PALO VERDE NUCLEAR GENERATING STATION UNIT 2 INSERVICE INSPECTION REPORT

TENTH REFUELING OUTAGE

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

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COMMERCIAL SERVICE DATE:

09/19/86

REPORT DATE:

07/10/02

ENCLOSURE 1

SECOND 10-YEAR ISI INTERVAL SUMMARY REPORT TENTH REFUELING OUTAGE PALO VERDE NUCLEAR GENERATING STATION UNIT 2

TABLE OF CONTENTS

SECTION	<u>PAGE</u>	2
1.	INTRODUCTION	
2.	EXAMINATION SUMMARY	
3.	EXAMINATION TECHNIQUES2	
4.	ACCESSIBILITY2	
5.	PERSONNEL2	
6.	EQUIPMENT AND MATERIALS	
7.	REPAIRS AND REPLACEMENTS	
	APPENDICES	

APPENDIX

APPENDIX A - Inservice Inspection Summary Report

APPENDIX B - Inservice Inspection Code Limitations

APPENDIX C - Form NIS-1

APPENDIX D - Forms NIS-2

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

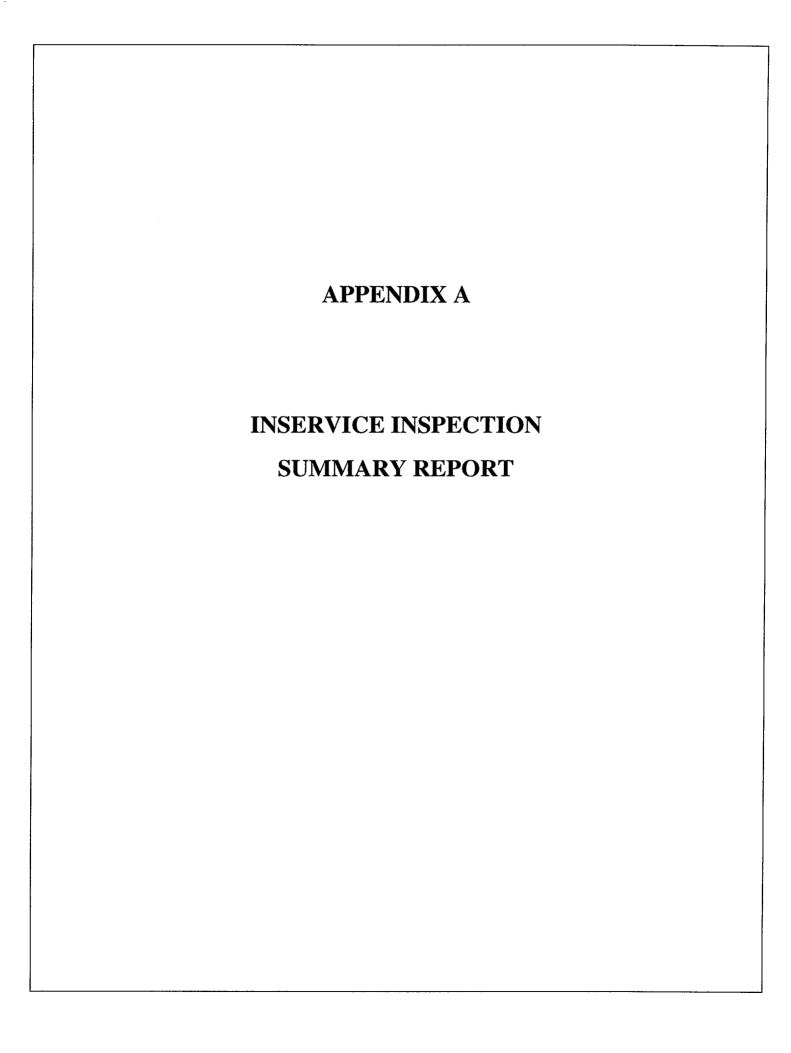
The equipment and materials utilized were certified to the requirements of ASME Section XI. Copies of all certifications are maintained on file.

