Two	50%	50%	74-124	92-1220			
						92-1221			
	87 SD Cooling B	Three	50%	50%	75-79	95-1167			

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
						95-1171			
						95-1174			
C 2.21	41 SG 1	One	1	1	41-34	89-1193	89-1228		
& C 2.22		Two	2	2	41-9	93-1243	93-1239		
						93-1244			
						93-1273			
						93-1268			Nozzle Inner Radius
					41-10	93-1245	93-1239		
						93-1271			
						93-1272			
						93-1269			Nozzle Inner Radius
		Three	0	0	41-9	95-1038			Nozzle Bore
						95-1040			Nozzle Bore
						95-1042			Nozzle Inner Radius
					41-10	95-1039			Nozzle Bore
						95-1041			Nozzle Bore
						95-1043			Nozzle Inner Radius
	42 SG 2	One	1	1	42-35	89-1194	89-1229		
		Three	3	3	42-7	96-1373	96-1270		
						96-1375			
						96-1377			
							98-1051		Nozzle Inner Radius
					42-8	96-1372	96-1270		
						96-1374			
						96-1376			
							98-1051		Nozzle Inner Radius
					42-17	96-1538	96-1535		
						96-1547			
						96-1567			
	84 SD Cooling A	Two	1	1	74-122	92-1214	92-1217		
						92-1215			
						92-1216			Nozzle Inner Radius
	87 SD Cooling B	Three	1	1	75-76	95-1165	95-1193		
						95-1169			
						95-1172			
						95-1168			Nozzle Inner Radius
						95-1194			Nozzle Inner Radius
C 3.10	41 SG 1	One	1	1	41-42		90-1001		
	42 SG 2	Two	1	1	42-43		93-1191		
	68 Regen. HT Exch.	Two	1	1	68-10		93-1415		Reject
							93-1421		Re-exam
		Three	1	1	68-10		95-1181		Re-exam
					68-10		96-1586		Expansion/Reject
							96-1591		Re-exam
							96-1592		Re-exam
							98-1036		Re-exam
					68-11		96-1568		Reject
							96-1593		Re-exam
							96-1594		Re-exam
							96-1595		Re-exam

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
							96-1596		Re-exam
							96-1597		Re-exam
							98-1036		Re-exam
C 3.20	43 MS SG 1 90	One	1	1	SG-36-H17		87-1515		
		Two	1	1	SG-36-H12		93-1116		
		Three	4	4	SG-36-H13		96-1481		
					SG-36-H14		96-1481		
					SG-36-H15		96-1481		
					SG-36-H16		96-1481		
	44 MS SG 1 270	Two	3	3	SG-33-H13		93-1360		Reject (1 bolt)
							93-1362		Reject (2 bolts)
					SG-33-H14		93-1115		
					SG-33-H15		93-1115		
					SG-33-H16		93-1115		
		Three	2	2	SG-33-H12		96-1534		
					SG-33-H13		96-1534		
	45 MS SG 2 270	One	3	3	SG-42-H14		87-1538		
					SG-42-H15		87-1517		
					SG-42-H16		87-1517		
		Two	1	1	SG-42-H12		93-1099		
		Three	1	1	SG-42-H17		96-1348		
	46 MS SG 2 90	Two	2	2	SG-45-H12		93-1100		
					SG-45-H13		93-1365		
							93-1361		
		Three	3	3	SG-45-H14		96-1364		
					SG-45-H15		96-1364		
					SG-45-H16		96-1364		
	54 FW SG 1	Three	1	1	SG-2-H1		96-1515		
	55 FW SG 2	One	1	1	SG-5-H9		89-1076		
		Three	1	1	SG-5-H1		96-1327		
	62 Aux. FW SG 1	Two	1	1	AF-18-H1		93-1091		
	64 Blowdown SG 1	One	3	3	SG-39-H15		89-1064		
					SG-39-H17		89-1064		
					SG-53-H1		89-1130		
		Two	1	1	SG-39-H1		93-1436		
		Three	3	3	SG-39-H28		96-1516		
					SG-39-H22		98-1094		
					SG-53-H5		99-1016		
	65 Blowdown SG 2	One	2	2	SG-48-H20		89-1067		
					SG-52-H1		89-1065		
		Two	3	3	SG-48-H14		93-1285		
					SG-48-H16		93-1285		
					SG-48-H26		93-1285		
		Three	3	3	SG-48-H1		96-1587		
							96-1601		
					SG-48-H17		99-1147		
					SG-52-H5		96-1562		
	71 LSPSI Discharge 1	One	1	1	SI-87-H11		87-1304		
	76 CS Suction 1	One	1	1	SI-9-H4		87-1268		
	77 CS Discharge A	Three	1	1	SI-79-H7		95-1418		
	80 CS Discharge B	Three	1	1	SI-119-H5		95-1049		

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
	82 SD Cooling HX A	Three	1	1	SI-78-H4		95-1326		
	83 SD Cooling 1	Two	2	2	SI-87-H4		92-1143		
					SI-90-H1		92-1144		
		Three	2	2	SI-70-H1		95-1328		
					SI-70-H6		95-1329		
	86 SD Cooling HX B	Three	2	2	SI-72-H1		95-1187		
					SI-72-H12		95-1053		
	88 SD Cooling 2	One	1	1	SI-72-H13		87-1324		
	89 LPSI Suction 2	One	1	1	SI-194-H14		87-1322		
	91 SD Cooling 1	One	4	4	SI-70-H9		87-1335		
					SI-70-H11		87-1336		
					SI-70-H12		87-1335		
					SI-70-H16		87-1337		
	92 LPSI Suction 1	One	1	1	SI-241-H21		87-1334		
		Two	2	2	SI-239-H1		92-1170		
					SI-241-H16		92-1148		
	93 CS Discharge 1	Two	1	1	SI-89-H13		92-1142		
	94 SD Cooling A	Two	2	2	SI-70-H5		92-1361		
					SI-70-H8		92-1222		
	95 LPSI Suction B	Three	1	1	SI-194-H6		95-1079		
	96 LPSI Header 1A	Three	2	2	SI-202-H5		99-1146		
					SI-202-H17		95-1199		
	99 LPSI 2B	Two	1	1	SI-174-H13		92-1379		
	100 CSP-LPSI Suction 1	One	1	1	SI-369-H1		87-1433		
		Two	1	1	84-5		92-1483		
	101 LPSI Train B	Three	1	1	85-5		98-1076		
C 3.30	72 LPSI Pump A	One	2	2	72-3A		87-1362		
					72-3B		87-1362		
		Two	1	1	72-3A		92-1230		
					72-3B		92-1230		
					72-3C		92-1230		
	75 LPSI Pump B	Two	1	1	73-3A		92-1509		
					73-3B		92-1509		
					73-3C		92-1509		
		Three	2	2	73-3B		95-1218		
					73-3C		95-1218		
	78 CS Pump A	One	2	2	80-3A		87-1261		
					80-3B		87-1261		
		Two	1	1	80-3A		92-1224		
					80-3B		92-1225		
					80-3C		92-1226		
	81 CS Pump B	Two	1	1	81-3A		92-1463		
					81-3B		92-1463		
					81-3C		92-1463		
		Three	2	2	81-3B		95-1221		
					81-3C		95-1222		
C 4.40	47 MS SG1 270	One	20	20	UV170	87-1375			Vol/IEB 79-13
	48 MS SG1 @ 90	One	20	20	UV180	87-1376			Vol/IEB 79-13
	49 MS SG 2 East	Three	20	20	UV171	95-1242			
	50 MS SG 2 West	Three	20	20	UV181	95-1243			
	56 FW SG1	Two	20	20	UV132	92-1501			

