PALO VERDE NUCLEAR GENERATING STATION

UNIT 2 INSERVICE INSPECTION REPORT

TENTH REFUELING OUTAGE

ARIZONA PUBLIC SERVICE
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PREPARED BY: _____ DATE: 7/10/02

REVIEWED BY: _____ DATE: 7-11-02

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ENCLOSURE 1

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT

TENTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 2

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UNIT 2 INSERVICE INSPECTION REPORT

1. Introduction

This report is a summary of the Inservice Inspection (ISI) examinations performed during the tenth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This report also includes all applicable examinations conducted since the last refueling outage. Selected examinations are being applied towards Period 1, with no credit taken for Period 2. This was the first refueling for Interval 2, Period 2, which was conducted from March 16, 2002 through April 17, 2002. Palo Verde Unit 2 began commercial operation on September 19, 1986.

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

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

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

This report is a summary of the ISI examinations performed during the Second Interval Second Period. All of the examination report numbers listed in Appendix "A" are for the tenth refueling and examinations performed since the last Summary Report. The examinations performed during the first period of the second interval were submitted by letter 102-04525-CDC/AKK/RKB, dated February 1, 2001.

2. Examination Summary

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

Visual examination of CH149H004 (ASME Class 2 Item F1.20 & F1.40, Zone 105) identified that the strut paddle ends were bent. The damaged portion of the strut was replaced and is listed in Section 7 for repairs and replacements. The probable cause was water hammer. A stress analysis was performed under CRDR 2507107 and determined that sufficient margins exist in the system and support designs to handle these increases. Therefore, the piping system was not compromised.

The Pressurizer skirt weld had rejectable indications within the weld. These indications were previously found and evaluated in 1993 and were determined satisfactory to "use as is" per MNCR 93-RC-2027. There has been essentially no change in the size or shape of the indications, characterized as sub-surface linear indications. As a requirement of IWB-3132.4 / IWB-2420 (b) and (c), this item has been reexamined every period for three successive inspections periods with essentially no change in the identified conditions. Period two of the second interval is the third successive examination and allows reverting to the original schedule of successive inspections.

Boric acid residue was detected on the tubing connected to the reactor vessel in-core instrument nozzles. The condition was investigated under CRAI 2334858 and determined to be the result of a prior packing leak and leakage from the ICI seal table. No indications of leakage of the tubes, nozzles, or reactor vessel were detected.

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

3. Examination Techniques

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

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

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. Accessibility

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

5. Personnel

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

6. Equipment and Materials

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

7. Repairs and Replacements

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

ZONE	WO / CRDR	ITEM SUMMARY #	DISCREPANCY
105	2506194 / 2507107	2-105-CH-149-H004	Bent strut paddle ends replaced

The applicable records and reports for the specific maintenance repair or replacements performed after the last summary report are maintained on file at Palo Verde. The applicable NIS-2 forms are an attachment to Appendix D and are submitted for review with this report.

APPENDIX A

INSERVICE INSPECTION

SUMMARY REPORT

Appendix A

Report Layout

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

CLASS:	ASME Section XI Subsection IWB for Class 1 and IWC for Class 2.
CATEGORY:	ASME Section XI Category Numbers are listed in Table IWB-2500-1 for Class 1 and Table IWC-2500-1 for Class 2. N/A indicates that a category has not been assigned.
ITEM:	The ASME Section XI Item Numbers are listed in Table IWB-2500-1 for Class 1 and Table IWC-2500-1 for Class 2. Items that start with AHE are associated with Augmented High Energy piping systems. The RCP Flywheels are marked as N/A in ASME and are identified as N/A (RCP FLYWHEEL - R.G. 1.14) in Appendix A.
Required:	The number of examinations scheduled in the ISI Program Summary Manual to be completed during the second period of the second interval. ( ) identifies augmented examinations for IEB 79-13 and SER 83-07.
Complete:	The number of examinations completed and credited during the first outage of the second period or since the last summary report. ( ) identifies augmented examinations for IEB 79-13 and SER 83-07.
(continued):	Indicates that the ASME Item is continued from a previous page.
Summary No.:	The first number identifies the unit. The second set of numbers identifies the zone. The third, and in some cases fourth set of numbers, identify the item examined as referenced in the ISI Program zone drawings.
Component ID:	Item examined as referenced in the ISI Program zone drawings.
Component Description:	Describes the item examined.
System:	Identifies the system designation the component is a part of.
System Description:	Describes the system or portion of the system that contains component examined.
Workscope:	Identifies the basis for the examination. ISI indicates a scheduled exam required by the ISI Program. AUG indicates Augmented High Energy or special exams to satisfy other commitments or concerns. PSE indicates an exam required as part of a repair, replacement, or modification.
Report No.:	The two letters designate the method, the next two numbers designate the unit number, and the next set of numbers identifies the sequential number of the report.
Work Request No.:	Identifies associated work document numbers
Examination Remarks:	Provides additional information applicable to the specific examination report. Re-exam or replacement remarks indicate acceptable examination results.

Appendix A

Definition of Terms

Aux:	Auxiliary
AF:	Auxiliary Feedwater
CEDM:	Control Element Drive Mechanism
CH:	Chemical and Volume Control
Cir:	Circumferential
Col	Column
Cont:	Containment
CS:	Containment Spray
Dwncmr:	Downcomer
FW:	Feedwater
HPSI:	High Pressure Safety Injection
ICI:	In Core Instrumentation
IEB:	Inspection and Enforcement Bulletin
ISI:	Inservice Inspection
LPSI:	Low Pressure Safety Injection
MT:	Magnetic Particle Test
PSE:	Preservice Examination
PSV:	Pressurizer Safety Valve
PZR:	Pressurizer
RC:	Reactor Coolant
RCP:	Reactor Coolant Pump
RCS:	Reactor Coolant System
RV:	Reactor Vessel
Sch:	Schedule of pipe
SG:	Steam Generator
SI:	Safety Injection
UT:	Ultrasonic Testing

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 ***CATEGORY: B-A*** ***ITEM: B1.40*** ***Required: 33%*** ***Complete: 0%***

Summary No.	Component ID	Component Description	System	System Description
2-002-001	2-1	Reactor Vessel Head-to-Flange Weld	RC	Closure Head

Workscope	Report No.	Examination Remarks
ISI	UT-02-076	Examined 120° to 240° (15' to 32')

CLASS: 1 ***CATEGORY: B-B*** ***ITEM: B2.11*** ***Required: 66%*** ***Complete: 66%***

Summary No.	Component ID	Component Description	System	System Description
2-005-008	5-8	Shell to Top Head	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-025	Examined 0° to 240° (0' to 19' 5")

CLASS: 1 ***CATEGORY: BB*** ***ITEM: B2.12*** ***Required: 100%**** ***Complete: 100%****

Summary No.	Component ID	Component Description	System	System Description
2-005-006	5-6	PZR Upper Shell Long Seam	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-030	*1' of long seam
ISI	UT-02-032	*1' of long seam
ISI	UT-02-035	*1' of long seam
ISI	UT-02-038	*1' of long seam

CLASS: 1 ***CATEGORY: BD*** ***ITEM: B3.110*** ***Required: 2*** ***Complete: 2***

Summary No.	Component ID	Component Description	System	System Description
2-005-010	5-10	Nozzle to Vessel Weld	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-027	Limited UT examinations, see Appendix B
ISI	UT-02-033	
ISI	UT-02-036	
ISI	UT-02-039	

Summary No.	Component ID	Component Description	System	System Description
2-005-013	5-13	Nozzle to Vessel Weld	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-031	Limited UT examinations, see Appendix B
ISI	UT-02-034	
ISI	UT-02-037	
ISI	UT-02-040	

CLASS: 1 ***CATEGORY: BD*** ***ITEM: B3.120*** ***Required: 2*** ***Complete: 2***

Summary No.	Component ID	Component Description	System	System Description
2-005-010	5-10	Nozzle Inner Radius	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-067	Inner radius

Summary No.	Component ID	Component Description	System	System Description
2-005-013	5-13	Nozzle Inner Radius	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	UT-02-066	Inner radius

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 ***CATEGORY: BE*** ***ITEM: B4.12*** ***Required: 8*** ***Complete: 8***

Summary No.	Component ID	Component Description	System	System Description
2-002-CEDM-Nozzles	2-CEDM-Nozzles	CEDM Nozzles	RC	Closure Head

Workscope	Report No.	Examination Remarks
ISI	VT-02-412	All nozzles examined, credit for 8

CLASS: 1 ***CATEGORY: BE*** ***ITEM: B4.13*** ***Required: 5*** ***Complete: 5***

Summary No.	Component ID	Component Description	System	System Description
2-001-ICI	2-1-INST. Nozzles	ICI Nozzle Partial Penetration Welds	RC	Reactor Vessel

Workscope	Report No.	Examination Remarks
ISI	VT-02-410	Reject - Acceptable per CRAI 2334858, no change. All nozzles examined, credit for 5

CLASS: 1 ***CATEGORY: BE*** ***ITEM: B4.20*** ***Required: 12*** ***Complete: 12***

Summary No.	Component ID	Component Description	System	System Description
2-005-HEATERS	2-5-PZR-Heaters	Pressurizer Heaters	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	VT-02-413	Includes supplemental examination of all heaters (CE Info Bulletin 89-06)

CLASS: 1 ***CATEGORY: BF*** ***ITEM: B5.40*** ***Required: 2*** ***Complete: 2***

Summary No.	Component ID	Component Description	System	System Description
2-029-005-033	5-33	Safe End to PZR Nozzle	RC	Combined Pressurizer Spray

Workscope	Report No.	Examination Remarks
ISI	PT-02-030	
ISI	RT-02-001	

Summary No.	Component ID	Component Description	System	System Description
2-031-005-031	5-31	Safety Nozzle-to-Safe End Weld @ 270°	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
ISI	PT-02-028	
ISI	UT-02-061	93% coverage acceptable per code case N-490
ISI	UT-02-062	
ISI	UT-02-063	
ISI	UT-02-064	93% coverage acceptable per code case N-490

CLASS: 1 ***CATEGORY: B-G-1*** ***ITEM: B6.10*** ***Required: 18*** ***Complete: 0***

Summary No.	Component ID	Component Description	System	System Description
2-002-Nuts	Nuts	Reactor Vessel Closure Head Nuts	RC	Closure Head

Workscope	Report No.	Examination Remarks
ISI	MT-02-156	Nuts 18-36, Nut # 18 credited to period 1

CLASS: 1 ***CATEGORY: B-G-1*** ***ITEM: B6.30*** ***Required: 18*** ***Complete: 18***

Summary No.	Component ID	Component Description	System	System Description
2-002-Studs	Studs	Reactor Vessel Closure Studs	RC	Closure Head

Workscope	Report No.	Examination Remarks
ISI	MT-02-154	Studs 18-28, Stud # 18 credited to period 1
ISI	MT-02-155	Studs 29-36
ISI	UT-02-083	Studs 18-36, Stud # 18 credited to period 1

CLASS: 1 ***CATEGORY: B-G-1*** ***ITEM: B6.180*** ***Required: 20*** ***Complete: 0***

Summary No.	Component ID	Component Description	System	System Description
2-016-Flange Studs	Flange Studs	RCP 1A Flange Studs	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
AUG	VT-02-357	16 Studs. Supplemental examination for IEIN 80-27 and IEB 82-02

Appendix 1
Inservice Inspection Summary Report
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CLASS: 1 CATEGORY: B-G-1 ITEM: B6.180 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-017-Flange Studs	Flange Studs	RCP 1B Flange Studs	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
AUG	VT-02-361	16 Studs. Supplemental examination for IEIN 80-27 and IEB 82-02

Summary No.	Component ID	Component Description	System	System Description
2-018-Flange Studs	Flange Studs	RCP 2A Flange Studs	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
AUG	VT-02-364	16 Studs. Supplemental examination for IEIN 80-27 and IEB 82-02

Summary No.	Component ID	Component Description	System	System Description
2-019-Flange Studs	Flange Studs	RCP 2B Flange Studs	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
AUG	MT-02-022	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-023	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-024	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-025	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-026	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-027	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-028	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-029	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-030	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-031	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-032	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-033	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-034	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-035	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-036	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	MT-02-037	1 of 16 Studs. Supplemental examination for IEB 82-02
AUG	VT-02-403	16 Studs. Supplemental examination for IEIN 80-27 and IEB 82-02

CLASS: 1 CATEGORY: B-G-1 ITEM: B6.190 Required: 100% Complete: 100%

Summary No.	Component ID	Component Description	System	System Description
2-019-Flange	Flange	RCP 2B Flange Surface	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-414	

CLASS: 1 CATEGORY: B-G-1 ITEM: B6.200 Required: 20 Complete: 20

Summary No.	Component ID	Component Description	System	System Description
2-016-Clamping Ring	Clamping Ring	RCP 1A Clamping Ring	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-359	

Summary No.	Component ID	Component Description	System	System Description
2-016-Flange Nuts	Flange Nuts	RCP 1A Flange Nuts	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-358	16 Nuts

Summary No.	Component ID	Component Description	System	System Description
2-017-Clamping Ring	Clamping Ring	RCP 1B Clamping Ring	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-363	

CLASS: 1 CATEGORY: B-G-1 ITEM: B6.200 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-017-Flange Nuts	Flange Nuts	RCP 1B Flange Nuts	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-360	16 Nuts

Summary No.	Component ID	Component Description	System	System Description
2-018-Clamping Ring	Clamping Ring	RCP 2A Clamping Ring	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-365	

Summary No.	Component ID	Component Description	System	System Description
2-018-Flange Nuts	Flange Nuts	RCP 2A Flange Nuts	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-362	16 Nuts

Summary No.	Component ID	Component Description	System	System Description
2-019-Clamping Ring	Clamping Ring	RCP 2B Clamping Ring	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-245	
ISI	VT-02-367	

Summary No.	Component ID	Component Description	System	System Description
2-019-Flange Nuts	Flange Nuts	RCP 2B Flange Nuts	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-366	16 Nuts

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.20 Required: 20 Complete: 20

Summary No.	Component ID	Component Description	System	System Description
2-005-Nuts	Nuts	PZR Manway Nuts	RC	Pressurizer-Manway

Workscope	Report No.	Examination Remarks
ISI	VT-02-282	20 Nuts, includes IEB supplemental examinations
AUG	01-2051	VT 20 Nuts

Summary No.	Component ID	Component Description	System	System Description
2-005-Studs	Studs	PZR Manway Studs	RC	Pressurizer-Manway

Workscope	Report No.	Examination Remarks
AUG	MT-02-148	20 Studs, IEB 82-02 supplemental examinations. 1 direction
ISI	VT-02-262	20 Studs, includes IEB supplemental examinations
AUG	01-2051	VT 20 Studs

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.30 Required: 80 Complete: 80

Summary No.	Component ID	Component Description	System	System Description
2-003-CL-Nuts	CL Nuts	SG1 Cold Leg Manway Nuts	SG	SG 1-Manway

Workscope	Report No.	Examination Remarks
ISI	VT-02-278	20 Nuts, includes IEB 82-02 supplemental examinations