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

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

CLASS: 1 CATEGORY: B-A Summary No. Component ID 2-002-001 2-1 Workscope Report No. ISI UT-02-076 CLASS: 1 CATEGORY: B-B	ITEM: B1.40 Required: 33% Component Description Reactor Vessel Head-to-Flange Weld Examination Remarks Examined 120° to 240° (15' to 32') ITEM: B2.11 Required: 66%	Complete: 0% System System Description RC Closure Head Complete: 66%
Summary No. Component ID 2-005-008 5-8 Workscope Report No.	Component Description Shell to Top Head Examination Remarks	System System Description RC Pressurizer
SI	Examined 0° to 240° (0' to 19' 5") ITEM: B2.12 Required: 100%* Component Description PZR Upper Shell Long Seam Examination Remarks *1' of long seam *1' of long seam *1' of long seam *1' of long seam *1' of long seam	Complete: 100%* System System Description RC Pressurizer
CLASS: 1 CATEGORY: BD Summary No. 2-005-010 5-10 Workscope Report No. ISI UT-02-027 ISI UT-02-033 ISI UT-02-036 ISI UT-02-039	ITEM: B3.110 Required: 2 Component Description Nozzle to Vessel Weld Examination Remarks Limited UT examinations, see Appendix B	Complete: 2 System System Description RC Pressurizer
Summary No. Component ID 2-005-013 5-13 Workscope Report No. ISI UT-02-031 ISI UT-02-034 ISI UT-02-037 ISI UT-02-040	Component Description Nozzle to Vessel Weld Examination Remarks Limited UT examinations, see Appendix B	System System Description RC Pressurizer
CLASS: 1 CATEGORY: BD Summary No. Component ID 2-005-010 5-10 Workscope Report No. ISI UT-02-067	ITEM: B3.120 Required: 2 Component Description Nozzle Inner Radius Examination Remarks Inner radius	Complete: 2 System System Description RC Pressurizer
Summary No. Component ID 2-005-013 5-13 Workscope Report No. ISI UT-02-066	Component Description Nozzle Inner Radius Examination Remarks Inner radius	System System Description RC Pressurizer

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 Nozzie Partial Penetration Welds	RC Reactor Vessel							
Workscope Report No.	Examination Remarks								
ISI VT-02-410	Reject - Acceptable per CRAI 2334858, no c	hange. 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 heat	ers (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	l							
ISI PT-02-028									
ISI UT-02-061	93% coverage acceptable per code case N-49	90							
ISI UT-02-062									
ISI UT-02-063 ISI UT-02-064	93% coverage acceptable per code case N-49	an							
CLASS: 1 CATEGORY: B-G-1	ITEM: B6.10 Required: 18	Complete: 0							
Summary No. Component ID 2-002-Nuts Nuts	Component Description Reactor Vessel Closure Head Nuts	System System Description RC Closure Head							
Workscope Report No.	Examination Remarks	no closure nead							
ISI MT-02-156	Nuts 18-36, Nut # 18 credited to period 1								
	·	O							
CLASS: 1 CATEGORY: B-G-1	ITEM: B6.30 Required: 18 Component Description	Complete: 18 System System Description							
Summary No. Component ID 2-002-Studs Studs	Reactor Vessel Closure Studs	RC Closure Head							
Workscope Report No.	Examination Remarks	Tio Closule Floud							
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 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							