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	20	20	UV174	92-1500			
	57 FW SG 2	Three	20	20	UV137	95-1244			
		Three	20	20	UV177	95-1245			
C 5.11	58 Aux & FW SG 1	One	1	1	58-1	90-1004	90-1002		
& C5.12		Two	2(5)	2(5)	58-12	92-1412	92-1378		
					58-13	92-1413	92-1378		Reject (surf.)
							92-1475		Re-exam
					58-16	92-1339	92-1343		
					58-16A	92-1340	92-1343		
					58-1	93-1200	93-1026		
						93-1098			
					58-24	93-1204	93-1005		
					58-25	93-1205	93-1192		
		Three	0(5)	0(5)	58-1	96-1306	96-1266		
						98-1101	98-1088		PSE
					58-2	98-1104	98-1089		PSE
					58-3	98-1106	98-1088		PSE
					58-12	96-1330	96-1266		
					58-13	96-1329	96-1266		
					58-16	96-1370	96-1310		
					58-16A	96-1371	96-1310		
					58-16B	98-1102	98-1088		PSE
					58-17	98-1103	98-1088		PSE
	59 Aux & FW SG 2	One	1	1	59-1	89-1115	89-1069		
		Two	3(5)	3(5)	59-12	92-1347	92-1344		
					59-13	92-1348	92-1344		
					59-16	92-1341	92-1328		
					59-16A	92-1342	92-1328		
					59-1	93-1201	93-1027		Reject (surf.)
						93-1097	93-1041		Re-exam (surf.)
					59-18	93-1206	93-1007		
					59-24	93-1207	93-1007		
					59-25	93-1208	93-1007		
		Three	1 (5)	1(5)	59-1		95-1178		Re-exam (surf)
					59-1	96-1256	96-1245		
					59-3	98-1093	98-1086		
					59-12	96-1311	96-1267		
					59-13	96-1367	96-1267		
					59-16	96-1368	96-1309		
					59-16A	96-1369	96-1309		
C 5.21	43 MS SG 1 90	One	3	3	43-1	87-1557	87-1527		
& C 5.22					43-2	87-1547	87-1527		
					43-22	87-1532	87-1515		
		Three	2	2	43-24	96-1228	96-1218		
					43-25	96-1227	96-1218		
	44 MS SG 1 270	One	3	3	44-26	87-1548	87-1528		
					44-28	87-1533	87-1528		
					44-30	87-1534	87-1528		
		Two	1	1	44-5	93-1186	93-1115		
		Three	2	2	44-1	96-1366	96-1328		
					44-2	96-1365	96-1328		

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
	45 MS SG 2 270	Two	2	2	45-1	93-1193	93-1099		
					45-2	93-1195	93-1099		
		Three	3	3	45-22	96-1226	96-1219		
					45-24	96-1225	96-1219		
					45-25	96-1224	96-1219		
	46 MS SG 2 90	One	2	2	46-25	87-1523	87-1519		
					46-27	87-1524	87-1519		
		Two	2	2	46-1	93-1194	93-1100		
					46-2	93-1196	93-1100		
		Three	1	1	46-28	96-1223	96-1220		
	54 FW SG 1	One	5	5	54-25A	89-1127	89-1129		
					54-27	89-1128	89-1104		
					54-41	89-1112	89-1063		
					54-49	89-1113	89-1063		
					54-50	89-1114	89-1063		
		Two	5	5	41-45		93-1240		
					54-1		93-1240		
					54-9	93-1388	93-1241		
					54-10	93-1387	93-1241		
					54-11A	93-1327	93-1241		
					54-59	93-1209	93-1174		
					54-60	93-1210	93-1174		Reject
							93-1175		Re-exam
		Three	6	6	54-60		95-1317		Re-exam
					54-1	96-1035	96-1033		
					41-44	98-1057	96-1033		
					54-15	96-1034	96-1033		
					54-51	96-1521	96-1515		
					54-52	96-1524	96-1515		
					41-45	98-1047	96-1033		
	55 FW SG 2	One	5	5	42-44	89-1117	89-1066		
					55-11	89-1118	89-1066		
					55-12	89-1119	89-1068		
					55-15	89-1116	89-1066		
					55-26	89-1120	89-1066		
		Two	5	5	42-44		93-1364		
					42-45	93-1408	93-1364		
					55-1	93-1406	93-1364		
					55-2		93-1364		
					55-15	93-1407	93-1364		
					55-16		93-1364		
					55-38	93-1211	93-1004		
							93-1181		
					55-39	93-1212	93-1004		
							93-1181		
					55-41	93-1213	93-1004		
							93-1181		
		Three	5	5	55-43	96-1380	96-1327		
					55-53	96-1379	96-1327		
					55-54	96-1378	96-1327		