Appendix 1
Inservice Inspection Summary Report
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CLASS: 1 CATEGORY: B-G-2 ITEM: B7.30 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-003-CL-Studs	CL Studs	SG1 Cold Leg Manway Studs	RC	SG #1-Manway

Workscope	Report No.	Examination Remarks
AUG	MT-02-149	20 Studs, IEB 82-02 supplemental examinations. 1 direction
ISI	VT-02-263	20 Studs, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-003-HL-Nuts	HL Nuts	SG1 Hot Leg Manway Nuts	RC	SG #1-Manway

Workscope	Report No.	Examination Remarks
ISI	VT-02-279	20 Nuts, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-003-HL-Studs	HL Studs	SG1 Hot Leg Manway Studs	RC	SG #1-Manway

Workscope	Report No.	Examination Remarks
AUG	MT-02-150	20 Studs, IEB 82-02 supplemental examinations. 1 direction
ISI	VT-02-266	20 Studs, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-004-CL-Nuts	CL Nuts	SG2 Cold Leg Manway Nuts	RC	SG #2-Manway

Workscope	Report No.	Examination Remarks
ISI	VT-02-280	20 Nuts, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-004-CL-Studs	CL Studs	SG2 Cold Leg Manway Studs	RC	SG #2-Manway

Workscope	Report No.	Examination Remarks
AUG	MT-02-151	20 Studs, IEB 82-02 supplemental examinations. 1 direction
ISI	VT-02-264	20 Studs, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-004-HL-Nuts	HL Nuts	SG2 Hot Leg Manway Nuts	RC	SG #2-Manway

Workscope	Report No.	Examination Remarks
ISI	VT-02-281	20 Nuts, includes IEB 82-02 supplemental examinations

Summary No.	Component ID	Component Description	System	System Description
2-004-HL-Studs	HL Studs	SG2 Hot Leg Manway Studs	RC	SG #2-Manway

Workscope	Report No.	Examination Remarks
AUG	MT-02-152	20 Studs, IEB 82-02 supplemental examinations. 1 direction
ISI	VT-02-265	20 Studs, includes IEB 82-02 supplemental examinations

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 ***CATEGORY: B-G-2*** ***ITEM: B7.50*** ***Required: 1*** ***Complete: 1***

Summary No.	Component ID	Component Description	System	System Description
2-031-PSV200	PSV200	Flange Studs and Nuts	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
AUG	MT-02-038	1 of 16 Nuts * Includes IEB 82-02 supplemental examination of all items
AUG	MT-02-039	1 of 16 Nuts
AUG	MT-02-040	1 of 16 Nuts
AUG	MT-02-041	1 of 16 Nuts
AUG	MT-02-042	1 of 16 Nuts
AUG	MT-02-043	1 of 16 Nuts
AUG	MT-02-044	1 of 16 Nuts
AUG	MT-02-045	1 of 16 Nuts
AUG	MT-02-046	1 of 16 Nuts
AUG	MT-02-047	1 of 16 Nuts
AUG	MT-02-048	1 of 16 Nuts
AUG	MT-02-049	1 of 16 Nuts
AUG	MT-02-050	1 of 16 Nuts
AUG	MT-02-051	1 of 16 Nuts
AUG	MT-02-052	1 of 16 Nuts
AUG	MT-02-053	1 of 16 Nuts
AUG	MT-02-054	1 of 8 Studs
AUG	MT-02-055	1 of 8 Studs
AUG	MT-02-056	1 of 8 Studs
AUG	MT-02-057	1 of 8 Studs
AUG	MT-02-058	1 of 8 Studs
AUG	MT-02-059	1 of 8 Studs
AUG	MT-02-060	1 of 8 Studs
AUG	MT-02-061	1 of 8 Studs
AUG	VT-02-108	1 of 16 Nuts
AUG	VT-02-109	1 of 16 Nuts
AUG	VT-02-110	1 of 16 Nuts
AUG	VT-02-111	1 of 16 Nuts
AUG	VT-02-112	1 of 16 Nuts
AUG	VT-02-113	1 of 16 Nuts
AUG	VT-02-114	1 of 16 Nuts
AUG	VT-02-115	1 of 16 Nuts
AUG	VT-02-116	1 of 16 Nuts
AUG	VT-02-117	1 of 16 Nuts
AUG	VT-02-118	1 of 16 Nuts
AUG	VT-02-119	1 of 16 Nuts
AUG	VT-02-120	1 of 16 Nuts
AUG	VT-02-121	1 of 16 Nuts
AUG	VT-02-122	1 of 16 Nuts
AUG	VT-02-123	1 of 16 Nuts
AUG	VT-02-124	1 of 8 Studs
AUG	VT-02-125	1 of 8 Studs
AUG	VT-02-126	1 of 8 Studs
AUG	VT-02-127	1 of 8 Studs
AUG	VT-02-128	1 of 8 Studs
AUG	VT-02-129	1 of 8 Studs
AUG	VT-02-130	1 of 8 Studs
AUG	VT-02-131	1 of 8 Studs

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.50 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-031-PSV201	PSV201	Flange Studs and Nuts	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
AUG	MT-02-062	1 of 16 Nuts * Includes IEB 82-02 supplemental examination of all items
AUG	MT-02-063	1 of 16 Nuts
AUG	MT-02-064	1 of 16 Nuts
AUG	MT-02-065	1 of 16 Nuts
AUG	MT-02-066	1 of 16 Nuts
AUG	MT-02-067	1 of 16 Nuts
AUG	MT-02-068	1 of 16 Nuts
AUG	MT-02-069	1 of 16 Nuts
AUG	MT-02-070	1 of 16 Nuts
AUG	MT-02-071	1 of 16 Nuts
AUG	MT-02-072	1 of 16 Nuts
AUG	MT-02-073	1 of 16 Nuts
AUG	MT-02-074	1 of 16 Nuts
AUG	MT-02-075	1 of 16 Nuts
AUG	MT-02-076	1 of 16 Nuts
AUG	MT-02-077	1 of 16 Nuts
AUG	MT-02-078	1 of 8 Studs
AUG	MT-02-079	1 of 8 Studs
AUG	MT-02-080	1 of 8 Studs
AUG	MT-02-081	1 of 8 Studs
AUG	MT-02-082	1 of 8 Studs
AUG	MT-02-083	1 of 8 Studs
AUG	MT-02-084	1 of 8 Studs
AUG	MT-02-085	1 of 8 Studs
AUG	VT-02-132	1 of 16 Nuts
AUG	VT-02-133	1 of 16 Nuts
AUG	VT-02-134	1 of 16 Nuts
AUG	VT-02-135	1 of 16 Nuts
AUG	VT-02-136	1 of 16 Nuts
AUG	VT-02-137	1 of 16 Nuts
AUG	VT-02-138	1 of 16 Nuts
AUG	VT-02-139	1 of 16 Nuts
AUG	VT-02-140	1 of 16 Nuts
AUG	VT-02-141	1 of 16 Nuts
AUG	VT-02-142	1 of 16 Nuts
AUG	VT-02-143	1 of 16 Nuts
AUG	VT-02-144	1 of 16 Nuts
AUG	VT-02-145	1 of 16 Nuts
AUG	VT-02-146	1 of 16 Nuts
AUG	VT-02-147	1 of 16 Nuts
AUG	VT-02-148	1 of 8 Studs
AUG	VT-02-149	1 of 8 Studs
AUG	VT-02-150	1 of 8 Studs
AUG	VT-02-151	1 of 8 Studs
AUG	VT-02-152	1 of 8 Studs
AUG	VT-02-153	1 of 8 Studs
AUG	VT-02-154	1 of 8 Studs
AUG	VT-02-155	1 of 8 Studs

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.50 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-031-PSV202	PSV202	Flange Studs and Nuts	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
AUG	MT-02-086	1 of 16 Nuts * Includes IEB 82-02 supplemental examination of all items
AUG	MT-02-087	1 of 16 Nuts
AUG	MT-02-088	1 of 16 Nuts
AUG	MT-02-089	1 of 16 Nuts
AUG	MT-02-090	1 of 16 Nuts
AUG	MT-02-091	1 of 16 Nuts
AUG	MT-02-092	1 of 16 Nuts
AUG	MT-02-093	1 of 16 Nuts
AUG	MT-02-094	1 of 16 Nuts
AUG	MT-02-095	1 of 16 Nuts
AUG	MT-02-096	1 of 16 Nuts
AUG	MT-02-097	1 of 16 Nuts
AUG	MT-02-098	1 of 16 Nuts
AUG	MT-02-099	1 of 16 Nuts
AUG	MT-02-100	1 of 16 Nuts
AUG	MT-02-101	1 of 16 Nuts
AUG	MT-02-102	1 of 8 Studs
AUG	MT-02-103	1 of 8 Studs
AUG	MT-02-104	1 of 8 Studs
AUG	MT-02-105	1 of 8 Studs
AUG	MT-02-106	1 of 8 Studs
AUG	MT-02-107	1 of 8 Studs
AUG	MT-02-108	1 of 8 Studs
AUG	MT-02-109	1 of 8 Studs
ISI	VT-02-156	1 of 16 Nuts
ISI	VT-02-157	1 of 16 Nuts
ISI	VT-02-158	1 of 16 Nuts
ISI	VT-02-159	1 of 16 Nuts
ISI	VT-02-160	1 of 16 Nuts
ISI	VT-02-161	1 of 16 Nuts
ISI	VT-02-162	1 of 16 Nuts
ISI	VT-02-163	1 of 16 Nuts
ISI	VT-02-164	1 of 16 Nuts
ISI	VT-02-165	1 of 16 Nuts
ISI	VT-02-166	1 of 16 Nuts
ISI	VT-02-167	1 of 16 Nuts
ISI	VT-02-168	1 of 16 Nuts
ISI	VT-02-169	1 of 16 Nuts
ISI	VT-02-170	1 of 16 Nuts
ISI	VT-02-171	1 of 16 Nuts
ISI	VT-02-172	1 of 8 Studs
ISI	VT-02-173	1 of 8 Studs
ISI	VT-02-174	1 of 8 Studs
ISI	VT-02-175	1 of 8 Studs
ISI	VT-02-176	1 of 8 Studs
ISI	VT-02-177	1 of 8 Studs
ISI	VT-02-178	1 of 8 Studs
ISI	VT-02-179	1 of 8 Studs

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.50 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-031-PSV203	PSV203	Flange Studs and Nuts	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
AUG	MT-02-110	1 of 16 Nuts * Includes IEB 82-02 supplemental examination of all items
AUG	MT-02-111	1 of 16 Nuts
AUG	MT-02-112	1 of 16 Nuts
AUG	MT-02-113	1 of 16 Nuts
AUG	MT-02-114	1 of 16 Nuts
AUG	MT-02-115	1 of 16 Nuts
AUG	MT-02-116	1 of 16 Nuts
AUG	MT-02-117	1 of 16 Nuts
AUG	MT-02-118	1 of 16 Nuts
AUG	MT-02-119	1 of 16 Nuts
AUG	MT-02-120	1 of 16 Nuts
AUG	MT-02-121	1 of 16 Nuts
AUG	MT-02-122	1 of 16 Nuts
AUG	MT-02-123	1 of 16 Nuts
AUG	MT-02-124	1 of 16 Nuts
AUG	MT-02-125	1 of 16 Nuts
AUG	MT-02-126	1 of 8 Studs
AUG	MT-02-127	1 of 8 Studs
AUG	MT-02-128	1 of 8 Studs
AUG	MT-02-129	1 of 8 Studs
AUG	MT-02-130	1 of 8 Studs
AUG	MT-02-131	1 of 8 Studs
AUG	MT-02-132	1 of 8 Studs
AUG	MT-02-133	1 of 8 Studs
AUG	VT-02-180	1 of 16 Nuts
AUG	VT-02-181	1 of 16 Nuts
AUG	VT-02-182	1 of 16 Nuts
AUG	VT-02-183	1 of 16 Nuts
AUG	VT-02-184	1 of 16 Nuts
AUG	VT-02-185	1 of 16 Nuts
AUG	VT-02-186	1 of 16 Nuts
AUG	VT-02-187	1 of 16 Nuts
AUG	VT-02-188	1 of 16 Nuts
AUG	VT-02-189	1 of 16 Nuts
AUG	VT-02-190	1 of 16 Nuts
AUG	VT-02-191	1 of 16 Nuts
AUG	VT-02-192	1 of 16 Nuts
AUG	VT-02-193	1 of 16 Nuts
AUG	VT-02-194	1 of 16 Nuts
AUG	VT-02-195	1 of 16 Nuts
AUG	VT-02-196	1 of 8 Studs
AUG	VT-02-197	1 of 8 Studs
AUG	VT-02-198	1 of 8 Studs
AUG	VT-02-199	1 of 8 Studs
AUG	VT-02-200	1 of 8 Studs
AUG	VT-02-201	1 of 8 Studs
AUG	VT-02-202	1 of 8 Studs
AUG	VT-02-203	1 of 8 Studs

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.60 Required: 20 Complete: 5

Summary No.	Component ID	Component Description	System	System Description
2-017-Seal Housing Studs	Studs	RCP 1B Seal Cover Bolting	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-257	16 Studs only

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.60 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-018-Seal Housing Studs	Studs	RCP 2A Seal Cover Bolting	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-215	1 of 16 Studs only
ISI	VT-02-216	1 of 16 Studs only
ISI	VT-02-217	1 of 16 Studs only
ISI	VT-02-218	1 of 16 Studs only
ISI	VT-02-219	1 of 16 Studs only
ISI	VT-02-220	1 of 16 Studs only
ISI	VT-02-221	1 of 16 Studs only
ISI	VT-02-222	1 of 16 Studs only
ISI	VT-02-223	1 of 16 Studs only
ISI	VT-02-224	1 of 16 Studs only
ISI	VT-02-225	1 of 16 Studs only
ISI	VT-02-226	1 of 16 Studs only
ISI	VT-02-227	1 of 16 Studs only
ISI	VT-02-228	1 of 16 Studs only
ISI	VT-02-229	1 of 16 Studs only
ISI	VT-02-230	1 of 16 Studs only

Summary No.	Component ID	Component Description	System	System Description
2-019-Seal Housing Studs	Studs	RCP 2B Seal Cover Bolting	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-258	16 Studs and Nuts
ISI	02-2001	VT 16 Studs

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.70 Required: 18 Complete: 17

Summary No.	Component ID	Component Description	System	System Description
2-022-V652	UV-652	Valve Bolts, Studs, and Nuts	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-058	

Summary No.	Component ID	Component Description	System	System Description
2-023-V235	V-235	Valve Bolts, Studs, and Nuts	SI	SI 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-237	

Summary No.	Component ID	Component Description	System	System Description
2-023-UV634	UV-634	Valve Bolts, Studs, and Nuts	SI	SI 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-236	

Summary No.	Component ID	Component Description	System	System Description
2-024-V245	V-245	Valve Bolts, Studs, and Nuts	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-270	

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CLASS: 1 CATEGORY: B-G-2 ITEM: B7.70 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-024-V644	UV644	Valve Bolts, Studs, and Nuts	SI	SI 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-242			

Summary No.	Component ID	Component Description	System	System Description
2-025-V217	V-217	Valve Bolts, Studs, and Nuts	SI	SI 2A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-260			