CLASS: 1	CA*	TEGORY:	R-G-1	ITEM:	B6.180	(continued	n.		
Summary No		Componer			onent Descrip	· ·	"	System	System Description
2-017-Flange	_	Flange Stu			1B Flange Stu			RC	Reactor Coolant Pump 1B
Workscope	Report No	_	143		amination Re			ПО	Heactor Coolant Funip 1B
AUG	VT-02-361	="		-			- 4' f H=111		LIED OO OO
AUG	V1-02-361			16	o Stuas. Supp	emental examina	ation for IEIN	180-27 and	1 IEB 82-02
Summary No	<u>).</u>	Componer	nt ID	Comp	onent Descrip	<u>otion</u>		System	System Description
2-018-Flange	Studs	Flange Stu	ıds	RCP 2	2A Flange Stu	ıds		RC	Reactor Coolant Pump 2A
<u>Workscope</u>	Report No	•		<u>Ex</u>	amination Re	marks			
AUG	VT-02-364			16	Studs. Supp	lemental examina	ation for IEIN	80-27 and	I IEB 82-02
Summary No	<u>.</u>	Componer	nt ID	Comp	onent Descrip	otion		<u>System</u>	System Description
2-019-Flange	Studs	Flange Stu	ds	RCP 2	B Flange Stu	ıds		RC	Reactor Coolant Pump 2B
Workscope	Report No.			<u>Ex</u>	amination Re	marks			
AUG	MT-02-022]		1	of 16 Studs. S	Supplemental exa	mination for	IEB 82-02	
AUG	MT-02-023	}		1	of 16 Studs. S	Supplemental exa	mination for	IEB 82-02	
AUG	MT-02-024	-				Supplemental exa			
AUG	MT-02-025	;		1	of 16 Studs. S	Supplemental exa	mination for	IEB 82-02	
AUG	MT-02-026					Supplemental exa			
AUG	MT-02-027					Supplemental exa			
AUG	MT-02-028					Supplemental exa			
AUG AUG	MT-02-029					Supplemental exa			
AUG	MT-02-030 MT-02-031					Supplemental exa			
AUG	MT-02-031					Supplemental exa Supplemental exa			
AUG	MT-02-032					Supplemental exa			
AUG	MT-02-034					Supplemental exa			
AUG	MT-02-035					Supplemental exa			
AUG	MT-02-036	i				Supplemental exa			
AUG	MT-02-037					Supplemental exa			
AUG	VT-02-403			16	Studs. Supp	lemental examina	tion for IEIN	80-27 and	IEB 82-02
CLASS: 1	CAT	EGORY:	B-G-1	ITEM:	B6.190	Required:	100%	Comple	ete: 100%
Summary No.	-	Componen	<u>t ID</u>		onent Descrip			<u>System</u>	System Description
2-019-Flange		Flange		RCP 2	B Flange Sur	face		RC	Reactor Coolant Pump 2B
Workscope	Report No.			Exa	amination Rer	<u>narks</u>			
ISI	VT-02-414								
CLASS: 1		EGORY:		ITEM:	B6.200	Required:	20	Comple	
Summary No.	•	Component			nent Descrip			System BC	System Description
2-016-Clampi	• •	Clamping F	ng		A Clamping F	•		RC	Reactor Coolant Pump 1A
Workscope 101	Report No.			Exa	mination Ren	<u>narks</u>			
ISI	VT-02-359								
Summary No.	-	Component	_	·	nent Descript	<u> </u>		<u>System</u>	System Description
2-016-Flange		Flange Nuts	S		A Flange Nut			RC	Reactor Coolant Pump 1A
<u>Workscope</u>	Report No.			<u>Exa</u>	mination Ren	narks			
ISI	VT-02-358			16	Nuts				
Summary No.		Component		-	nent Descript			System	System Description
2-017-Clampii	ng Ring	Clamping R	ting	RCP 1	B Clamping R	ling		RC	Reactor Coolant Pump 1B
<u>Workscope</u>	Report No.			<u>Exa</u>	mination Ren	<u>narks</u>			
ISI	VT-02-363								

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

<u>Summary No.</u> <u>Component ID</u> <u>Component Description</u> <u>System Description</u>

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

<u>Summary No.</u> <u>Component ID</u> <u>Component Description</u> <u>System System Description</u>

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

VT-02-367

ISI

Summary No. Component ID Component Description System Description

System Description

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

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 IDComponent DescriptionSystemSystem Description2-005-NutsNutsPZR Manway NutsRCPressurizer-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 IDComponent DescriptionSystem Description2-005-StudsStudsPZR Manway StudsRCPressurizer-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

Windows Pound No.