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
					55-59	96-1523	96-1514		
					55-60	96-1522	96-1514		
					42-44	98-1049			
					42-45	98-1048			
	58 Aux & FW SG 1	One	3	3	41-39	90-1003	90-1002		
					58-19	87-1481	87-1480		
					58-20	87-1482	87-1480		
		Three	2	2	58-33	96-1087	96-1053		
					58-34	96-1088	96-1053		
	59 Aux & FW SG 2	One	2	2	59-33	87-1483	87-1479		
					59-34	87-1484	87-1479		
		Two	2	2	59-16C	93-1130	93-1006		
						93-1238			
					59-20	93-1131	93-1103		
		Three	1	1	42-39	96-1307	96-1245		
	62 Aux & FW SG 1	One	1	1	62-24	87-1367	87-1359		
		Two	2	2	62-5	93-1127	93-1091		
					62-6	93-1128	93-1091		
		Three	2	2	62-12	96-1300	96-1269		
					62-13	96-1299	96-1268		
	63 Aux & FW SG 2	One	1	1	63-4	87-1368	87-1360		
		Two	2	2	63-20	93-1129	93-1092		
					63-23	93-1126	93-1092		
		Three	2	2	63-29	96-1554	96-1563		
					63-30	96-1553	96-1563		
	64 Blowdown SG 1	One	2	2	64-1	89-1121	89-1105		
					64-2	89-1122	89-1105		
		Two	4	4	64-1	93-1390	93-1358		
					64-2	93-1389	93-1358		
					64-8	93-1311	93-1284		
					64-16	93-1312	93-1284		
					64-29	93-1392	93-1358		
					64-30	93-1391	93-1358		
						93-1367			RT Exam
		Three	4	4	64-11	96-1527	96-1516		
					64-22	96-1528	96-1516		
					64-52	96-1526	96-1516		
					64-53	96-1525	96-1516		
	65 Blowdown SG 2	One	4	4	65-22	89-1123	89-1065		
					65-24	89-1124	89-1065		
					65-27	89-1125	89-1065		
					65-28	89-1126	89-1065		
		Two	3	3	65-1	93-1394	93-1341		
					65-28	93-1393	93-1341		
					65-49	93-1313	93-1285		
					65-51	93-1314	93-1285		
					65-52	93-1315	93-1285		
		Three	4	4	65-1	96-1564	96-1562		
					65-2	96-1565	96-1086		
							96-1562		
					65-13	96-1098	96-1086		

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
					65-29	96-1097	96-1086		
C6.20	86 BW Gate Valves 6"	Three	1	1	V464		96-1478		
	89 BW Gate Valves 16"	Three	1	1	V656		96-1325		
	Dresser PSV 6" X 10"								
	47 Main Steam Safety	Three	1	1	PSV572		96-1598		Serial#BT01681
					PSVXXX		96-1598		Serial#BT01683
					PSVXXX		96-1598		Serial#BS08597
					PSVXXX		96-1598		Serial#BY14539
C 7.10	N/A Pressure Vessels	One	All	All	Press Bound			*	*91-1005, 91-1020,
C 7.30	N/A Piping								91-1021, 91-1026,
C 7.50	N/A Pumps								91-1027, 91-1028,
C 7.70	N/A Valves								91-1029, 91-1030,
									91-1036, 91-1037,
		Two	All	All	Press Bound				92-1560, 92-1561,
									92-1562, 92-1563,
									92-1567
									93-1001, 93-1437,
									94-1001,
C7.10	N/A Pressure Vessels	Three	All	All	Press Bound			95-1579, 96-1020,	
C7.20								96-1028, 96-1030,	
C7.30	N/A Piping							96-1050, 96-1602,	
C7.40								96-1002, 96-1010,	
C7.50	N/A Pumps							96-1011, 96-1013,	
C7.60								96-1021,98-1021A	
C7.70	N/A Valves							98-1009	N-498
C7.80								98-1010	N-498
								98-1011	N-498
								98-1014	N-498
								98-1018	N-498
								98-1022A	N-498
								98-1082	N-498
								98-1137	N-498
								98-1138	N-498
								98-1141	N-498
								98-1142	N-498
								98-1153	N-498
								98-1154	N-498
								98-1155	N-498
								99-1008	N-498
								99-1009	N-498
								99-1012	N-498
								99-1013	N-498
								99-1015	N-498
								99-1017	N-498
								99-1018	N-498
								99-1019	N-498
								99-1021	N-498
								99-1027	N-498
								99-1026	N-498
								99-1143	N-498

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
								99-1144	N-498
								99-1148	N-498
								99-1149	N-498
								99-1154	N-498
								99-1156	N-498
								99-1158	N-498
								99-1176	N-498
								99-1313	N-498
								99-1434	N-498
CIWF	41 SG 1	One	2	2	41-42			90-1023	
					41-43			90-1024	
	42 SG 2	Two	2	2	42-42			93-1385	
					42-43			93-1386	
	43 MS SG 1 90	One	3	3	SG-36-H17			87-1513	
					SG-36-H884			87-1522	
					SG-36-H885			87-1514	
		Two	2	2	SG-36-H11			93-1121	
					SG-36-H12			93-1434	PSE
					SG-36-H13			93-1122	
								93-1432	PSE
		Three	4	4	SG-36-H11			95-1095	Re-exam (U2 reject)
					SG-36-H13			96-1349	
					SG-36-H14			96-1350	
					SG-36-H15			96-1353	
					SG-36-H16			96-1352	
	44 MS SG 1 270	One	2	2	SG-33-H17			87-1600	
					SG-33-H18			87-1516	
		Two	5	5	SG-33-H14			93-1119	
								93-1435	PSE
					SG-33-H15			93-1433	PSE
					SG-33-H16			93-1120	
					SG-33-H881			93-1117	
					SG-33-H882			93-1118	
					SG-33-H13			93-1419	PSE/Replace
		Three	3	3	SG-33-H11			96-1354	
					SG-33-H12			96-1351	
					SG-33-H13			95-1434	Re-exam
								96-1355	
	45 MS SG 2 270	One	3	3	SG-42-H14			87-1537	
					SG-42-H15			87-1599	
					SG-42-H16			87-1518	
		Two	3	3	SG-42-H11			93-1107	Reject
								93-1410	Re-exam
					SG-42-H12			93-1431	PSE
					SG-42-H13			93-1108	
		Three	3	3	SG-42-H11			95-1096	Reject
								95-1510	Re-exam
								95-1572	Re-exam
								96-1342	Re-exam
					SG-42-H17			96-1343	