Summary No.	Component ID	Component Description	System	System Description
2-026-V541	V-541	Valve Bolts, Studs, and Nuts	SI	SI 2B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-320			

Summary No.	Component ID	Component Description	System	System Description
2-026-V624	UV-624	Valve Bolts, Studs, and Nuts	SI	SI 2B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-321			

Summary No.	Component ID	Component Description	System	System Description
2-027-V100E	PV-100E	Valve Bolts, Studs, and Nuts	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-371			

Summary No.	Component ID	Component Description	System	System Description
2-028-V100F	PV-100F	Valve Bolts, Studs, and Nuts	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-368			

Summary No.	Component ID	Component Description	System	System Description
2-033-V235	V-235	Valve Bolts, Studs, and Nuts	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-312			

Summary No.	Component ID	Component Description	System	System Description
2-033-V335	V-335	Valve Bolts, Studs, and Nuts	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-311			

Summary No.	Component ID	Component Description	System	System Description
2-034-V233	V-233	Valve Bolts, Studs, and Nuts	RC	Drain Line 2A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-322			

Summary No.	Component ID	Component Description	System	System Description
2-034-V333	V-333	Valve Bolts, Studs, and Nuts	RC	Drain Line 2A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-323			

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.70 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-039-V522	V-522	Valve Bolts, Studs, and Nuts	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-314	

Summary No.	Component ID	Component Description	System	System Description
2-039-V957	V-957	Valve Bolts, Studs, and Nuts	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-313	

Summary No.	Component ID	Component Description	System	System Description
2-040-V532	V-532	Valve Bolts, Studs, and Nuts	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-324	

CLASS: 1 CATEGORY: B-H ITEM: B8.20 Required: 0* Complete: 0*

Summary No.	Component ID	Component Description	System	System Description
2-005-001	5-1	Support Skirt	RC	Pressurizer

Workscope	Report No.	Examination Remarks
ISI	MT-02-018	*Reexamine area at 19' to 26'.
ISI	UT-02-056	*Reexamine indications at 19' to 26'. Limited UT examinations see Appendix B
ISI	UT-02-057	*Reexamine indications at 19' to 26'. Reject – Acceptable per MNCR 93-RC-2027
ISI	UT-02-058	*Reexamine indications at 19' to 26'.
ISI	UT-02-059	*Reexamine indications at 19' to 26'.

CLASS: 1 CATEGORY: B-J ITEM: B9.11 & B9.12 Required: 23 Complete: 17

Summary No.	Component ID	Component Description	System	System Description
2-006-016-001	16-1	Outlet Nozzle to Extension Piece Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-019	No credit for surface exam on long seam
ISI	UT-02-120	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-006-017-001	17-1	Outlet Nozzle to Extension Piece Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-020	No credit for surface exam on long seam
ISI	UT-02-116	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-006-018-001	18-1	Outlet Nozzle to Extension Piece Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-007	Includes long seam
ISI	UT-02-121	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-006-019-001	19-1	Outlet Nozzle to Extension Piece Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-021	No credit for surface exam on long seam
ISI	UT-02-079	Includes long seam

Appendix 1
Inservice Inspection Summary Report
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CLASS: 1 ***CATEGORY: B-J*** ***ITEM: B9.11 & B9.12 (continued)***

Summary No.	Component ID	Component Description	System	System Description
2-021-014	21-14	16" Sch 160 Elbow-to-Pipe	RC	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	PT-02-059	
ISI	UT-02-125	

Summary No.	Component ID	Component Description	System	System Description
2-021-015	21-15	16" Sch 160 Pipe-to-Elbow	RC	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	PT-02-060	
ISI	UT-02-126	

Summary No.	Component ID	Component Description	System	System Description
2-022-001	22-1	16" Pipe to Pipe	RC	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	PT-02-016	
ISI	UT-02-007	

Summary No.	Component ID	Component Description	System	System Description
2-022-007-009	7-9	Nozzle-to-16" Sch Pipe	RC	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	PT-02-017	
ISI	UT-02-010	
ISI	UT-02-011	
ISI	UT-02-026	

Summary No.	Component ID	Component Description	System	System Description
2-022-017	22-17	16" Sch 160 Pipe-to-Elbow	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	PT-02-041	
ISI	UT-02-052	

Summary No.	Component ID	Component Description	System	System Description
2-023-006	23-6	Pipe to Valve	SI	SI 1A

Workscope	Report No.	Examination Remarks
AUG	PT-02-064	
AUG	UT-02-090	Limited UT examinations, see Appendix B
AUG	UT-02-091	

Summary No.	Component ID	Component Description	System	System Description
2-024-006	24-6	Pipe to Valve	SI	SI 1B

Workscope	Report No.	Examination Remarks
AUG	PT-02-004	
AUG	UT-02-001	Limited UT examinations, see Appendix B
AUG	UT-02-003	

Summary No.	Component ID	Component Description	System	System Description
2-024-014	24-14	Valve to Pipe	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-037	
ISI	UT-02-045	Limited UT examinations, see Appendix B
ISI	UT-02-050	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 1 ***CATEGORY: B-J*** ***ITEM: B9.11 & B9.12 (continued)***

Summary No.	Component ID	Component Description	System	System Description
2-024-016	24-16	Pipe to Valve	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-038	
ISI	UT-02-046	Limited UT examinations, see Appendix B
ISI	UT-02-048	

Summary No.	Component ID	Component Description	System	System Description
2-024-019	24-19	Valve to Pipe	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-034	
ISI	UT-02-047	Limited UT examinations, see Appendix B
ISI	UT-02-051	

Summary No.	Component ID	Component Description	System	System Description
2-025-001	25-1	14" Sch 160 Elbow-to-RC Loop 2A Safe End	SI	SI 2A

Workscope	Report No.	Examination Remarks
ISI	PT-02-058	
ISI	UT-02-109	

Summary No.	Component ID	Component Description	System	System Description
2-025-004	25-4	Valve to Pipe	SI	SI 2A

Workscope	Report No.	Examination Remarks
ISI	PT-02-072	
ISI	UT-02-110	Limited UT examinations, see Appendix B
ISI	UT-02-113	

Summary No.	Component ID	Component Description	System	System Description
2-025-006	25-6	Pipe to Valve	SI	SI 2A

Workscope	Report No.	Examination Remarks
ISI	PT-02-052	
ISI	UT-02-111	Limited UT examinations, see Appendix B
ISI	UT-02-114	

Summary No.	Component ID	Component Description	System	System Description
2-025-013-010	13-10	SI Nozzle-to-Safe End Weld	SI	SI 2A

Workscope	Report No.	Examination Remarks
ISI	UT-02-112	No credit, surface exam required
ISI	UT-02-119	
ISI	UT-02-122	

Summary No.	Component ID	Component Description	System	System Description
2-026-006	26-6	Pipe to Valve	SI	SI 2B

Workscope	Report No.	Examination Remarks
AUG	PT-02-003	
AUG	UT-02-002	Limited UT examinations, see Appendix B
AUG	UT-02-004	

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Inservice Inspection Summary Report
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CLASS: 1 ***CATEGORY: B-J*** ***ITEM: B9.11 & B9.12 (continued)***

Summary No.	Component ID	Component Description	System	System Description
2-026-017	26-17	Valve to Pipe	SI	SI 2B

Workscope	Report No.	Examination Remarks
ISI	PT-02-035	
ISI	UT-02-044	Limited UT examinations, see Appendix B
ISI	UT-02-049	

Summary No.	Component ID	Component Description	System	System Description
2-029-001	29-1	4" Sch 160 Pipe-to Pressurizer Nozzle	RC	Combined Pressurizer Spray

Workscope	Report No.	Examination Remarks
ISI	PT-02-026	
ISI	UT-02-068	supplemental exam
ISI	UT-02-124	

Summary No.	Component ID	Component Description	System	System Description
2-031-009	31-9	Pressurizer Safe End to 6" Sch 160 Elbow	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
ISI	PT-02-029	
ISI	UT-02-028	

Summary No.	Component ID	Component Description	System	System Description
2-031-010	31-10	6" Sch 160 Elbow-to-Pipe	RC	Pressurizer Safeties

Workscope	Report No.	Examination Remarks
ISI	PT-02-027	
ISI	UT-02-029	

Summary No.	Component ID	Component Description	System	System Description
2-036-075	36-75	16" Sch 160 Circumferential Head Weld	RC	Letdown Line

Workscope	Report No.	Examination Remarks
ISI	PT-02-070	
ISI	UT-02-106	

CLASS: 1 ***CATEGORY: B-J*** ***ITEM: B9.21*** ***Required: 31*** ***Complete: 29***

Summary No.	Component ID	Component Description	System	System Description
2-027-008	27-8	Pipe to Valve	RC	Pressurizer Spray 1A

Workscope	Report No.	Examination Remarks
ISI	PT-02-007	

Summary No.	Component ID	Component Description	System	System Description
2-027-010	27-10	Pipe to Elbow	RC	Pressurizer Spray 1A

Workscope	Report No.	Examination Remarks
ISI	PT-02-006	

Summary No.	Component ID	Component Description	System	System Description
2-027-016	27-16	Valve to Elbow	RC	Pressurizer Spray 1A

Workscope	Report No.	Examination Remarks
ISI	PT-02-008	

Summary No.	Component ID	Component Description	System	System Description
2-028-009	28-9	Pipe to Valve	RC	Pressurizer Spray 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-009	

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CLASS: 1 CATEGORY: B-J ITEM: B9.21 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-028-011	28-11	Valve to Pipe	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	PT-02-010			

Summary No.	Component ID	Component Description	System	System Description
2-028-011-011	11-11	Spray Nozzle-to-Safe End Weld	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	PT-02-040			

Summary No.	Component ID	Component Description	System	System Description
2-028-020	28-20	Valve to Pipe	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	PT-02-011			

Summary No.	Component ID	Component Description	System	System Description
2-030-005	30-5	2" Sch 160 Pipe-to-Tee	CH	AUX. Pressurizer Spray
Workscope	Report No.	Examination Remarks		
ISI	PT-02-074			

Summary No.	Component ID	Component Description	System	System Description
2-030-006	30-6	2" Sch 160 Tee-to-Pipe	CH	AUX. Pressurizer Spray
Workscope	Report No.	Examination Remarks		
ISI	PT-02-073			

Summary No.	Component ID	Component Description	System	System Description
2-033-001	33-1	Safe End to Pipe	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	PT-02-048			

Summary No.	Component ID	Component Description	System	System Description
2-033-005	33-5	Elbow-to-2" Sch160 Pipe	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	PT-02-049			

Summary No.	Component ID	Component Description	System	System Description
2-033-010-018	10-18	Drain Nozzle-to-Safe End Weld Extension Piece	RC	Drain Line 1B Weld
Workscope	Report No.	Examination Remarks		
ISI	PT-02-051			

Summary No.	Component ID	Component Description	System	System Description
2-036-025	36-25	2" Sch 160 Pipe-to-Elbow	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-065			

Summary No.	Component ID	Component Description	System	System Description
2-036-026	36-26	2" Sch 160 Elbow-to-Pipe	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-066			

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CLASS: 1 CATEGORY: B-J ITEM: B9.21 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-036-043	36-43	Pipe to Elbow	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-067			

Summary No.	Component ID	Component Description	System	System Description
2-036-044	36-44	2" Sch 160 Elbow-to-Pipe	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-068			

Summary No.	Component ID	Component Description	System	System Description
2-036-045	36-45	2" Sch 160 Pipe-to-Elbow	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-069			

Summary No.	Component ID	Component Description	System	System Description
2-036-080	36-80	2" Sch 160 Pipe-to-Elbow	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-071			

Summary No.	Component ID	Component Description	System	System Description
2-037-029	37-29	3" Sch 160 Elbow-to-Pipe	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-053			

Summary No.	Component ID	Component Description	System	System Description
2-037-030	37-30	3" Sch 160 Pipe-to-Elbow	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-054			

Summary No.	Component ID	Component Description	System	System Description
2-037-032	37-32	3" Sch 160 Pipe-to-Concentric Reducer	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-055			

Summary No.	Component ID	Component Description	System	System Description
2-037-033	37-33	2" Sch 160 Concentric Reducer-to-Pipe	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-056			

Summary No.	Component ID	Component Description	System	System Description
2-037-034	37-34	2" Sch 160 Pipe-to-Safe End Loop 2A	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	PT-02-057			

Summary No.	Component ID	Component Description	System	System Description
2-038-001	38-1	Sweepolet-to-Pipe	RC	Drain Line Loop 1
Workscope	Report No.	Examination Remarks		
ISI	PT-02-062			

CLASS: 1 CATEGORY: B-J ITEM: B9.21 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-039-012	39-12	3" Sch 160 Pipe-to-Elbow	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	PT-02-013	
ISI	UT-02-022	

Summary No.	Component ID	Component Description	System	System Description
2-039-013	39-13	3" Sch 160 Elbow-to-Pipe	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	PT-02-014	
ISI	UT-02-021	

Summary No.	Component ID	Component Description	System	System Description
2-039-024	39-24	3" Sch 160 Pipe-to-Valve V-522	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	PT-02-019	
ISI	UT-02-015	Limited UT examinations, see Appendix B
ISI	UT-02-016	

Summary No.	Component ID	Component Description	System	System Description
2-040-006	40-6	3" Sch 160 Elbow to Pipe	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	PT-02-012	
ISI	UT-02-019	

Summary No.	Component ID	Component Description	System	System Description
2-040-007	40-7	Pipe to Elbow	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	PT-02-020	
ISI	UT-02-020	

CLASS: 1 CATEGORY: B-J ITEM: B9.31 Required: 1 Complete: 1

Summary No.	Component ID	Component Description	System	System Description
2-006-013-008	13-8	SI Nozzle-to-Pipe Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-006	
ISI	UT-02-118	
ISI	UT-02-123	

CLASS: 1 CATEGORY: B-J ITEM: B9.32 Required: 3 Complete: 1

Summary No.	Component ID	Component Description	System	System Description
2-006-013-009	13-9	Charging Nozzle-to-Pipe Weld	RC	RCS Primary Piping

Workscope	Report No.	Examination Remarks
ISI	MT-02-157	

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CLASS: 1 ***CATEGORY: B-J*** ***ITEM: B9.40*** ***Required: 2*** ***Complete: 2***

Summary No.	Component ID	Component Description	System	System Description
2-033-006	33-6	2" Sch 160 Pipe-to-Valve	RC	Drain Line 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-050	

Summary No.	Component ID	Component Description	System	System Description
2-034-006	34-6	2" Sch 160 Pipe-to-Valve	RC	Drain Line 2A

Workscope	Report No.	Examination Remarks
ISI	PT-02-061	

CLASS: 1 ***CATEGORY: B-K-1*** ***ITEM: B10.10*** ***Required: 1*** ***Complete: 1***

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-H6-S	RC-91-H6	Support	RC	Letdown Line

Workscope	Report No.	Examination Remarks
ISI	PT-02-005	

CLASS: 1 ***CATEGORY: B-L-2*** ***ITEM: B12.20*** ***Required: 1*** ***Complete: 1***