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
					SG-42-H890			96-1340	
					SG-42-H891			96-1341	
	46 MS SG 2 90	One	2	2	SG-45-H17			87-1520	
					SG-45-H18			87-1521	
		Two	5	5	SG-45-H11			93-1111	
					SG-45-H12			93-1112	
					SG-45-H13			93-1113	
								93-1420	PSE/Replace
					SG-45-H887			93-1110	
					SG-45-H888			93-1109	
		Three	3	3	SG-45-H13			95-1097	Re-exam (U2 reject)
					SG-45-H14			96-1345	
					SG-45-H15			96-1344	
					SG-45-H16			96-1346	
	47 MS SG 1 270	One	1	1	SG-206-H1			87-1240	
								92-1553	
	48 MS SG1 90	Two	1	1	SG-207-H1			92-1350	Reject
								92-1554	Re-exam
	49 MS SG 2 90	Two	0	0	SG-208-H1			92-1555	
		Three	1	1	SG-208-H1			95-1544	
	50 MS SG 2 270	Two	0	0	SG-209-H1			92-1556	
		Three	1	1	SG-209-H1			95-1421	
	51 ADV # 1	One	1	1	SG-59-H6			87-1606	
		Two	1	1	SG-70-H6			92-1278	
		Three	0	0	SG-59-H6			98-1108	PSE/Replace
	52 ADV # 2	Three	2	2	SG-84-H6			95-1184	
					SG-84-H6			98-1107	PSE/Replace
					SG-103-H6			95-1185	
	53 Steam to Aux FW	One	4	4	SG-81-H1			87-1241	
					SG-81-H2			87-1242	
					SG-83-H1			87-1243	
					SG-83-H2			87-1244	
		Two	2	2	SG-81-H4			92-1279	
					SG-83-H4			92-1280	
		Three	2	2	SG-81-H3			95-1247	
					SG-83-H3			95-1246	
	54 FW SG 1	One	7	7	SG-2-H4			89-1111	Reject
								89-1239	Re-exam
					SG-2-H5			89-1082	
					SG-2-H12			89-1158	
					SG-2-H13			89-1083	Reject
								90-1022	Re-exam
					SG-2-H14			89-1084	
					SG-2-H15			89-1085	
					SG-2-H803			89-1159	
		Two	7	7	SG-13-H802			93-1343	
					SG-13-H1			93-1342	Reject
								93-1425	Re-exam
					SG-2-H806			93-1002	
					SG-2-H811			93-1426	
					SG-2-H9			93-1430	

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
					SG-2-H10			93-1429	
					SG-2-H11			93-1428	
		Three	6	6	SG-13-H1			95-1177	Re-exam
					SG-2-H1			96-1075	
					SG-2-H2			96-1078	
					SG-2-H3			96-1081	
					SG-2-H6			96-1076	
					SG-2-H8			96-1082	Reject
								96-1590	Re-exam
								98-1025A	Re-exam
					SG-2-H807			96-1079	
	55 FW SG 2	One	9	9	SG-5-H8			86-98	PSE
					SG-5-H9			89-1131	
					SG-5-H10			89-1132	
					SG-5-H11			89-1133	
					SG-5-H12			89-1134	
					SG-5-H805			89-1137	
					SG-5-H809			90-1026	
					SG-5-H812			89-1138	
					SG-14-H1			89-1135	
					SG-14-H804			89-1136	
		Two	7	7	SG-5-H14			92-1524	PSE/Snub. Replace
					SG-5-H4			93-1215	
					SG-5-H5			93-1216	
					SG-5-H6			93-1217	
					SG-5-H7			93-1218	
					SG-5-H8			93-1219	
					SG-5-H13			93-1214	
					SG-5-H809			93-1003	
		Three	4	4	SG-5-H1			96-1080	
					SG-5-H2			96-1195	
					SG-5-H3			96-1084	
					SG-5-H808			96-1083	
	56 FW SG 1	Two	1	1	SG-202-H1			92-1511	
	57 FW SG 2	Three	1	1	SG-205-H2			96-1356	
	58 Aux & FW SG 1	One	7	7	SG-8-H2			89-1173	
					SG-8-H3			89-1174	
					SG-8-H4			89-1175	
					SG-8-H5			89-1176	
					SG-8-H20			89-1177	
					SG-8-H901			89-1178	
					SG-8-H903			89-1179	
		Two	7	7	SG-8-H10			92-1525	PSE/Snub. Replace
					SG-8-H6			93-1353	
					SG-8-H7			93-1354	
					SG-8-H8			93-1356	
					SG-8-H9			93-1357	
					SG-8-H11			93-1352	
					SG-8-H17			93-1355	
					SG-8-H20			93-1418	
		Three	8	8	SG-8-H12			96-1056	

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
					SG-8-H13			96-1194	
					SG-8-H14			96-1054	
					SG-8-H15			96-1058	
					SG-8-H16			96-1057	
					SG-8-H18			96-1059	
					SG-8-H19			96-1196	
					AF-4-H1			96-1055	
	59 Aux & FW SG 2	One	6	6	AF-6-H1			87-1452	
					SG-11-H8			87-1453	
					SG-11-H9			87-1454	
					SG-11-H10			87-1455	
					SG-11-H11			87-1456	
					SG-11-H12			87-1457	
		Two	6	6	SG-11-H13			93-1345	
					SG-11-H14			93-1351	
					SG-11-H15			93-1350	
					SG-11-H16			93-1349	
					SG-11-H18			93-1348	
					SG-11-H19			93-1344	
		Three	10	10	SG-11-H2			96-1251	
					SG-11-H3			96-1254	
					SG-11-H4			96-1255	
					SG-11-H5			96-1252	
					SG-11-H6			96-1246	
					SG-11-H7			96-1248	
					SG-11-H17			96-1247	
					SG-11-H20			96-1253	
					SG-11-H902			96-1250	
					SG-11-H904			96-1249	
	60 Downcomer FW SG 1	One	1	1	SG-200-H9			87-1296	
		Three	2	2	SG-200-H13			96-1201	
					SG-200-H14			96-1202	
	61 Downcomer FW SG 2	Two	2	2	SG-203-H13			92-1281	
					SG-203-H14			92-1282	
		Three	1	1	SG-203-H8			95-1325	
	62 Aux FW SG 1	One	1	1	AF-4-H3			87-1245	
		Two	1	1	AF-18-H1			93-1125	
		Three	2	2	AF-18-H2			96-1199	
					AF-18-H3			96-1203	
	63 Aux FW SG 2	One	2	2	AF-6-H2			87-1246	
					AF-16-H1			87-1247	
		Two	2	2	AF-6-H3			93-1124	
					AF-6-H5			93-1123	Reject
								93-1427	Re-exam
		Three	1	1	AF-6-H5			95-1446	Re-exam
					AF-6-H4			96-1200	
	64 Blowdown SG 1	One	12	12	SG-39-H10			89-1086	
					SG-39-H11			89-1087	
					SG-39-H12			89-1088	Reject
								90-1021	Reject
								90-1027	Re-exam

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
					SG-39-H13			89-1089	Reject
								89-1240	Re-exam
					SG-39-H14			89-1090	
					SG-39-H15			89-1091	
					SG-39-H16			89-1092	Reject
								90-1028	Re-exam
					SG-39-H17			89-1093	
					SG-39-H26			89-1094	
					SG-53-H1			89-1160	
					SG-53-H2			89-1161	
					SG-53-H924			89-1162	
		Two	13	13	SG-39-H1			93-1359	
					SG-39-H2			93-1346	
					SG-39-H3			93-1302	
					SG-39-H4			93-1303	
					SG-39-H5			93-1304	
					SG-39-H6			93-1305	
					SG-39-H27			93-1306	
					SG-39-H922			93-1347	
					SG-53-H3			93-1301	
					SG-53-H4			93-1300	
					SG-53-H5			93-1299	
					SG-53-H6			93-1298	
					SG-53-H7			93-1297	
		Three	12	12	SG-39-H10			95-1537	PSE
					SG-39-H7			96-1043	
					SG-39-H8			96-1044	
					SG-39-H9			96-1045	
					SG-39-H18			96-1046	
					SG-39-H19			96-1041	
					SG-39-H20			96-1039	
					SG-39-H21			96-1047	
					SG-39-H22			96-1049	Reject
								96-1588	Re-exam
								98-1029A	Re-exam
					SG-39-H23			96-1040	
					SG-39-H24			96-1051	
					SG-39-H25			96-1042	Reject
								96-1589	Re-exam
								98-1026A	Re-exam
					SG-39-H28			96-1048	
	65 Blowdown SG 2	One	12	12	SG-48-H2			89-1139	
					SG-48-H3			89-1095	
					SG-48-H4			89-1096	
					SG-48-H19			89-1097	
					SG-48-H20			89-1098	
					SG-48-H21			89-1099	
					SG-48-H925			89-1143	
					SG-52-H1			89-1140	
					SG-52-H2			89-1141	
					SG-52-H3			89-1100	

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
					SG-52-H4			89-1101	
					SG-53-H923			89-1142	
		Two	11	11	SG-48-H13			93-1286	
					SG-48-H14			93-1287	
					SG-48-H15			93-1288	
					SG-48-H16			93-1289	
					SG-48-H17			93-1290	
					SG-48-H18			93-1291	Reject
								93-1423	Re-exam
					SG-48-H22			93-1292	
					SG-48-H23			93-1293	Reject
								93-1424	Re-exam
					SG-48-H24			93-1294	
					SG-48-H25			93-1296	
					SG-48-H26			93-1295	
		Three	13	13	SG-48-H18			95-1179	Re-exam
					SG-48-H23			95-1180	Re-exam
					SG-48-H1			96-1066	
					SG-48-H5			96-1074	
					SG-48-H6			96-1070	
					SG-48-H7			96-1069	
					SG-48-H8			96-1064	
					SG-48-H9			96-1065	
					SG-48-H10			96-1072	
					SG-48-H11			96-1186	
					SG-48-H27			96-1197	
					SG-48-H28			96-1198	
					SG-52-H5			96-1068	
					SG-52-H6			96-1067	
					SG-52-H7			96-1071	
	68 Regen. HT Exch.	Two	1	1	68-10			93-1414	
		Three	1	1	68-11			96-1599	
								98-1037	Re-exam
					68-10			98-1037	Re-exam
	70 LPSI A Suction	One	1	1	SI-67-H4			87-1301	
		Three	4	4	SI-241-H20			95-1227	
					SI-241-H22			95-1228	
					SI-307-H16			95-1229	
					SI-307-H17			95-1230	
	71 LPSI A Discharge	One	1	1	SI-87-H11			87-1302	
		Two	5	5	SI-78-H1			92-1109	
					SI-78-H2			92-1110	
					SI-87-H1			92-1111	
					SI-87-H2			92-1112	
					SI-87-H3			92-1108	
	72 LPSI Pump A	One	2	2	72-3A			87-1369	
					72-3B			87-1369	
		Two	1	1	72-3A			92-1231	
					72-3B			92-1232	
					72-3C			92-1233	
	73 LPSI Pump B Suction	Two	1	1	SI-308-H14			92-1125	

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
		Three	4	4	SI-34-H4			95-1135	
					SI-194-H1			95-1136	
					SI-308-H12			95-1137	
					SI-308-H13			95-1138	
					SI-308-H12			96-1579	PSE/Snub. Replaced
	74 LPSI Pump B	Three	6	6	SI-129-H1			95-1100	
					SI-129-H2			95-1101	
					SI-129-H3			95-1140	
					SI-129-H4			95-1102	
					SI-129-H5			95-1103	
					SI-129-H6			95-1219	
	75 LPSI Pump B Discharge	Two	1	1	73-3A			92-1510	
					73-3B			92-1510	
					73-3C			92-1510	
		Three	2	2	73-3B			95-1186	
					73-3C			95-1186	
	76 CS Pump A Suction	One	1	1	SI-9-H4			87-1259	
		Three	4	4	SI-67-H1			95-1231	
					SI-67-H2			95-1232	
					SI-67-H3			95-1422	
					SI-78-H3			95-1233	
	77 CS Pump A Discharge	One	4	4	SI-79-H1			87-1267	
					SI-79-H2			87-1264	
					SI-79-H3			87-1265	
					SI-79-H4			87-1266	
		Two	3	3	SI-79-H5			92-1113	
					SI-79-H6			92-1114	
					SI-82-H2			92-1115	
		Three	3	3	SI-79-H7			95-1417	
					SI-79-H8			95-1234	
					SI-79-H9			95-1235	
	78 CS Pump A	One	2	2	80-3A			87-1260	
					80-3B			87-1260	
		Two	1	1	80-3A			92-1227	
					80-3B			92-1228	
					80-3C			92-1229	
	79 CS Pump B Suction	One	3	3	SI-34-H1			87-1253	
					SI-34-H2			87-1254	
					SI-34-H3			87-1255	
		Two	2	2	SI-33-H3			92-1127	
					SI-33-H4			92-1126	
		Three	2	2	SI-34-H5			95-1048	
					SI-34-H6			95-1220	
					SI-34-H1			96-1578	PSE/Snub. Replace
					SI-34-H3			96-1583	PSE/Snub. Replace
	80 CS Pump B Discharge	One	3	3	SI-119-H7			87-1256	
					SI-119-H8			87-1331	
					SI-119-H9			88-1006	
		Two	4	4	SI-119-H1			92-1128	
					SI-119-H2			92-1129	
					SI-119-H3			92-1130	