Summary No.	Component ID	Component Description	System	System Description
2-019-RCP Bowl	Pump Case 2MRCEP01D	Pump Casing Internal Surfaces	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-072	

CLASS: 1 ***CATEGORY: B-O*** ***ITEM: B14.10*** ***Required: 4*** ***Complete: 4***

Summary No.	Component ID	Component Description	System	System Description
2-002-CEDM-9-78	CEDM-9-78	Upper Housing Weld	RC	Reactor Vessel Closure Head CEDM Housing

Workscope	Report No.	Examination Remarks
AUG	PT-02-078	
ISI	UT-02-086	

Summary No.	Component ID	Component Description	System	System Description
2-002-CEDM-9-88	CEDM-9-88	Upper Housing Weld	RC	Reactor Vessel Closure Head CEDM Housing

Workscope	Report No.	Examination Remarks
AUG	PT-02-080	
ISI	UT-02-087	

Summary No.	Component ID	Component Description	System	System Description
2-002-CEDM-10-78	CEDM-10-78	Tube Housing Lower Weld	RC	Reactor Vessel Closure Head CEDM Housing

Workscope	Report No.	Examination Remarks
AUG	PT-02-079	
ISI	UT-02-088	

Summary No.	Component ID	Component Description	System	System Description
2-002-CEDM-10-88	CEDM-10-88	Tube Housing Lower Weld	RC	Reactor Vessel Closure Head CEDM Housing

Workscope	Report No.	Examination Remarks
AUG	PT-02-081	
ISI	UT-02-089	

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CLASS: 1 ***CATEGORY: B-P*** ***ITEM: B15.10, 20, 30, 40, 50, 60 70*** ***Required: All*** ***Complete: All***

Summary No.	Component ID	Component Description	System	System Description
2-RCS Pres. Test	RCS Leakage Test	Piping and Components	Various	Pressure retaining piping and Components

Workscope	Report No.	Examination Remarks
ISI	VT-02-409	
ISI	01-2001	Period 1 VT Examination

CLASS: 1 ***CATEGORY: F-A*** ***ITEM: F1.10*** ***Required: 70*** ***Complete: 64***

Summary No.	Component ID	Component Description	System	System Description
2-021-RC-051-H004	RC-51-H4	Support	RC	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-038	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-021-RC-051-H005	RC-51-H5	Support	RC	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-037	

Summary No.	Component ID	Component Description	System	System Description
2-021-SI-240-H002	SI-240-H2	Support	SI	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-018	

Summary No.	Component ID	Component Description	System	System Description
2-021-SI-240-H012	SI-240-H12	Support	SI	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-017	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-021-SI-240-H822	SI-240-H822	Support	SI	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-016	

Summary No.	Component ID	Component Description	System	System Description
2-021-SI-240-H823	SI-240-H823	Support	SI	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-039	

Summary No.	Component ID	Component Description	System	System Description
2-021-SI-240-H824	SI-240-H824	Support	SI	Shutdown Cooling Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-040	

Summary No.	Component ID	Component Description	System	System Description
2-022-SI-193-H008	SI-193-H8	Support	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-012	

Summary No.	Component ID	Component Description	System	System Description
2-022-SI-193-H009	SI-193-H9	Support	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-014	

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CLASS: 1 CATEGORY: F-A ITEM: F1.10 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-022-SI-193-H020	SI-193-H20	Support	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-015	

Summary No.	Component ID	Component Description	System	System Description
2-022-SI-193-H025	SI-193-H25	Support	SI	Shutdown Cooling Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-013	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-023-SI-207-H007	SI-207-H7	Support	SI	SI 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-243	
ISI	VT-02-244	

Summary No.	Component ID	Component Description	System	System Description
2-023-SI-207-H011	SI-207-H11	Support	SI	SI 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-235	

Summary No.	Component ID	Component Description	System	System Description
2-024-SI-223-H001	SI-223-H1	Support	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-241	

Summary No.	Component ID	Component Description	System	System Description
2-024-SI-223-H002	SI-223-H2	Support	SI	SI 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-240	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-025-SI-160-H001	SI-160-H1	Support	SI	SI 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-238	

Summary No.	Component ID	Component Description	System	System Description
2-026-SI-175-H021	SI-175-H21	Support	SI	SI 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-315	

Summary No.	Component ID	Component Description	System	System Description
2-026-SI-175-H022	SI-175-H22	Support	SI	SI 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-317	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-016-H005	RC-16-H5	Support	RC	Pressurizer Spray 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-344	

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CLASS: 1 CATEGORY: F-A ITEM: F1.10 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-016-H006	RC-16-H6	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-345			

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-016-H007	RC-16-H7	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-346			

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-016-H015	RC-16-H15	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-347	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-062-H035	RC-62-H35	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-348			

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-062-H036	RC-62-H36	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-349	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-062-H037	RC-62-H37	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-350			

Summary No.	Component ID	Component Description	System	System Description
2-027-RC-062-H038	RC-62-H38	Support	RC	Pressurizer Spray 1A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-351			

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-017-H043	RC-17-H43	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-379			

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-017-H044	RC-17-H44	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-381	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-017-H045	RC-17-H45	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-380			

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CLASS: 1 CATEGORY: F-A ITEM: F1.10 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-017-H046	RC-17-H46	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-382			

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-018-H009	RC-18-H9	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-383			

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-018-H010	RC-18-H10	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-384	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-018-H011	RC-18-H11	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-385	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-028-RC-018-H012	RC-18-H12	Support	RC	Pressurizer Spray 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-378			

Summary No.	Component ID	Component Description	System	System Description
2-029-RC-018-H017	RC-18-H17	Support	RC	Combined Pressurizer Spray
Workscope	Report No.	Examination Remarks		
ISI	VT-02-411			

Summary No.	Component ID	Component Description	System	System Description
2-033-RC-058-HA	RC-58-HA	Support	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-309			

Summary No.	Component ID	Component Description	System	System Description
2-033-RC-058-HB	RC-58-HB	Support	RC	Drain Line 1B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-310	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-034-RC-096-HA	RC-96-HA	Support	RC	Drain Line 2A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-318			

Summary No.	Component ID	Component Description	System	System Description
2-034-RC-096-HB	RC-96-HB	Support	RC	Drain Line 2A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-319	Support Deleted		

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CLASS: 1 CATEGORY: F-A ITEM: F1.10 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-H2	RC-91-H2	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-372			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-H6	RC-91-H6	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-019			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-HAJ	RC-91-HAJ	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-373			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-HAP	RC-91-HAP	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-374			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-HAQ	RC-91-HAQ	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-375			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-HP	RC-91-HP	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-376			

Summary No.	Component ID	Component Description	System	System Description
2-036-RC-091-HQ	RC-91-HQ	Support	RC	Letdown Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-377			

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H013	CH-5-H13	Support	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-330			

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H017	CH-5-H17	Support	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-332			

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H018	CH-5-H18	Support	CH	Charging Line
Workscope	Report No.	Examination Remarks		
ISI	VT-02-333			

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CLASS: 1 CATEGORY: F-A ITEM: F1.10 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H019	CH-5-H19	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-329	

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H020	CH-5-H20	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-337	
ISI	VT-02-339	

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H021	CH-5-H21	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-334	
ISI	VT-02-338	

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H022	CH-5-H22	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-335	

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H032	CH-5-H32	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-336	

Summary No.	Component ID	Component Description	System	System Description
2-037-CH-005-H037	CH-5-H37	Support	CH	Charging Line

Workscope	Report No.	Examination Remarks
ISI	VT-02-331	

Summary No.	Component ID	Component Description	System	System Description
2-039-SI-248-H017	SI-248-H17	Support	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-304	

Summary No.	Component ID	Component Description	System	System Description
2-039-SI-248-H018	SI-248-H18	Support	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-305	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-039-SI-248-H019	SI-248-H19	Support	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-307	

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CLASS: 1 ***CATEGORY: F-A*** ***ITEM: F1.10*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-039-SI-248-H020	SI-248-H20	Support	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-308	

Summary No.	Component ID	Component Description	System	System Description
2-039-SI-248-H029	SI-248-H29	Support	SI	HPSI Long Term Recirculation Loop 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-306	

Summary No.	Component ID	Component Description	System	System Description
2-040-SI-199-H015	SI-199-H15	Support	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-326	

Summary No.	Component ID	Component Description	System	System Description
2-040-SI-199-H016	SI-199-H16	Support	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-327	

Summary No.	Component ID	Component Description	System	System Description
2-040-SI-199-H017	SI-199-H17	Support	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-328	

Summary No.	Component ID	Component Description	System	System Description
2-040-SI-199-H018	SI-199-H18	Support	SI	HPSI Long Term Recirculation Loop 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-325	

CLASS: 1 ***CATEGORY: F-A*** ***ITEM: F1.40*** ***Required: 13*** ***Complete: 10***

Summary No.	Component ID	Component Description	System	System Description
2-016-012	16-12	Pump Support # 1, Vertical Column Assembly	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-355	

Summary No.	Component ID	Component Description	System	System Description
2-016-013	16-13	Pump Support # 2, Vertical Column Assembly	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-388	

Summary No.	Component ID	Component Description	System	System Description
2-016-014	16-14	Pump Support # 3, Vertical Column Assembly	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-389	

CLASS: 1 ***CATEGORY: F-A*** ***ITEM: F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-016-015	16-15	Pump Support # 4, Vertical Column Assembly	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-390	

Summary No.	Component ID	Component Description	System	System Description
2-017-012	17-12	Pump Support # 1, Vertical Column Assembly	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-356	

Summary No.	Component ID	Component Description	System	System Description
2-017-013	17-13	Pump Support # 2, Vertical Column Assembly	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-391	

Summary No.	Component ID	Component Description	System	System Description
2-017-014	17-14	Pump Support # 3, Vertical Column Assembly	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-392	

Summary No.	Component ID	Component Description	System	System Description
2-017-015	17-15	Pump Support # 4, Vertical Column Assembly	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-393	

Summary No.	Component ID	Component Description	System	System Description
2-018-017	18-17	Pump Support # 5, Snubber	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-231	
ISI	VT-02-232	

Summary No.	Component ID	Component Description	System	System Description
2-018-018	18-18	Pump Support # 6, Snubber	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-233	
ISI	VT-02-234	

CLASS: 1 ***CATEGORY: N/A*** ***ITEM: N/A (RCP FLYWHEEL - R.G. 1.14)*** ***Required: 4*** ***Complete: 4***

Summary No.	Component ID	Component Description	System	System Description
2-016-FLYWHEEL	16-Flywheel	Flywheel-RCP-1A (S\N #47429)	RC	Reactor Coolant Pump 1A

Workscope	Report No.	Examination Remarks
AUG	UT-02-084	

Summary No.	Component ID	Component Description	System	System Description
2-017-FLYWHEEL	17-Flywheel	Flywheel-RCP 1B (S\N #47432)	RC	Reactor Coolant Pump 1B

Workscope	Report No.	Examination Remarks
AUG	UT-02-085	

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CLASS: 1 ***CATEGORY: N/A*** ***ITEM: N/A (RCP FLYWHEEL - R.G. 1.14)*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-018-FLYWHEEL	18-Flywheel	Flywheel-RCP-2A (S\N #47430)	RC	Reactor Coolant Pump 2A

Workscope	Report No.	Examination Remarks
AUG	UT-02-082	

Summary No.	Component ID	Component Description	System	System Description
2-019-FLYWHEEL	19-Flywheel	Flywheel-RCP-2B (S\N #47431)	RC	Reactor Coolant Pump 2B

Workscope	Report No.	Examination Remarks
AUG	UT-02-081	

CLASS: 2 ***CATEGORY: C-C*** ***ITEM: C3.20*** ***Required: 23*** ***Complete: 11***

Summary No.	Component ID	Component Description	System	System Description
2-043-SG-036-H012-S	SG-36-H12	Integral Attachment	SG	Main Steam (East) SG1-90

Workscope	Report No.	Examination Remarks
ISI	MT-02-142	

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H015-S	SG-33-H15	Integral Attachment	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	MT-02-141	

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H016-S	SG-33-H16	Integral Attachment	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	MT-02-143	

Summary No.	Component ID	Component Description	System	System Description
2-045-SG-042-H012-S	SG-42-H12	Integral Attachment	SG	Main Steam (East) SG2-270

Workscope	Report No.	Examination Remarks
ISI	MT-02-144	

Summary No.	Component ID	Component Description	System	System Description
2-046-SG-045-H012-S	SG-45-H12	Integral Attachment	SG	Main Steam (West) SG2-90

Workscope	Report No.	Examination Remarks
ISI	MT-02-153	

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H001-S	SG-39-H1	Integral Attachment	SG	Blowdown SG1

Workscope	Report No.	Examination Remarks
ISI	MT-02-004	

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H005-S	SG-53-H5	Integral Attachment	SG	Blowdown SG1

Workscope	Report No.	Examination Remarks
ISI	MT-02-003	
ISI	PT-02-022	Supplemental to achieve 100% coverage

CLASS: 2 CATEGORY: C-C ITEM: C3.20 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H016-S	SG-48-H16	Integral Attachment	SG	Blowdown SG2

Workscope	Report No.	Examination Remarks
ISI	MT-02-005	

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H013-S	SI-174-H13	Integral Attachment	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	PT-02-046	

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-142-H020-S	CH-142-H20	Integral Attachment	CH	Refueling Water Suction A

Workscope	Report No.	Examination Remarks
ISI	PT-02-024	

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H003-S	SI-308-H3	Integral Attachment	SI	SI Pump B Train Suction

Workscope	Report No.	Examination Remarks
ISI	PT-02-076	

CLASS: 2 CATEGORY: C-D ITEM: C4.40 Required: 40 Complete: 40

Summary No.	Component ID	Component Description	System	System Description
2-056-UV132	UV132	Bonnet Bolting	SG	FW SG1

Workscope	Report No.	Examination Remarks
ISI	UT-02-107	20 Studs

Summary No.	Component ID	Component Description	System	System Description
2-056-UV174	UV174	Bonnet Bolting	SG	FW SG 1

Workscope	Report No.	Examination Remarks
ISI	UT-02-108	20 Studs

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.11 & C5.12 Required: 27 Complete: 8

Summary No.	Component ID	Component Description	System	System Description
2-059-016C	59-16C	Pipe to Tee	AF	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
ISI	PT-02-043	
ISI	UT-02-075	

Summary No.	Component ID	Component Description	System	System Description
2-059-034	59-34	Penetration to Pipe	AF	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
ISI	PT-02-042	
ISI	UT-02-080	

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CLASS: 2 CATEGORY: C-F-1 ITEM: C5.11 & C5.12 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-070-056	70-56	20" Sch 20 SS Pipe-to-Elbow	SI	LPSI Pump Room "A" Suction

Workscope	Report No.	Examination Remarks
ISI	PT-02-036	Includes long seam
ISI	UT-02-054	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-094-074-037	74-37	20" XS Elbow-to-Pipe	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	PT-02-033	No credit for surface exam on long seam
ISI	UT-02-055	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-097-077-022	77-22	Cont. Penetration # 20-to-12" Sch 140 Pipe	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-047	
ISI	UT-02-103	