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-119-H4			92-1131	
		Three	3	3	SI-119-H5			95-1050	
					SI-119-H6			95-1051	
					SI-147-H1			95-1052	
	81 CS Pump B	Two	1	1	81-3A			92-1425	
					81-3B			91-1425	
					81-3C			91-1425	
		Three	2	2	81-3A			95-1223	
					81-3B			95-1223	
					81-3C			95-1223	
	82 SD Cooling A	One	2	2	SI-78-H5			87-1278	
					SI-79-H10			87-1279	
		Three	1	1	SI-78-H4			95-1327	
	83 Shutdown Cooling A	One	4	4	SI-87-H9			87-1280	
					SI-89-H1			87-1281	
					SI-89-H2			87-1282	
					SI-89-H3			87-1283	
		Two	3	3	SI-87-H4			92-1104	
					SI-90-H1			92-1145	
					SI-90-H2			92-1105	
								93-1417	PSE
		Three	12	12	SI-70-H1			95-1330	
					SI-70-H2			95-1331	
					SI-70-H3			95-1332	
					SI-70-H6			95-1333	
					SI-70-H7			95-1255	
					SI-87-H5			95-1256	
					SI-87-H6			95-1257	
					SI-87-H7			95-1258	
					SI-87-H8			95-1259	
					SI-90-H4			95-1335	
					SI-82-H1			95-1334	
					SI-89-H5			95-1260	
	85 SD Cooling B	One	3	3	SI-119-H10			87-1252	
					SI-123-H6			88-1005	
					SI-123-H7			87-1249	
		Two	6	6	SI-119-H11			92-1183	
					SI-119-H13			92-1184	
					SI-119-H14			92-1102	
					SI-123-H2			92-1185	
					SI-123-H5			92-1103	
					SI-123-H8			92-1186	
		Three	1	1	SI-123-H1			95-1125	
	86 SD Cooling B	One	3	3	SI-129-H10			87-1248	
					SI-129-H11			87-1250	
					SI-129-H12			87-1251	
		Two	7	7	SI-129-H7			92-1107	
					SI-129-H8			92-1106	
					SI-135-H1			92-1134	
					SI-135-H2			92-1135	
					SI-135-H3			92-1136	

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-72-H3			92-1526	PSE/Snub. Replace
					SI-72-H5			92-1132	
					SI-72-H6			92-1133	
		Three	15	15	SI-129-H9			95-1064	Reject
								95-1511	Re-exam
								96-1479	Re-exam
					SI-129-H13			95-1065	
					SI-134-H1			95-1190	
					SI-134-H2			95-1191	
					SI-134-H3			95-1192	
					SI-134-H5			95-1066	
					SI-134-H6			95-1067	
					SI-134-H7			95-1068	
					SI-134-H8			95-1069	
					SI-72-H1			95-1059	
					SI-72-H2			95-1060	
					SI-72-H3			95-1061	
					SI-72-H4			95-1062	
					SI-72-H12			95-1063	
					SI-147-H2			95-1070	
	88 LPSI B	One	8	8	SI-72-H11			87-1314	
					SI-72-H13			87-1315	
					SI-72-H14			87-1316	
					SI-72-H21			87-1317	
					SI-72-H22			87-1318	
					SI-73-H1			87-1319	
					SI-73-H2			87-1320	
					SI-73-H3			87-1321	
		Three	6	6	SI-72-H15			95-1071	
					SI-72-H16			95-1072	
					SI-72-H17			95-1073	
					SI-72-H18			95-1074	
					SI-72-H19			95-1075	
					SI-72-H20			95-1076	Reject
								95-1512	Re-exam
					SI-72-H20			96-1271	Re-exam
	89 LPSI B	One	4	4	SI-194-H12			87-1310	
					SI-194-H13			87-1311	
					SI-194-H14			87-1312	
					SI-194-H18			87-1626	
					SI-194-H23			87-1313	
		Three	1	1	SI-173-H1			95-1078	
					SI-194-H13			96-1581	PSE/Snub. Replace
	90 CS B	Two	2	2	SI-134-H9			92-1137	
					SI-134-H10			92-1138	
	91 LPSI A	One	7	7	SI-70-H9			87-1342	
					SI-70-H10			88-1001	
					SI-70-H11			87-1343	
					SI-70-H12			87-1344	
					SI-70-H13			88-1003	
					SI-70-H15			87-1345	