Summary No.	Component ID	Component Description	System	System Description
2-097-077-027	77-27	Valve-to-12" Sch 140 Pipe	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	PT-02-045	
ISI	UT-02-104	Limited UT examinations, see Appendix B
ISI	UT-02-105	

Summary No.	Component ID	Component Description	System	System Description
2-100-070-121	70-121	Valve to Pipe	SI	Cont. LPSI Train A Suction

Workscope	Report No.	Examination Remarks
ISI	PT-02-063	
ISI	UT-02-127	Limited UT examinations, see Appendix B
ISI	UT-02-128	

Summary No.	Component ID	Component Description	System	System Description
2-102-084-026	84-26	24" Sch 30 Elbow-to-Pipe	SI	SI Pumps A Train Suction

Workscope	Report No.	Examination Remarks
ISI	PT-02-032	No credit for surface exam on long seam
ISI	UT-02-053	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-103-086-003	86-3	20" Sch 20 Pipe-to-Elbow	CH	Refueling Water Suction A

Workscope	Report No.	Examination Remarks
ISI	PT-02-025	Includes long seam
ISI	UT-02-024	Includes long seam

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.11 & C5.12 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-104-085-031	85-31	24" Sch 30 Elbow-to-Pipe	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	PT-02-077	No credit for surface exam on long seam
ISI	UT-02-101	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-105-087-037	87-37	Pipe to Elbow	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	PT-02-023	Includes long seam
ISI	UT-02-023	Includes long seam

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.21 Required: 17 Complete: 3

Summary No.	Component ID	Component Description	System	System Description
2-115-020	115-20	Pipe to valve	SI	Cont. HPSI Header Loop 2A & 2B

Workscope	Report No.	Examination Remarks
ISI	PT-02-021	
ISI	UT-02-013	Limited UT examinations, see Appendix B
ISI	UT-02-014	

Summary No.	Component ID	Component Description	System	System Description
2-118-049	118-49	Pipe to valve	SI	HPSI "A" Long Term Recirculation

Workscope	Report No.	Examination Remarks
ISI	PT-02-018	
ISI	UT-02-017	Limited UT examinations, see Appendix B
ISI	UT-02-018	

Summary No.	Component ID	Component Description	System	System Description
2-119-052	119-52	Pipe to valve	SI	HPSI "B" Long Term Recirculation

Workscope	Report No.	Examination Remarks
ISI	PT-02-015	
ISI	UT-02-009	Limited UT examinations, see Appendix B
ISI	UT-02-012	

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.30 Required: 1 Complete: 1

Summary No.	Component ID	Component Description	System	System Description
2-106-061	106-61	Orifice to Pipe	SI	HPSI Pump Room "A" Discharge

Workscope	Report No.	Examination Remarks
ISI	PT-02-031	

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.41 Required: 2 Complete: 1

Summary No.	Component ID	Component Description	System	System Description
2-096-076-079	76-79	Pipe to sweepolet	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	PT-02-075	

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CLASS: 2 CATEGORY: C-F-2 ITEM: C5.51 & C5.52 Required: 10 (10) Complete: 3 (8)

Summary No.	Component ID	Component Description	System	System Description
2-044-005	44-5	28" Carbon Steel Pipe-to-Elbow	SG	Main Steam (West) SG1

Workscope	Report No.	Examination Remarks
ISI	MT-02-140	No credit for surface exam on long seam
ISI	UT-02-060	Includes long seam

Summary No.	Component ID	Component Description	System	System Description
2-044-030	44-30	28" Carbon Steel Pipe-to-Penetration # 1	SG	Main Steam (West) SG1

Workscope	Report No.	Examination Remarks
ISI	MT-02-015	No credit for long seam
ISI	UT-02-043	No credit for long seam

Summary No.	Component ID	Component Description	System	System Description
2-054-011A	54-11A	Pipe to Reducer	SG	FW SG1

Workscope	Report No.	Examination Remarks
ISI	MT-02-001	
ISI	UT-02-042	

Summary No.	Component ID	Component Description	System	System Description
2-055-026	55-26	Reducer to Pipe	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	MT-02-002	
ISI	UT-02-041	

Summary No.	Component ID	Component Description	System	System Description
2-058-012	58-12	Pipe to Elbow	SG	Aux & Dwncmr FW SG1

Workscope	Report No.	Examination Remarks
AUG	MT-02-146	
AUG	UT-02-077	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-058-013	58-13	Elbow to Pipe	SG	Aux & Dwncmr FW SG1

Workscope	Report No.	Examination Remarks
AUG	MT-02-134	
AUG	UT-02-069	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-058-016	58-16	Pipe to Elbow	SG	Aux & Dwncmr FW SG1

Workscope	Report No.	Examination Remarks
AUG	MT-02-135	
AUG	UT-02-070	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-058-016A	58-16A	Tee to Pipe	SG	Aux & Dwncmr FW SG #1

Workscope	Report No.	Examination Remarks
AUG	MT-02-136	
AUG	UT-02-071	Augmented examination per IEB 79-13 & SER 83-07

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CLASS: 2 CATEGORY: C-F-2 ITEM: C5.51 & C5.52 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-059-012	59-12	Pipe to Elbow	SG	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
AUG	MT-02-147	
AUG	UT-02-078	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-059-013	59-13	Elbow to Pipe	SG	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
AUG	MT-02-137	
AUG	UT-02-072	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-059-016	59-16	Pipe to Elbow	SG	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
AUG	MT-02-138	
AUG	UT-02-073	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-059-016A	59-16A	Tee to Pipe	SG	Aux & Dwncmr FW SG #2

Workscope	Report No.	Examination Remarks
AUG	MT-02-139	
AUG	UT-02-074	Augmented examination per IEB 79-13 & SER 83-07

Summary No.	Component ID	Component Description	System	System Description
2-065-052	65-52	6" Sch 120 Pipe-to Cont. Penetration	SG	Blowdown SG2

Workscope	Report No.	Examination Remarks
ISI	MT-02-145	
ISI	UT-02-102	

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CLASS: 2 ***CATEGORY: C-H*** ***ITEM: C7.10, 30, 50, 70*** ***Required: All*** ***Complete: ~10%***

Summary No.	Component ID	Component Description	System	System Description
2-Pres. Test	System Leakage Test	Piping and Components	Various	Pressure Retaining Piping and Components

Workscope	Report No.	Examination Remarks
ISI	VT-02-409	
ISI	01-2037	Period 1 VT Examination
ISI	01-2050	Period 1 VT Examination
ISI	01-2038	Period 1 VT Examination
ISI	01-2036	Period 1 VT Examination
ISI	01-2032	Period 1 VT Examination
ISI	01-2022	Period 1 VT Examination
ISI	01-2021	Period 1 VT Examination
ISI	01-2020	Period 1 VT Examination
ISI	01-2019	Period 1 VT Examination
ISI	01-2018	Period 1 VT Examination
ISI	01-2017	Period 1 VT Examination
ISI	01-2016	Period 1 VT Examination
ISI	01-2012	Period 1 VT Examination
ISI	01-2003	Period 1 VT Examination
ISI	01-2002	Period 1 VT Examination
ISI	01-2001	Period 1 VT Examination

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***Required: 248*** ***Complete: 120***

Summary No.	Component ID	Component Description	System	System Description
2-043-SG-036-H012	SG-36-H12	Support	SG	Main Steam (East) SG1-90

Workscope	Report No.	Examination Remarks
ISI	VT-02-395	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H015	SG-33-H15	Support	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	VT-02-396	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H016	SG-33-H16	Support	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	VT-02-397	

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H881	SG-33-H881	Support	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	VT-02-275	

Summary No.	Component ID	Component Description	System	System Description
2-044-SG-033-H882	SG-33-H882	Support	SG	Main Steam (West) SG1-270

Workscope	Report No.	Examination Remarks
ISI	VT-02-274	

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CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-045-SG-042-H012	SG-42-H12	Support	SG	Main Steam (East) SG2-270
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-277	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-045-SG-042-H013	SG-42-H13	Support	SG	Main Steam (East) SG2-270
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-276	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-046-SG-045-H012	SG-45-H12	Support	SG	Main Steam (West) SG 2-90
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-354	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-046-SG-045-H887	SG-45-H887	Support	SG	Main Steam (West) SG2-90
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-259			

Summary No.	Component ID	Component Description	System	System Description
2-046-SG-045-H888	SG-45-H888	Support	SG	Main Steam (West) SG2-90
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-256			

Summary No.	Component ID	Component Description	System	System Description
2-053-SG-081-H004	SG-81-H4	Support	SG	Steam to Aux. FW System
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-089	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-053-SG-083-H004	SG-83-H4	Support	SG	Steam to Aux. FW System
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-090	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-054-SG-002-H011	SG-2-H11	Support	SG	FW SG1
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-008			
ISI	VT-02-011			

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H004	SG-5-H4	Support	SG	FW SG2
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-246			
ISI	VT-02-247			

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H005	SG-5-H5	Support	SG	FW SG2
Workscope	**Report No.**	**Examination Remarks**		
ISI	VT-02-248			

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CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H006	SG-5-H6	Support	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	VT-02-249	
ISI	VT-02-253	

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H007	SG-5-H7	Support	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	VT-02-250	
ISI	VT-02-254	

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H008	SG-5-H8	Support	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	VT-02-272	

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H013	SG-5-H13	Support	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	VT-02-273	

Summary No.	Component ID	Component Description	System	System Description
2-055-SG-005-H014	SG-5-H14	Support	SG	FW SG2

Workscope	Report No.	Examination Remarks
ISI	VT-02-251	
ISI	VT-02-255	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H006	SG-8-H6	Support	SG	Aux & Dwncmr FW SG1

Workscope	Report No.	Examination Remarks
ISI	VT-02-340	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H007	SG-8-H7	Support	SG	Aux & Downcomer Feedwater SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-341	
ISI	VT-02-343	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H008	SG-8-H8	Support	SG	Aux & Dwncmr FW SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-205	

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CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H009	SG-8-H9	Support	SG	Aux & Dwncmr FW SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-206	
ISI	VT-02-208	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H010	SG-8-H10	Support	SG	Aux & Dwncmr FW SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-207	
ISI	VT-02-212	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H011	SG-8-H11	Support	SG	Aux & Dwncmr FW SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-209	

Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H017	SG-8-H17	Support	SG	Aux & Dwncmr FW SG 1

Workscope	Report No.	Examination Remarks
ISI	VT-02-342	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H013	SG-11-H13	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-353	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H014	SG-11-H14	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-213	
ISI	VT-02-214	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H015	SG-11-H15	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-210	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H016	SG-11-H16	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-204	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H018	SG-11-H18	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-352	

Summary No.	Component ID	Component Description	System	System Description
2-059-SG-011-H019	SG-11-H19	Support	SG	Aux & Dwncmr FW SG 2

Workscope	Report No.	Examination Remarks
ISI	VT-02-211	

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CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H001	SG-39-H1	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-003	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H002	SG-39-H2	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-002	Support deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H003	SG-39-H3	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-032	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H004	SG-39-H4	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-033			

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H005	SG-39-H5	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-034			

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H006	SG-39-H6	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-035	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-039-H027	SG-39-H27	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-036	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H003	SG-53-H3	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-041	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H004	SG-53-H4	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-042			

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H005	SG-53-H5	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-043			

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2-2-1 (2R10)

CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H006	SG-53-H6	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-044	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-064-SG-053-H007	SG-53-H7	Support	SG	Blowdown SG1
Workscope	Report No.	Examination Remarks		
ISI	VT-02-045	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H013	SG-48-H13	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-025	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H014	SG-48-H14	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-024			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H015	SG-48-H15	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-023			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H016	SG-48-H16	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-026			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H017	SG-48-H17	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-027	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H018	SG-48-H18	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-022			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H022	SG-48-H22	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-021			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H023	SG-48-H23	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-028			

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H024	SG-48-H24	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-031			

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H025	SG-48-H25	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-030	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H026	SG-48-H26	Support	SG	Blowdown SG2
Workscope	Report No.	Examination Remarks		
ISI	VT-02-029	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-071-SI-078-H001	SI-78-H1	Support	SI	LPSI Pump Room "A" Discharge
Workscope	Report No.	Examination Remarks		
ISI	VT-02-053			

Summary No.	Component ID	Component Description	System	System Description
2-071-SI-078-H002	SI-78-H2	Support	SI	LPSI Pump Room "A" Discharge
Workscope	Report No.	Examination Remarks		
ISI	VT-02-052			

Summary No.	Component ID	Component Description	System	System Description
2-071-SI-087-H001	SI-87-H1	Support	SI	LPSI Pump Room "A" Discharge
Workscope	Report No.	Examination Remarks		
ISI	VT-02-051			

Summary No.	Component ID	Component Description	System	System Description
2-071-SI-087-H002	SI-87-H2	Support	SI	LPSI Pump Room "A" Discharge
Workscope	Report No.	Examination Remarks		
ISI	VT-02-050			

Summary No.	Component ID	Component Description	System	System Description
2-071-SI-087-H003	SI-87-H3	Support	SI	LPSI Pump Room "A" Discharge
Workscope	Report No.	Examination Remarks		
ISI	VT-02-049			

Summary No.	Component ID	Component Description	System	System Description
2-073-SI-308-H014	SI-308-H14	Support	SI	LPSI Pump Room "B" Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-289			

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-080-SI-119-H001	SI-119-H1	Support	SI	Containment Spray Pump Room "B" Discharge

Workscope	Report No.	Examination Remarks
PSE	01-2004	

Summary No.	Component ID	Component Description	System	System Description
2-086-SI-129-H012	SI-129-H12	Support	SI	Shutdown Cooling Heat Exchanger Room B

Workscope	Report No.	Examination Remarks
PSE	01-2005	

Summary No.	Component ID	Component Description	System	System Description
2-094-SI-241-H006	SI-241-H6	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-062	

Summary No.	Component ID	Component Description	System	System Description
2-094-SI-241-H007	SI-241-H7	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-061	

Summary No.	Component ID	Component Description	System	System Description
2-094-SI-241-H008	SI-241-H8	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-088	

Summary No.	Component ID	Component Description	System	System Description
2-094-SI-241-H017	SI-241-H17	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-075	

Summary No.	Component ID	Component Description	System	System Description
2-095-SI-072-H007	SI-72-H7	Support	SI	B Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-047	
ISI	VT-02-059	

Summary No.	Component ID	Component Description	System	System Description
2-095-SI-072-H009	SI-72-H9	Support	SI	B Train Misc. Pipe Chases and 88' Pipe Tunnel

Workscope	Report No.	Examination Remarks
ISI	VT-02-046	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H003	SI-202-H3	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-081	

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H004	SI-202-H4	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-080	

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H006	SI-202-H6	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-079	

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H010	SI-202-H10	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-077	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H011	SI-202-H11	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-078	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-096-SI-202-H015	SI-202H15	Support	SI	Cont. LPSI Header to Loop 1A

Workscope	Report No.	Examination Remarks
ISI	VT-02-082	

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H001	SI-220-H1	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-298	

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H016	SI-220-H16	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-299	

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H017	SI-220-H17	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-300	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H018	SI-220-H18	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-301	

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H021	SI-220-H21	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-302	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-097-SI-220-H028	SI-220-H28	Support	SI	Cont. LPSI Header to Loop 1B

Workscope	Report No.	Examination Remarks
ISI	VT-02-303	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-098-SI-155-H001	SI-155-H1	Support	SI	Cont. LPSI Header to Loop 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-087	

Summary No.	Component ID	Component Description	System	System Description
2-098-SI-155-H002	SI-155-H2	Support	SI	Cont. LPSI Header to Loop 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-084	

Summary No.	Component ID	Component Description	System	System Description
2-098-SI-155-H003	SI-155-H3	Support	SI	Cont. LPSI Header to Loop 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-085	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-098-SI-155-H004	SI-155-H4	Support	SI	Cont. LPSI Header to Loop 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-086	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-098-SI-155-H007	SI-155-H7	Support	SI	Cont. LPSI Header to Loop 2A

Workscope	Report No.	Examination Remarks
ISI	VT-02-083	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H007	SI-174-H7	Support	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-404	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H008	SI-174-H8	Support	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-405	

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H009	SI-174-H9	Support	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-406	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H010	SI-174-H10	Support	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-407	

Summary No.	Component ID	Component Description	System	System Description
2-099-SI-174-H013	SI-174-H13	Support	SI	Cont. LPSI Header to Loop 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-408	

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-008-H001	SI-8-H1	Support	SI	SI Pumps A Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-055	

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-008-H002	SI-8-H2	Support	SI	SI Pumps A Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-054	

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-008-H003	SI-8-H3	Support	SI	SI Pumps A Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-056	

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-008-H004	SI-8-H4	Support	SI	SI Pumps A Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-057	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 CATEGORY: F-A ITEM: F1.20 & F1.40 (continued)

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-307-H006	SI-307-H6	Support	SI	SI Pumps A Train Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-060			

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-307-H007	SI-307-H7	Support	SI	SI Pumps A Train Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-063			

Summary No.	Component ID	Component Description	System	System Description
2-102-SI-307-H014	SI-307-H14	Support	SI	SI Pumps A Train Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-048			

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-142-H008	CH-142-H8	Support	CH	Refueling Water Suction A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-064			

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-142-H020	CH-142-H20	Support	CH	Refueling Water Suction A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-065			

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-142-H021	CH-142-H21	Support	CH	Refueling Water Suction A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-067			

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-424-H002	CH-424-H2	Support	CH	Refueling Water Suction A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-066			

Summary No.	Component ID	Component Description	System	System Description
2-103-CH-424-H003	CH-424-H3	Support	CH	Refueling Water Suction A
Workscope	Report No.	Examination Remarks		
ISI	VT-02-068			

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H001	SI-308-H1	Support	SI	SI Pumps B Train Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-284			

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H002	SI-308-H2	Support	SI	SI Pumps B Train Suction
Workscope	Report No.	Examination Remarks		
ISI	VT-02-285			

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H003	SI-308-H3	Support	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-297	

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H004	SI-308-H4	Support	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-296	

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H006	SI-308-H6	Support	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-286	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H007	SI-308-H7	Support	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-287	Support Deleted

Summary No.	Component ID	Component Description	System	System Description
2-104-SI-308-H015	SI-308-H15	Support	SI	SI Pumps B Train Suction

Workscope	Report No.	Examination Remarks
ISI	VT-02-288	

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H001	CH-149-H1	Support	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	VT-02-400	Expansion

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H002	CH-149-H2	Support	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	VT-02-401	Expansion

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H003	CH-149-H3	Support	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	VT-02-402	Expansion

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H004	CH-149-H4	Support	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	VT-02-283	Reject
PSE	VT-02-387	Re-examination, PSE after replacement

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H005	CH-149-H5	Support	CH	Refueling Water Suction B

Workscope	Report No.	Examination Remarks
ISI	VT-02-294	

Appendix 1
Inservice Inspection Summary Report
2-2-1 (2R10)

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H006	CH-149-H6	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-293			

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H007	CH-149-H7	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-295			

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H008	CH-149-H8	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-398	Expansion		

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H021	CH-149-H21	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-399	Expansion		

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H025	CH-149-H25	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-292			

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H026	CH-149-H26	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-291			

Summary No.	Component ID	Component Description	System	System Description
2-105-CH-149-H027	CH-149-H27	Support	CH	Refueling Water Suction B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-290			

Summary No.	Component ID	Component Description	System	System Description
2-115-SI-157-H010	SI-157-H10	Support	SI	Containment HPSI Header Loop 2A & 2B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-076	Support Deleted		

Summary No.	Component ID	Component Description	System	System Description
2-115-SI-157-H011	SI-157-H11	Support	SI	Containment HPSI Header Loop 2A & 2B
Workscope	Report No.	Examination Remarks		
ISI	VT-02-074			

CLASS: 2 ***CATEGORY: F-A*** ***ITEM: F1.20 & F1.40*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-115-SI-176-H004	SI-176-H4	Support	SI	Containment HPSI Header Loop 2A & 2B

Workscope	Report No.	Examination Remarks
ISI	VT-02-073	

CLASS: 2 ***CATEGORY: C-F-2*** ***ITEM: AHE5.51*** ***Required: 57*** ***Complete: 8***

Summary No.	Component ID	Component Description	System	System Description
2-053-001	53-1	Sweepolet-to-6" Sch 80 Pipe	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-013	
AUG	UT-02-092	Supplemental Exam

Summary No.	Component ID	Component Description	System	System Description
2-053-002	53-2	6" Sch 80 Pipe-to-Elbow	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-012	
AUG	UT-02-093	

Summary No.	Component ID	Component Description	System	System Description
2-053-004	53-4	6" Sch 80 Elbow-to-Pipe	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-016	
AUG	UT-02-094	

Summary No.	Component ID	Component Description	System	System Description
2-053-005	53-5	6" Sch 80 Pipe-to-Elbow	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-011	
AUG	UT-02-095	

Summary No.	Component ID	Component Description	System	System Description
2-053-006	53-6	6" Sch 80 Elbow-to-Pipe	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-017	
AUG	UT-02-096	

Summary No.	Component ID	Component Description	System	System Description
2-053-007	53-7	6" Sch 80 Pipe-to-Elbow	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-010	
AUG	UT-02-097	

Summary No.	Component ID	Component Description	System	System Description
2-053-008	53-8	6" Sch 80 Elbow-to-Pipe	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-009	
AUG	UT-02-098	

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Inservice Inspection Summary Report
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CLASS: 2 ***CATEGORY: C-F-2*** ***ITEM: AHE5.51*** ***(continued)***

Summary No.	Component ID	Component Description	System	System Description
2-053-009	53-9	6" Sch 80 Pipe-to-Elbow	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-014	
AUG	UT-02-099	

Summary No.	Component ID	Component Description	System	System Description
2-053-010	53-10	6" Sch 80 Elbow-to-Pipe	SG	Steam to Aux. FW System

Workscope	Report No.	Examination Remarks
AUG	MT-02-008	
AUG	UT-02-100	

APPENDIX B

INSERVICE INSPECTION
CODE LIMITATIONS

UNIT 2 - REFUELING OUTAGE TEN

CODE LIMITATIONS

ASME Item	ITEM ID	Component	Report Number(s)
B03.110	2-005-010	Pressurizer	UT-02-027, 033, 036, 039
B03.110	2-005-013	Pressurizer	UT-02-031, 034, 037, 040

Limitation Pressurizer head to nozzle weld examinations limited to an average of 83% coverage, due to geometrical configuration.

ASME Item	ITEM ID	Component	Report Number(s)
B08.20	2-005-001	Pressurizer	UT-02-056, 057, 058, 059

Limitation The Pressurizer skirt weld examinations limited to an average of 57.5% coverage, due to geometrical configuration.

ASME Item	ITEM ID	Component	Report Number(s)
B09.11	2-025-004	Safety Injection 2A	UT-02-110 & 113
B09.11	2-023-006	Safety Injection 1A	UT-02-090 & 091
B09.11	2-024-006	Safety Injection 1B	UT-02-001 & 003
B09.11	2-024-014	Safety Injection 1B	UT-02-045 & 050
B09.11	2-024-016	Safety Injection 1B	UT-02-046 & 048
B09.11	2-024-019	Safety Injection 1B	UT-02-047 & 051
B09.11	2-025-006	Safety Injection 2A	UT-02-111 & 114
B09.11	2-026-006	Safety Injection 2A	UT-02-002 & 004
B09.11	2-026-017	Safety Injection 2B	UT-02-044 & 049
B09.21	2-039-024	HPSI Long Term Recirc. Loop 1	UT-02-015 & 016
C05.11	2-097-077-027	Cont. LPSI Header to Loop 1B	UT-02-104 & 105
C05.11	2-100-070-121	Cont. LPSI Train A Suction	UT-02-127 & 128
C05.21	2-115-020	Cont. HPSI Header Loop 2A & 2B	UT-02-013 & 014
C05.21	2-118-049	HPSI "A" Long Term Recirc.	UT-02-017 & 018
C05.21	2-119-052	HPSI "B" Long Term Recirc.	UT-02-009 & 012

Limitation Single-sided Austenitic weld examinations estimated at 50% coverage, based on ASME Appendix VIII PDI demonstration.

APPENDIX C

NIS-1 FORMS

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 - *2*

4. OWNERS' CERTIFICATE OF AUTHORIZATION - *NONE*

5. COMMERCIAL SERVICE DATE - *September 19, 1986*

6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO

This report is a summary of the second interval second period examinations performed to date for Unit 2. Selected examinations are being applied to Period 1, with no credit taken for Period 2. The items examined, along with the examination report numbers, are listed in Appendix A.

APS NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 11-3-2001 TO 4-15-2002

8. INSPECTION INTERVAL FROM 3-18-1997 TO 3-17-2007

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 Category and Item Numbers with the corresponding examination report numbers.

10. ABSTRACT OF CONDITIONS NOTED

The three rejectable conditions documented during this outage were corrected or determined "use as is" in accordance with PVNGS work control practices and ASME Section XI. One support was damaged, the pressurize skirt weld had an indication and boron was on instrumentation tubes. Section 2 - Examination Summary of the summary report addresses these conditions.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

The rejectable portion of the support CH149H9 was replaced in accordance with ASME Section XI and APS Work Control procedures. The pressurizer skirt weld and instrumentation tubes were verified to remain essentially unchanged from the original evaluation.

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

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

DATE 7/11/02 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael A. Meehan

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSB-CT. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 11-3-01 TO 4-15-02, 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 Robert Shaw COMMISSIONS NB10448, "BNIC", CA 1716
NAT'L BOARD, STATE, PROVINCE

DATE Jul. 11, 2002

APPENDIX D

NIS-2 FORMS

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JDGAHCV0009 2. Code Class 3
3. Item Description ISOLATION VALVE FOR 2MDGAX01B
4. N-5 Package Number 2DG01-2 5. W.O. Number 00919271
6. Original Construction Code Edition 1974 EDITION, SUMMER 1976 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACE VALVE TO ALLOW INSTALLATION OF A SOFT SEAT AS REQUIRED TO CORRECT THE NOTED LEAKAGE BY THE SEAT.
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. REF. ECE-DG-A062
11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME III, CL3, 74 ED., S'76 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition SECTION III, 74 EDITION, W'75 ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☑ NO

Initial 03/14/00 Date If required, include a step in the W.O. to perform Preservice Inspection.

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

Initial 03/14/00 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 03/14/00 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 03/14/00 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JDGAHCV0009	APN 4500-3509	NA-523929-01A	N/A	357601-1

19. Planner D. L. Brunson Signature 03/14/00 Date Print Name DAVID L. BRUNSON
20. ISI Engineer Alan Morrow Signature 3-14-00 Date Print Name Alan Morrow
21. ANII R. G. Hockstrom Signature 3-14-00 Date Print Name R. G. Hockstrom

73DP-9ZZ17

PV E0093 Ver. 4

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 01/17/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 230255 (Work Order Number)

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

Authorization No. N/A

P.O. Box 53999, Phoenix, Az. 85072-2034 (Address) Expiration Date N/A

4. Identification of System Diesel Generator (DG), ASME Section III Class 3

5. (a) Applicable Construction Code Section III ND 19 74 Edition, W '75 Addenda, N/A Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Neles-Jamesbury	NO-S23525-01A	N/A	DGAHCV0009	1993	Replacement	Yes

7. Description of Work Replaced valve

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

73DP-9ZZ17

FORM NIS-2 (Back)

9. Remarks Work Order 230255, origionally prepared under "Legacy Work Order" number 00-919271.

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 _____

Signed _____ ISI ENGINEER Date 1-17-01
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 3-14-00 to 1-17-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 01/17/01

73DP-9ZZ17

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2SI092H002 2. Code Class SECTION III Subsection NF Class 3

3. Item Description 1 KIP SNUBBER

4. N-5 Package Number 2CH08-1B 5. W.O. Number 234213

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

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

8. Work Description Replace Snubber

9. ☐ ISI Flaw NDE Method of Flaw Detection

Report Number

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like repalcement

11. Repair/Replacement Work Organization APS

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

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

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

15. Preservice Inspection Required. ☐ YES ☑ NO

Initial 3-8-2001 Date If required, include a step in the W.O. to perform Preservice Inspection.