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-70-H16			87-1644	
		Two	2	2	SI-71-H2			92-1139	
					SI-71-H3			92-1140	
		Three	1	1	SI-70-H14			95-1249	
	92 LPSI A	One	5	5	SI-239-H3			87-1341	
					SI-241-H12			87-1339	
					SI-241-H14			87-1349	
					SI-241-H15			87-1350	
					SI-241-H21			87-1340	
		Two	5	5	SI-239-H1			92-1323	
					SI-239-H2			92-1324	
					SI-241-H9			92-1164	
					SI-241-H11			92-1165	
					SI-241-H16			92-1166	
		Three	2	2	SI-2-H1			95-1250	
					SI-2-H5			95-1251	
	93 CS Discharge 1	Two	2	2	SI-89-H10			92-1141	
					SI-89-H13			92-1182	
		Three	2	2	SI-89-H11			95-1252	
					SI-89-H12			95-1253	
	94 LPSI A	One	3	3	SI-89-H7			87-1291	
					SI-89-H8			87-1292	
					SI-89-H9			87-1293	
		Two	7	7	SI-70-H4			92-1187	
					SI-70-H5			92-1223	
					SI-70-H8			92-1199	
					SI-241-H6			92-1123	
								93-1416	
					SI-241-H7			92-1124	
					SI-241-H8			92-1188	
					SI-241-H17			92-1189	Reject
								92-1551	PSE/Re-exam
		Three	5	5	SI-89-H6			95-1236	
					SI-241-H2			95-1237	
					SI-241-H3			95-1238	
					SI-241-H4			95-1239	
					SI-241-H5			95-1240	
	95 LPSI B	One	6	6	SI-72-H8			87-1289	
					SI-72-H10			87-1290	
					SI-134-H11			87-1294	
					SI-134-H12			87-1295	
					SI-194-H3			87-1258	
					SI-194-H5			87-1257	
		Two	10	10	SI-72-H7			92-1101	
					SI-72-H9			92-1116	
					SI-194-H4			92-1117	
					SI-194-H7			92-1118	
					SI-194-H8			92-1119	
					SI-194-H9			92-1120	
					SI-194-H10			92-1190	
					SI-194-H11			92-1121	

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-194-H15			92-1191	
					SI-194-H21			92-1122	
		Three	3	3	SI-134-H4			95-1146	
					SI-194-H2			95-1122	
					SI-194-H6			95-1080	Reject
								95-1513	Re-exam
								96-1347	Re-exam
					SI-194-H21			95-1516	PSE/Snub. Replaced
					SI-194-H5			96-1585	PSE/Snub. Replaced
					SI-194-H7			96-1584	PSE/Snub. Replaced
					SI-194-H15			96-1582	PSE/Snub. Replaced
	96 LPSI To Loop 1A	One	3	3	SI-202-H7			87-1493	
					SI-202-H8			87-1494	
					SI-202-H9			87-1495	
		Two	8	8	SI-202-H2			92-1284	
					SI-202-H3			92-1247	
								92-1533	PSE/Snub. Reduction
					SI-202-H4			92-1248	
					SI-202-H5			92-1249	
					SI-202-H6			92-1250	
					SI-202-H10			92-1251	
					SI-202-H11			92-1252	
					SI-202-H12			92-1534	PSE/Snub. Reduction
					SI-202-H15			92-1269	Reject
								92-1486	Re-exam
		Three	7	7	SI-202-H1			95-1082	
					SI-202-H12			95-1083	
					SI-202-H13			95-1084	
					SI-202-H14			95-1085	DCN/Snub Removed
					SI-202-H16			95-1086	
					SI-202-H17			95-1087	
					SI-202-H18			95-1088	Reject
								95-1577	Re-exam
								96-1339	Re-exam
	97 LPSI To Loop 1B	One	10	10	SI-220-H8			89-1180	
					SI-220-H9			87-1496	
					SI-220-H10			87-1497	
					SI-220-H11			87-1498	
					SI-220-H12			87-1499	
					SI-220-H13			87-1500	
					SI-220-H14			87-1501	
					SI-220-H15			87-1506	
					SI-220-H19			87-1502	
					SI-220-H22			87-1507	
		Two	7	7	SI-220-H1			92-1253	
					SI-220-H7			92-1535	PSE/Snub. Reduction
					SI-220-H12			92-1536	PSE/Snub. Reduction
					SI-220-H16			92-1285	
					SI-220-H17			92-1254	
					SI-220-H18			92-1255	
					SI-220-H20			92-1286	

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-220-H21			92-1256	
					SI-220-H24			92-1537	PSE/Snub. Reduction
					SI-220-H27			92-1538	PSE/Snub. Reduction
					SI-220-H28			92-1287	
					SI-220-H29			92-1539	PSE/Snub. Reduction
		Three	10	10	SI-220-H3			95-1200	
					SI-220-H5			95-1201	
					SI-220-H6			95-1202	
					SI-220-H7			95-1203	
					SI-220-H23			95-1423	
					SI-220-H24			95-1204	
					SI-220-H25			95-1205	
					SI-220-H26			95-1206	
					SI-220-H27			95-1207	
					SI-220-H29			95-1208	
	98 LPSI To Loop 2A	One	2	2	SI-155-H4			87-1627	PSE
					SI-155-H5			87-1503	
					SI-155-H6			87-1504	
		Two	5	5	SI-155-H1			92-1288	
					SI-155-H2			92-1289	
					SI-155-H3			92-1257	
					SI-155-H4			92-1258	
					SI-155-H6			92-1540	PSE/Snub. Reduction
					SI-155-H7			92-1259	
	99 LPSI To Loop 2B	Two	5	5	SI-174-H7			92-1375	
					SI-174-H8			92-1376	
								92-1532	PSE/Snub. Reduction
					SI-174-H9			92-1260	
					SI-174-H10			92-1261	
					SI-174-H13			92-1377	
		Three	5	5	SI-174-H4			95-1209	
					SI-174-H5			95-1210	
					SI-174-H6			95-1211	
					SI-174-H11			95-1212	
					SI-174-H12			95-1213	
	100 LPSI A Suction	One	2	2	SI-241-H19			87-1471	
					SI-369-H1			87-1434	
		Two	1	1	84-5			92-1484	
	101 Cont. LPSI B Suction	Three	8	8	SI-194-H16			95-1090	Reject
								95-1538	Re-exam
								96-1337	Re-exam
					SI-194-H18			95-1091	
					SI-194-H22			95-1155	Reject
								95-1576	Re-exam
								96-1338	Re-exam
					SI-194-H25			95-1092	Reject
								95-1514	Re-exam
								96-1336	Re-exam
					SI-194-H26			95-1093	
					SI-368-H1			95-1094	
					SI-368-H2			95-1517	