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

Initial 3-8-2001 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 3-8-2001 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 3-8-2001 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2SI092H002	N/A	4200	N/A	N/A

19. Planner Signature 3-8-2001 Date Print Name David Goodlet

20. ISI Engineer Signature 3/23/01 Date Print Name R. P. INDAP

21. ANII Signature 3-23-01 Date Print Name Robert Hogstram

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) Date 02/16/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 234213 (Work Order Number)

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 (Address) Expiration Date N/A

4. Identification of System "SI" Safety Injection

5. (a) Applicable Construction Code Subsect. NF Class 3 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
1 Kip Snubber	Pacific Scientific	4200	N/A	2SI092H002	1978	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#234213 Removed snubber Serial number 9373 and replaced it with serial number 4200

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 RPmdap, ISI Engineer (Owner or Owner's Designee, Title) Date 6-05-2001

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 3-23-01 to 6-5-01, 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 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2SI119H001 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 3 KIP SNUBBER
4. N-5 Package Number 2SI06-4 5. W.O. Number 234291
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures.This a like for like repalcement

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

15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 3-8-2001 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
Initial 3-8-2001 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 3-8-2001 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3-8-2001 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2SI119H001	N/A	20221	N/A	N/A

19. Planner Signature 3-8-2001 Date Print Name David Goodlet
20. ISI Engineer Signature 3/23/01 Date Print Name R. P. INDAP
21. ANII Signature 3-23-01 Date Print Name Robert Hogstram

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

1. Owner Arizona Public Service Company, et. al. (Name) Date 02/16/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 234291 (Work Order Number)

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 (Address) Expiration Date N/A

4. Identification of System "SI" Safety Injection

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
3Kip Snubber	Pacific Scientific	20221	N/A	2SI119H001	1982	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#234291 Removed snubber Serial number 7164 and replaced it with serial number 20221

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 6-05-2001

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 3-23-01 to 6-5-01, 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 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2SI129H012 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 3 KIP SNUBBER
4. N-5 Package Number 2SI07-10 5. W.O. Number 234409
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like replacement

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

15. Preservice Inspection Required. ☑ YES ☐ NO
Initial 3-8-2001 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
Initial 3-8-2001 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 3-8-2001 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3-8-2001 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2SI129H012	N/A	25362	N/A	N/A

19. Planner Signature 3-8-2001 Date Print Name David Goodlet
20. ISI Engineer Signature 3/23/01 Date Print Name R.P. INDAP
21. ANII Signature 3-23-01 Date Print Name Robert Hogstram

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) Date 02/16/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 234409 (Work Order Number)

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 (Address) Expiration Date N/A

4. Identification of System "SI" Safety Injection

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
3 Kip Snubber	Pacific Scientific	25362	N/A	2SI129H012	1982	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#234409 Removed snubber Serial number 7321 and replaced it with serial number 25362

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 Phoday, ISI Engineer (Owner or Owner's Designee, Title) Date 6-5-2001

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 3-23-01 to 6-5-01, 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 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2SG203H004 TOP 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 35 KIP SNUBBER
4. N-5 Package Number 2AF02-2 5. W.O. Number 235144
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like repalcement

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

15. Preservice Inspection Required. ☐ YES ☑ NO
Initial 3-8-2001 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
Initial 3-8-2001 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 3-8-2001 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3-8-2001 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2SG203H004 TOP	N/A	12932	N/A	N/A

19. Planner Signature 3-8-2001 Date Print Name David Goodlet
20. ISI Engineer Signature 3/23/01 Date Print Name R. P. INDAP
21. ANII Signature 3-23-01 Date Print Name Robert Hogstram

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. (Name) Date 02/16/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 235144 (Work Order Number)

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 (Address) Expiration Date N/A

4. Identification of System "SG" Steam Generator

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
35 Kip Snubber	Pacific Scientific	12932	N/A	2SG203H004T	1983	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#235144 Removed snubber Serial number 6306 and replaced it with serial number 12932

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 6-05-2001

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 3-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Commissions NB 9685 "N" "I" Az 264

Inspector's Signature — National Board, State, Province, and Endorsements

Date 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIBUV0659 2. Code Class ASME SECTION III CLASS 2

3. Item Description 4" SOV VALVE

4. N-5 Package Number 2SI09-3 5. W.O. Number 2333124

6. Original Construction Code Edition 1974 EDITION & 1976 SUMMER ADDENDA

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

8. Work Description REPLACE VALVE INTERNALS , (MAIN DISC) DUE TO VALVE HAVING UNACCEPTABLE SLOW STROKING TIMES. REMOVED INTERNALS FROM SPARE VALVE SER. 7 / PO 60181395, AND INSTALLED IN THIS VALVE , (MAIN DISC SER NO. 55)

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 of the pressure retaining part. Replacement is for improving operability RPIndap 1/24/02

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1976 SUMMER 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

RCO Initial 1/24/02 Date If required, include a step in the W.O. to perform Preservice Inspection.

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

RCO Initial 1/24/02 Date If required, include a step in the W.O. for ISI & ANII Inspection.

RCO Initial 1/24/02 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

RCO Initial 1/24/02 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
MAIN DISC	300328-1	55	1G7615	

19. Planner Gerald Osmundson (Signature) 1/24/02 (Date) Print Name GERALD OSMUNDSON

20. ISI Engineer RPIndap (Signature) 1/24/02 (Date) Print Name R. P. INDAP

21. ANII R.G. Hogstrom (Signature) 1-24-02 (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 12/17/01

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2333124 (Work Order Number)

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

Authorization No. N/A

5801S. WINTERSBURG RD, TONOPAH,ARIZONA (Address) Expiration Date N/A

4. Identification of System SI , ASME SECTION III , CLASS 2

5. (a) Applicable Construction Code SECTION III CL 2 19 74 Edition, S,76 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
MAIN DISC	TARGET ROCK	55	N/A	2JSIBUV0659	1979	Replacement	NO

7. Description of Work REPLACE VALVE INTERNALS WITH SPARE VALVE INTERNALS

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks REPLACED VALVE INTRENALS (MAIN DISC) DUE TO UNACCEPTABLE VALVE STROKING TIMES

W.O. 2333124

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. Browning RLB (Owner or Owner's Designee, Title) Date 4/9/02

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 1-24-02 to 4-9-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 4-9-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSGEV026 2. Code Class ASME III, CLASS 2

3. Item Description 2" KEROTEST GLOBE VALVE

4. N-5 Package Number 2SG01-1A 5. W.O. Number 2336022

6. Original Construction Code Edition 1974 EDITION, SUMMER 1976 ADDENDA

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

8. Work Description Weld replacement of valve.

9. ☐ ISI Flaw NDE Method of Flaw Detection

Report Number

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The valve replacement is to correct seat wear.

11. Repair/Replacement Work Organization PVNGS maintenance department.

12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'76 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) 01/22/02 (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) 01/22/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 01/22/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 01/22/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2PSGEV026	ARZ-D-215164-(2)	E522R-1-2	NA	634930-0001

19. Planner [signature] (Signature) 2-1-02 (Date) Print Name David Goodlet

20. ISI Engineer [signature] (Signature) 2-1-02 (Date) Print Name Ramakant Indap

21. ANII [signature] (Signature) 2-1-02 (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 04/08/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) WO# 2336022 (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 SG - Feedwater system, wet layup.

5. (a) Applicable Construction Code ASME Class 2 19 74 Edition, S'76 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Kerotest	E522R-1-2	N/A	2PSGEV026	'84	Replacement	Yes

7. Description of Work Replacement of valve.

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

Other ☐ Pressure NOP psi Test Temp. NOT °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# 2336022 for disassembly, inspection and rework of 2" Kerotest valve to correct seat leakage. Valve replacement due to seat wear.

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. Brown Inc RLB ISI ENG (Owner or Owner's Designee, Title) Date 4-15-02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-1-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 4-15-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSIAV450 2. Code Class 2
3. Item Description SHUTDOWN HEAT EXCHANGER "A" TO FUEL POOL ISOLATION VALVE
4. N-5 Package Number 2SI07-3 5. W.O. Number 2370758
6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
7. Original Installation Code Edition ASME SECT. III, CL 2 RPI 2/13/02 1974 EDITION W'75 ADD
8. Work Description REPLACE THE BONNET STUDS AND NUTS PER THE DISPOSITION OF DFWO 2364311

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.
Nickel plated carbon steel studs & nuts are being replaced with corrosion resistant material studs & nuts as a precaution.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
14. ASME Section XI Code/Edition ASME SECT. III, CL 2 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☑ NO
JD (Initial) 02/08/02 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JD (Initial) 02/08/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JD (Initial) 02/08/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JD (Initial) 02/08/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
#1 STUDS	77203-17		CODE - JBW	618364
#3 NUTS	72184-16		CODE - KKB	618364

19. Planner [signature] (Signature) 2-8-02 (Date) Print Name JAMES I. DAVIS
20. ISI Engineer [signature] (Signature) 2/13/02 (Date) Print Name R.P. INDAP
21. ANII [signature] (Signature) 2-13-02 (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 3-27-02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2370758 (Work Order Number)

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

Authorization No. N/A

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 Edition, W75 Addenda,) Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Borg-Warner	44697	1296	2PSIAV450	1979	Repaired	Yes
Bonnet Studs	N/A	N/A	N/A	2PSIAV450	2002	Replacement	No
Bonnet Nuts	N/A	N/A	N/A	2PSIAV450	2002	Replacement	No

7. Description of Work Replace the bonnet studs and nuts per the disposition of DFWO 2364311.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 2370758 replaced the bonnet studs and nuts to a non-corrosive material per the disposition to DFWO 2364311. This work was performed because of leakage and the valve cannot be isolated for gasket or packing replacement.

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 R Pondarp, Consulting Met. Engineer (Owner or Owner's Designee, Title) Date 3/27/02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-13-02 to 3-28-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 3-28-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSIBV454 2. Code Class 2
3. Item Description SHUTDOWN HEAT EXCHANGER "A" TO FUEL POOL ISOLATION VALVE
4. N-5 Package Number 2SI07-3 5. W.O. Number 2370759
6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
7. Original Installation Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD RPI 2/13/02
8. Work Description REPLACE THE BONNET STUDS AND NUTS PER THE DISPOSITION OF DFWO 2364311

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.
Nickel plated carbon steel studs & nuts are being replaced with corrosion resistant mat. studs & nuts as a precaution. RPI 2/13/02

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
14. ASME Section XI Code/Edition ASME SECT. III, CL 2 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☑ NO
JD (Initial) 02/08/02 (Date) If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☑ NO
JD (Initial) 02/08/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
JD (Initial) 02/08/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JD (Initial) 02/08/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
1 Studs	77203-17		CODE-JBW	618366-0002
nuts 3 (5 EA)	72184-16		CODE-KKB	618366-0004
nuts 3 (9 EA)	72184-16		CODE-1YH	618366-0004

19. Planner [signature] Signature 2-8-02 Date Print Name JAMES I. DAVIS
20. ISI Engineer [signature] Signature 2/13/02 Date Print Name R.P. INDAP
21. ANII [signature] Signature 2-13-02 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 4-5-02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2370759 (Work Order Number)

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

Authorization No. N/A

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 Edition, W75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Borg-Warner	44698	1297	2PSIBV454	1979	Repaired	Yes
Bonnet Studs	N/A	N/A	N/A	2PSIBV454	2002	Replacement	No
Bonnet Nuts	N/A	N/A	N/A	2PSIBV454	2002	Replacement	No

7. Description of Work Replace the bonnet studs and nuts per the disposition of DFWO 2364311.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 2370759 replaced the bonnet studs and nuts to a non-corrosive material per the disposition to DFWO 2364311. This work was performed because of leakage and the valve cannot be isolated for gasket or packing replacement.

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 R P Nolan, Consulting Metallurgical Engineer (Owner or Owner's Designee, Title) Date 4/5/02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-13-02 to 4-5-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R A Fortune (Inspector's Signature) Commissions NB 9685 ANIC Az 264 (National Board, State, Province, and Endorsements)

Date 4-5-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSIAFE0338 2. Code Class ASME III CLASS 2 1974 w/W75

3. Item Description Containment Spray Pump "A" Discharge Flow Element

4. N-5 Package Number 2-SI08-03 5. W.O. Number 2384999

6. Original Construction Code Edition ASME Sect. III Class 2 1974 W/ Winter '75 Addenda

7. Original Installation Code Edition ASME Sect. III Class 2 1974 W/ Winter '75 Addenda

8. Work Description Remove flow element and approximately 2 foot of upstream piping, install new flange, spool, and annubar IAW DMWO 2316467

9. ☐ ISI Flaw NDE Method of Flaw Detection

Report Number

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

Replacement is IAW DMWO 2316467. Mod. is to replace existing flow orifice and replace with annubar to minimize head loss. RPI 2/12/02

11. Repair/Replacement Work Organization Arizona Public Service Company

12. Replacement Item Construction or reconciled Code/Edition ASME Sect. III Class 2 1974 W/ Winter '75 Addenda

13. Repair/Replacement Activity Construction Code/Edition ASME Sect III Cl 2 1974 w/ W '75 Ad,Code Case N-416-1

14. ASME Section XI Code/Edition 1992 Edition and '92 Addenda

15. Preservice Inspection Required. ☑ YES ☐ NO

MEM Initial 2/12/02 Date — If required, include a step in the W.O. to perform Preservice Inspection.

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

MEM Initial 2/12/02 Date — If required, include a step in the W.O. for ISI & ANII Inspection.

MEM Initial 2/12/02 Date — 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

MEM Initial 2/12/02 Date — 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
Flanged Pipe Section		13689.2.1		00616995-0001
Annubar Flow Elemt		13689.1.1		00616995-0001
10" FLANGE			AZP	00616994-0001

19. Planner Glenn E. Moore Signature 2/12/02 Date Print Name Glenn E. Moore

20. ISI Engineer R.P. Indap Signature 2/12/02 Date Print Name R. P. INDAP

21. ANII Robert Hogstrom Signature 2-12-02 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 02/08/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2384999 (Work Order Number)

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

Authorization No. N/A

P.O. Box 53999, Phoenix, Arizona 85354-7529 (Address) Expiration Date N/A

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

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

(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 74 Edition, W'75 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Flanged Pipe Section	Dietrich Standard	13689.2.1	N/A	2JSIAFE0338	2002	Replacement	Yes
Annubar Flow Elemt	Dietrich Standard	13689.1.1	N/A	2JSIAFE0338	2002	Replacement	Yes

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

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

Other ☐ Pressure _____ psi Test 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 Flow element 2JSIAFE0338 to be removed along with upstream flange and approximately 2 feet of piping. This will be replaced with a new flange and spool assembly containing an annubar element.

CERTIFICATE OF COMPLIANCE

We certify that the statements made in the report are correct and this replacement (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], Consulting Metallurgical Engineer (Owner or Owner's Designee, Title) Date 4-5-02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-12-02 to 4-5-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB 9685 ANIC AZ 264 (National Board, State, Province, and Endorsements)

Date 4-5-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2PSGEV642 2. Code Class ASME III Class 2

3. Item Description 8" Anchor Darling Check Valve

4. N-5 Package Number 2SG01-1A 5. W.O. Number wo# 2403895

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 Disassemble check valve for inspection. Weld build-up to the 8 mil deep scratch in pressure seal gasket sealing surface caused during disassembly. Repair of damage caused by debri (⅛" dia by ⅛" deep approx.) on bonnet.

9. ☐ ISI Flaw NDE Method of Flaw Detection

Report Number

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Damage (the scratch) is during disassembly. ~~No service induced damage.~~ RPIndap 4/5/02. The damage on the bonnet is due to debri caught between body & bonnet.

11. Repair/Replacement Work Organization APS site maintenance group

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) 04/05/02 (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) 04/05/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 04/05/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 04/05/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2PSGEV642	N/A	2N1797	2176F SN12	N/A

19. Planner [signature] (Signature) 4-5-02 (Date) Print Name David Goodlet

20. ISI Engineer RPIndap (Signature) 4/5/02 (Date) Print Name Ramakant Indap

21. ANII [signature] (Signature) 4-5-02 (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 04/05/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) WO# 2403895 (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 SG - feedwater line

5. (a) Applicable Construction Code ASME Class 2 19 74 Edition, S'1975 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Anchor/Darling	2N1797	N/A	2PSGEV642	'80	Repaired	Yes

7. Description of Work Weld build-up to scratch in valve body & bonnet caused during disassembly.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO# 2403895 for check valve 2PSGEV642. Weld build-up to valve body & bonnet. Debris in valve caused damage during disassembly. Approx 8 mil deep scratch in gasket sealing surface and approx. 1/8" deep depression x 1/8" diameter in bonnet.

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], Consulting Metallurgical Engineer (Owner or Owner's Designee, Title) Date 4/10/02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 4-5-02 to 4-10-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] Inspector's Signature

Commissions NB 9685 "ANIC" Az 264 (National Board, State, Province, and Endorsements)

Date 4-10-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MDGAE05 2. Code Class ASME III, CLASS 3
3. Item Description DIESEL GENERATOR JACKET WATER COOLER
4. N-5 Package Number 2DG01-2 5. W.O. Number 2420356
6. Original Construction Code Edition ASME SECTION III, CLASS 3 1974, SUMMER 1976 ADDENDA
7. Original Installation Code Edition ASME SECTION III CLASS 3 1974, WINTER 1975 ADDENDA
8. Work Description Weld build up of corroded areas on the Jacket Water Cooler 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 the minimum wall thickness of cover due to corrosion caused by holiday in the coatings. Repaired areas to be coated with belzona, which has been proven to protect the surface of thecoolers.