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
					85-5			98-1058	
FR 5.11 & FR 5.12	70 LPSI A Suction	One	3	3	70-58	87-1325	87-1303		
					70-69	87-1363	87-1361		
					70-104	87-1326	87-1303		
		Two	4	4	70-44	92-1295	92-1283		
					70-46	92-1294	92-1283		
					70-61	92-1296	92-1283		
					70-103	92-1297	92-1283		
	71 LPSI A Discharge	One	3	3	72-5	87-1327	87-1304		
					72-6	87-1328	87-1304		
					72-8	87-1329	87-1304		
		Two	3	3	72-18	92-1353	92-1345		
					74-45	92-1354	92-1345		
					74-46	92-1355	92-1345		
	73 LPSI B Suction	Three	3	3	71-55	95-1158	95-1157		
					71-69	95-1133	95-1132		
					71-110	95-1134	95-1157		
	74 LPSI B Discharge	Three	2	2	73-8	95-1139	95-1241		
					73-30	95-1217	95-1216		
	76 CS A Suction	One	2	2	80-10	87-1271	87-1262		
					80-16	87-1270	87-1263		
	77 CS A Discharge	One	3	3	82-1	87-1273	87-1269		
					82-1A	87-1272	87-1269		
					82-2	87-1274	87-1269		
		Two	4*	4*	82-15	92-1204	92-1203		*required between
					82-16	92-1205	92-1203		2 zones
					82-31	92-1206	92-1203		
	79 CS Pump B Suction	Two	2	2	81-12	92-1207	92-1208		
					81-15	92-1209	92-1210		
		Three	2	2	81-1	95-1254	95-1248		
					81-8	95-1045	95-1044		
	80 CS Pump B Discharge	Two	4*	4*	83-1A	92-1464	92-1426		
		Three	4	4	83-2	95-1057	95-1049		
					83-3	95-1058	95-1049		
					83-16	95-1141	95-1123		
					83-30	95-1142	95-1123		
	82 SD Cooling A	One	2	2	72-48	87-1284	87-1275		
					72-61	87-1285	87-1275		
		Two	4*	4*	72-52	92-1211	92-1213		*required between
						92-1212			2 zones
	83 SD Cooling A	One	6	6	74-19	87-1299	87-1277		
					74-21	87-1300	87-1277		
					74-74	87-1286	87-1276		
					74-87	87-1287	87-1276		
					74-100	87-1297	87-1277		
					74-105	87-1298	87-1277		
		Two	3	3	74-1	92-1200	92-1196		
						92-1201			
					74-3	92-1202	92-1196		
					74-117	92-1171	92-1149		
					74-118	92-1172	92-1149		

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
	85 SD Cooling B	Two	4*	4*	73-36	92-1194	92-1181		
					73-37	92-1195	92-1181		
					73-63	92-1197	92-1198		
		Three	1	1	73-54	95-1161	95-1159		
	86 SD Cooling B	Three	8	8	75-11	95-1162	95-1104		
					75-14	95-1164	95-1053		
					75-60	95-1188	95-1054		
					75-61	95-1056	95-1054		
					75-62	95-1160	95-1124		
					75-87	95-1189	95-1055		
					83-40	95-1143	95-1124		
					83-41	95-1144	95-1124		
	88 East Wrap	Three	1	1	79-1	95-1196	95-1195		
	89 LPSI Suction 2	Two	1	1	71-79	92-1173	92-1146		
		Three	2	2	71-88	95-1197	95-1145		
					71-91	95-1198	95-1077		
	90 LPSI B	Two	4*	4*	83-55	92-1174	92-1147		*required between
					83-56	92-1175	92-1147		2 zones
					83-59	92-1176	92-1167		
	91 LPSI A	One	2	2	74-44	87-1358	87-1335		
					76-2	87-1354	87-1338		
		Two	2	2	77-8	92-1177	92-1180		
					77-10D	92-1178	92-1168		
	92 LPSI A	One	5	5	70-2	87-1355	87-1332		
					70-16	87-1356	87-1333		
					70-17	87-1357	87-1333		
					70-80	87-1353	87-1333		
					70-85	87-1352	87-1333		
	93 SI West Wrap	Two	4*	4*	82-64	93-1328	93-1326		
	94 LPSI A	One	2	2	82-47	87-1308	87-1288		
					82-48	87-1307	87-1288		
	95 B Train 88' Pipe Chase	Three	2	2	71-34	95-1046	95-1079		
					71-36	95-1047	95-1079		
	100 LPSI A Suction	One	1	1	70-134	87-1586	87-1433		
		Two	2*	2*	70-116	92-1346	92-1326		*required between
	101 LPSI B Suction	Two	2*	2*	71-130	92-1356	92-1329		2 zones
		Three	4	4	71-112	95-1154	95-1089		
					71-113	95-1153	95-1089		
					71-124	95-1214	95-1152		
					85-3	98-1079	98-1076		
FR 5.21	88 LPSI B	One	1	1	78-16	87-1330	87-1323		
	93 Cont. Sump Suction	Two	1	1	84-9	92-1179	92-1169		
	96 Cont LPSI 1A	Three	3	3	76-25	95-1147	95-1081		
					76-27	95-1149	95-1081		
					76-47	95-1148	95-1105		
	97 LPSI B	Two	3	3	77-22	92-1334	92-1325		
					77-27	92-1335	92-1325		
					77-28D	92-1336	92-1325		
	98 LPSI to Loop 2A	One	2	2	78-45	87-1511	87-1505		
					78-47	87-1512	87-1505		
FR 5.31	82 SD Cooling A	One	1	1	72-49A		87-1275		

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
	86 SD Cooling B	Three	1	1	75-13	95-1163	95-1053		
	91 LPSI A	One	1	1	74-102		87-1351		

APPENDIX B

CODE LIMITATIONS

APPENDIX B

CODE LIMITATIONS

There were no Code Limitations identified
after the Seventh Refueling Outage.

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 running summary of all examinations performed to date for Unit 1. The items examined, along with the examination report numbers, are listed in Appendix A. The examinations performed after the last Summary Report was issued are identified with a 98-1XXX or 99-1XXX report number.

APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 8-11-98 TO 11-6-99

8. INSPECTION INTERVAL FROM 1-28-86 TO 7-17-98

9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

   There were no rejectable indications noted during this ISI activity.

10. ABSTRACT OF CONDITIONS NOTED

    There were no rejectable indications noted during this ISI activity.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

    There were no corrective measures required as a result of this ISI activity.

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

DATE 1/21/00 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY [signature] 1/26/00

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 8-11-98 TO 1-21-00, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS 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 [signature] COMMISSIONS NB 9685 "N" "I" Az. 264

NAT'L BOARD, STATE, PROVINCE

DATE January 21, 2000