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 SECTION III 1974 EDITION, WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☑ NO
Initial 3/22/2002 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
Initial 3/22/2002 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 3/22/2002 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3/22/2002 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A

19. Planner _____ Signature 3/22/2002 Date Print Name _____
20. ISI Engineer _____ Signature 3/22/02 Date Print Name R. P. INDAP
21. ANII _____ Signature 3-22-02 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 03/21/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2420356 (Work Order Number)

3. Work Performed by ARIZONA PUBLIC SERVICE (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 (Address) Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ASME III CLASS 3 19 74 Edition, S'76 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
dg jacket water cooler	American Standard	9D702	33117	2MDGAE05	1979	Repaired	Yes

7. Description of Work Weld build up of corroded channel head.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WORK ORDER # 2420356

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 R Rindal, Consulting Metallurgical Engineer (Owner or Owner's Designee, Title) Date 3/27/02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-22-02 to 3-27-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature)

Commissions NB 9685 ANIC Az. 264 (National Board, State, Province, and Endorsements)

Date 3-27-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MDGAE04 2. Code Class ASME III, CLASS 3
3. Item Description DIESEL GENERATOR LUBE OIL COOLER
4. N-5 Package Number 2DG01-2 5. W.O. Number 2420360
6. Original Construction Code Edition ASME SECTION III, CLASS 3 1974, SUMMER 1976 ADDENDA
7. Original Installation Code Edition ASME SECTION III CLASS 3 1974, WINTER 1975 ADDENDA
8. Work Description Weld build up of corroded areas on the Lube Oil Cooler 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 the minimum wall thickness of cover due to corrosion caused by holiday in the coatings. Repaired areas to be coated with belzona, which has been proven to protect the surface of thecoolers.

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 SECTION III 1974 EDITION, WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☑ NO
Initial 3/22/2002 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 3/22/2002 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3/22/2002 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-500-19-515-002	N/A	N/A	N/A

19. Planner Signature 3/22/2002 Date Print Name Glenn E. Moore
20. ISI Engineer R P Indap Signature 3/22/02 Date Print Name R. P. Indap
21. ANII Signature 3-22-02 Date Print Name R.L. Hogstrom

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 03/21/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2420360 (Work Order Number)

3. Work Performed by ARIZONA PUBLIC SERVICE (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 (Address) Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ASME III CLASS 3 19 74 Edition, S'76 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
dg lube oil cooler	American Standard	9D2704	33118	2MDGAE04	1979	Repaired	Yes

7. Description of Work Weld build up of corroded channel head

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WORK ORDER # 2420360

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], Consulting Metallurgical Eng. (Owner or Owner's Designee, Title) Date 3/27/02

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-22-02 to 3-27-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature] (Inspector's Signature) Commissions NB 9685 ANIC AZ 264 (National Board, State, Province, and Endorsements)

Date 3-27-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2MDGBE04 2. Code Class ASME SECTION III CLASS 3
3. Item Description DIESEL LUBE OIL COOLER
4. N-5 Package Number 2DG02-8 5. W.O. Number 2420361
6. Original Construction Code Edition ASME SECTION III, CLASS 3,1974, SUMMER 1976 ADD
7. Original Installation Code Edition ASME III, CLASS 3, 1974 WINTER, 1975 ADD
8. Work Description Weld build up of corroded areas on the Lube Oil cooler inlet/outlet covers.

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, repair 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
Initial 3/29/02 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☑ YES ☐ NO
Initial 3/29/02 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 3/29/02 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 3/29/02 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CHANNEL COVER	4-50019-515-002			

19. Planner _____ Signature 3/29/02 Date Print Name Glenn E Moore
20. ISI Engineer _____ Signature 3/29/02 Date Print Name R. P. INDAP
21. ANII _____ Signature 3-29-02 Date Print Name R.G. HOLSTROM

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 03/29/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2420361 (Work Order Number)

3. Work Performed by ARIZONA PUBLIC SERVICE (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 (Address) Expiration Date N/A

4. Identification of System Diesel Generator (DG)

5. (a) Applicable Construction Code ASME III CLASS 3 19 74 Edition, W'75 Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
dg lube oil cooler	American Standard	8C2804	31981	2MDGAE04	1978	Repaired	Yes

7. Description of Work WELD REPAIR OF THE CORRODED CHANNEL HEAD (COVER).

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WORK ORDER #~~2420360~~ 2420361

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 Adam Morrow ISI Engineer Date 4/6/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-29-02 to 4-6-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Robert J Ingram
Inspector's Signature

Commissions NB 9685 ANIC Az 264
National Board, State, Province, and Endorsements

Date 4-6-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0694 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0694	N/A	BS-08609	N/A	02-00323-01

19. Planner [signature] 1-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] 1-31-02 (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0559 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0559	N/A	BS-08613	N/A	00632389-001

19. Planner [signature] 1-29-2002 Print Name DAVID GOODLET
Signature Date
20. ISI Engineer [signature] 1-31-02 Print Name RAMAKANT INDAP
Signature Date
21. ANII [signature] 1-31-02 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0560 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	~~MR/ROS NO.~~
2JSGEPSV0560	N/A	BS-08575	N/A	02633394-1221

19. Planner [signature] 1-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] [illegible] (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0561 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO~~.
2JSGEPSV0561	N/A	BS-08569	N/A	02631950-0001

19. Planner [signature] 1-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] 1-31-02 (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0555 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0555	N/A	BT-01676	N/A	02032401-000

19. Planner [signature] 1-29-2002 Print Name DAVID GOODLET
Signature Date

20. ISI Engineer [signature] 1-31-02 Print Name RAMAKANT INDAP
Signature Date

21. ANII [signature] 1-31-02 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0554 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
4. N-5 Package Number 2SG02-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0554	N/A	BS-08572	N/A	02 02425-001

19. Planner [signature] 1-29-2002 Print Name DAVID GOODLET
Signature Date

20. ISI Engineer [signature] 1-31-02 Print Name RAMAKANT INDAP
Signature Date

21. ANII [signature] 1-31-02 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0691 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0691	N/A	BS-08624	N/A	00332385-000 1

19. Planner [signature] (Signature) 1-29-2002 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 1-31-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) [illegible] (Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0576 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0576	N/A	BS-08627	N/A	00632393-000

19. Planner [signature] 2-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] [illegible] (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0578 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0578	N/A	BS-08601	N/A	00631944-000

19. Planner [signature] 1-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0579 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0579	N/A	BS-08571	N/A	02632407-002

19. Planner [signature] (Signature) 1-29-2002 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 1-31-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 1/31/02 (Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0692 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0692	N/A	BS-08578	N/A	10632381-000.1

19. Planner [signature] (Signature) 1-29-2002 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 1-31-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 1-31-02 (Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0574 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; ~~1290~~ 1315 PSIG 2-7-02
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0574	N/A	BS-08582	N/A	02632333-001

19. Planner [signature] 1-29-2002 (Signature / Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] 1-31-02 (Signature / Date) Print Name RAMAKANT INDAP
21. ANII [signature] 2-1-02 (Signature / Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0573 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0573	N/A	BS-08574	N/A	00631945-000

19. Planner [signature] (Signature) 1-29-2002 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 1-31-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) [illegible] (Date) Print Name ROBERT HOGSTROM

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JSGEPSV0572 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
4. N-5 Package Number 2SG01-1A 5. W.O. Number 2420372
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization 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) 01/29/02 (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) 01/29/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
DMG (Initial) 01/29/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG (Initial) 01/29/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/~~ROS NO.~~
2JSGEPSV0572	N/A	BY-14539	N/A	00632404-2221

19. Planner [signature] (Signature) 1-29-2002 (Date) Print Name DAVID GOODLET
20. ISI Engineer [signature] (Signature) 1-31-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 1-31-02 (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 01/29/02

P.O. Box 53999, Phoenix, Arizona 85072-2034 (Address) Sheet 1 of 3

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2420372 (Work Order Number)

3. Work Performed by PVNGS Maintenance Dept. (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersburg Rd., tONOPAH, Az. 85354-7529 (Address) Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	BY-14539	N/A	2JSGEPSV572	1991	Replacement	Yes
Safety Valve	Dresser	BS-08574	N/A	2JSGEPSV573	1978	Replacement	Yes
Safety Valve	Dresser	BS-08582	N/A	2JSGEPSV574	1978	Replacement	Yes
Safety Valve	Dresser	BS-08578	N/A	2JSGEPSV692	1978	Replacement	Yes
Safety Valve	Dresser	BS-08571	N/A	2JSGEPSV579	1978	Replacement	Yes
Safety Valve	Dresser	BS-08601	N/A	2JSGEPSV578	1980	Replacement	Yes
Safety Valve	Dresser	BS-08627	N/A	2JSGEPSV576	1981	Replacement	Yes

7. Description of Work Replace main steam safety valves with reconditioned spares.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 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 01/29/02

P.O. Box 53999, Phoenix, Arizona 85072-2034 (Address) Sheet 2 of 3

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) 2420372 (Work Order Number)

3. Work Performed by PVNGS Maintenance Dept. (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersburg Rd., tONOPAH, Az. 85354-7529 (Address) Expiration Date N/A

4. Identification of System SG - Main Steam

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	BS-08624	N/A	2JSGEPSV691	1981	Replacement	Yes
Safety Valve	Dresser	BS-08572	N/A	2JSGEPSV554	1978	Replacement	Yes
Safety Valve	Dresser	BT-01676	N/A	2JSGEPSV555	1979	Replacement	Yes
Safety Valve	Dresser	BS-08569	N/A	2JSGEPSV561	1978	Replacement	Yes
Safety Valve	Dresser	BS-08575	N/A	2JSGEPSV560	1978	Replacement	Yes
Safety Valve	Dresser	BS-08613	N/A	2JSGEPSV559	1980	Replacement	Yes
Safety Valve	Dresser	BS-08609	N/A	2JSGEPSV694	1980	Replacement	Yes

7. Description of Work Replace main steam safety valves with reconditioned spares.

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order #2420372 for the replacement of the main steam safety valves 2JSGEPSV0572, 573, 574, 692, 579, 578, 576, 691, 554, 555, 561, 560, 559 & 694. These 14 valves were selected by maintenance engineering following on-line set pressure testing.

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 ISI Engineer Date 4/15/02
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-31-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Inspector's Signature

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

Date April 15, 2002

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0200 2. Code Class ASME III, CLASS 1

3. Item Description PRESSURIZER SAFETY VALVE; DRESSER 31709N; 2460 PSIG

4. N-5 Package Number 2RC03-2 5. W.O. Number 2420482

6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA

7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA

8. Work Description REPLACE VALVE PER W.O.2420482

9. ☐ ISI Flaw NDE Method of Flaw Detection

Report Number

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE VENDOR TESTING. THE REPLACEMENT VALVE IS PART OF ROUTINE MAINTENANCE SN#BS08614.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 1, 1974 ED., S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 1, 1974 ED., W'75 ADD.

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

15. Preservice Inspection Required. ☐ YES ☑ NO

MBN (Initial) 01/30/02 (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) 01/30/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.

MBN (Initial) 01/30/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

MBN (Initial) 01/30/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0200	N/A	BS-08614	N/A	

19. Planner [signature] (Signature) 2-1-02 (Date) Print Name MICHAEL B. NEWELL

20. ISI Engineer [signature] (Signature) 2-1-02 (Date) Print Name RAMAKANT INDAP

21. ANII [signature] (Signature) 2-1-02 (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 02/01/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) W.O.2420482 (Work Order Number)

3. Work Performed by ARIZONA PUBLIC SERVICE (Name) Type Code Symbol Stamp None

Authorization No. N/A

5801 S. WINTERSBURG RD TONOPAH AZ 85354 (Address) Expiration Date N/A

4. Identification of System RC ASME SECTION III CLASS 1

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

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-VALVE	DRESSER	BS08614	N/A	2JRCEPSV200	1979	Replacement	Yes

7. Description of Work VALVE BEING REPLACE/ROTATED AS PART OF ROUTINE MAINTENANC]

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

Other ☐ Pressure ~~2460~~ 4/13/02 psi Test Temp. ~~653~~ 4/13/02 °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. 2420482 VALVE BEING REPLACE AS PART OF ROUTINE MAINTENANCE (SN#BS08614)..

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 Robert Mowrer ISI Engineer Date 4/13/02
Owner or Owner's Designee, Title

R.L. BROWNING RLB ISI ENG 4-15-02

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 2-1-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 4-15-02

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 2JRCEPSV0201 2. Code Class ASME III, CLASS 1
3. Item Description PRESSURIZER SAFETY VALVE; DRESSER 31709N; 2460 PSIG
4. N-5 Package Number 2RC03-2 5. W.O. Number 2420483
6. Original Construction Code Edition ASME III CLASS 1, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACE VALVE PER W.O.2420483.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE VENDOR TESTING. THE REPLACEMENT VALVE IS PART OF ROUTINE MAINTENANCE SN#BS08565.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 1, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 1, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☑ NO
MBN (Initial) 01/30/02 (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) 01/30/02 (Date) If required, include a step in the W.O. for ISI & ANII Inspection.
MBN (Initial) 01/30/02 (Date) 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
MBN (Initial) 01/30/02 (Date) 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
2JRCEPSV0201	N/A	~~BS-08614~~	N/A	
		BS-~~08665~~ 08565	08565	
		BN 4/12/02		

19. Planner [signature] (Signature) 2-1-02 (Date) Print Name MICHAEL B. NEWELL
20. ISI Engineer [signature] (Signature) 2-1-02 (Date) Print Name RAMAKANT INDAP
21. ANII [signature] (Signature) 2-1-02 (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 02/01/02

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

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

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 (Address) W.O. 2420483 (Work Order Number)

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

Authorization No. N/A

5801 S. Wintersburg Rd Tonapah AZ 85354 (Address) Expiration Date N/A

4. Identification of System RC ASME Section III Class 1

5. (a) Applicable Construction Code Sec III Class 1 19 74 Edition, 75'S Addenda, _____ Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV-Valve	Dresser	~~BS-08665~~	N/A	2JRCEPSV201	1978	Replacement	Yes
		BS-08565 BV 4/12/02					

7. Description of Work _____

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

Other ☐ Pressure ~~2460~~ psi 4/13/02 Test Temp. ~~653~~ °F 4/13/02

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FORM NIS-2 (Back)

9. Remarks W.O. 2420483 VALVE BEING REPLACE AS PART OF ROUTINE MAINTENANCE (SN#BS0~~8565~~).. BW 4/12/02
~~BS08665~~
BS-08565

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 Monroe ISI Engineer Date 4/13/02
Owner or Owner's Designee, Title
R.L.Browning RLB ISI Eng 4/15/02

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 2-1-02 to 4-15-02, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[signature]
Inspector's Signature

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

Date 4-15-02