Workscope Report No. Examination Remarks

ISI VT-02-278 20 Nuts, includes IEB 82-02 supplemental examinations

CLASS: 1 CATEGORY: B-G-2 ITEM: B7.30 (c)	(continued)
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 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 IDComponent DescriptionSystemSystem Description2-003-HL-NutsHL NutsSG1 Hot Leg Manway NutsRCSG #1-Manway

Workscope Report No. Examination Remarks

ISI

VT-02-266

ISI VT-02-279 20 Nuts, includes IEB 82-02 supplemental examinations

Summary No.Component IDComponent DescriptionSystemSystem Description2-003-HL-StudsHL StudsSG1 Hot Leg Manway StudsRCSG #1-Manway

WorkscopeReport No.Examination RemarksAUGMT-02-15020 Studs, IEB 82-02 supplemental examinations. 1 direction

Summary No. Component ID Component Description System System Description

20 Studs, includes IEB 82-02 supplemental examinations

2-004-CL-Nuts CL Nuts SG2 Cold Leg Manway Nuts RC SG #2-Manway

WorkscopeReport No.Examination RemarksISIVT-02-28020 Nuts, includes IEB 82-02 supplemental examinations

<u>Summary No.</u> <u>Component ID</u> <u>Component Description</u> <u>System System Description</u>

2-004-CL-Studs CL Studs SG2 Cold Leg Manway Studs RC SG #2-Manway

WorkscopeReport No.Examination RemarksAUGMT-02-15120 Studs, IEB 82-02 supplemental examinations. 1 directionISIVT-02-26420 Studs, includes IEB 82-02 supplemental examinations

Summary No.Component IDComponent DescriptionSystemSystem Description2-004-HL-NutsHL NutsSG2 Hot Leg Manway NutsRCSG #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

CLASS: 1	CATEGORY:	B-G-2 ITEM:	<i>B7.50</i>	Required:	1	Comple	ete: 1
Summary No.	Component	ID Comp	onent Descriptio	<u>n</u>		System	System Description
2-031-PSV200	PSV200		e Studs and Nuts			RC	Pressurizer Safeties
Workscope Re	port No.	Ex	amination Rema	rks			
	-02-038				2 supplemer	ntal examir	nation of all items
	-02-039		of 16 Nuts				
	-02-040		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				
	-02-046		of 16 Nuts				
	-02-047		of 16 Nuts				
	-02-048		of 16 Nuts				
	-02-049		of 16 Nuts				
	-02-050		of 16 Nuts				
	-02-051		of 16 Nuts				
	-02-052		of 16 Nuts				
	-02-053		of 16 Nuts				
	-02-054		of 8 Studs				
	-02-055		of 8 Studs of 8 Studs				
	-02-056 -02-057		of 8 Studs				
i .	-02-057		of 8 Studs				
	-02-059		of 8 Studs				
	-02-060		of 8 Studs				
	-02-061		of 8 Studs				
	-02-108		of 16 Nuts				
	-02-109		of 16 Nuts				
	-02-110		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				
	-02-114	1	of 16 Nuts				
	-02-115		of 16 Nuts				
	-02-116		of 16 Nuts				
	-02-117		of 16 Nuts				
	-02-118		of 16 Nuts				
	-02-119		of 16 Nuts				
	-02-120		of 16 Nuts				
	-02-12 1 -02-122		of 16 Nuts of 16 Nuts				
	-02-122 -02-123		of 16 Nuts				
1	-02-123 -02-124		of 8 Studs				
	-02-125		of 8 Studs				
	-02-126		of 8 Studs				
	-02-120		of 8 Studs				
	-02-128		of 8 Studs				
	-02-129		of 8 Studs				
	-02-130		of 8 Studs				
	-02-131		of 8 Studs				

CLASS: 1	CATEGORY:	B-G-2 ITEM:	<i>B7.50</i>	(continued)		
Summary No.	Component	LID Comp	onent Descriptio	<u>n</u>	System	System Description
2-031-PSV201	PSV201	Flang	e Studs and Nuts	5	RC	Pressurizer Safeties
Workscope Re	port No.	Ex	camination Rema	rks		
	-02-062	<u></u>	of 16 Nuts * Inc	cludes IEB 82-02 supplemer	ntal examir	nation of all items
AUG MT	-02-063		of 16 Nuts	• •		
	-02-064	1	of 16 Nuts			
	-02-065	1	of 16 Nuts			
	-02-066		of 16 Nuts			
	-02-067		of 16 Nuts			
	-02-068		of 16 Nuts			
	-02-069		of 16 Nuts			
	-02-070		of 16 Nuts			
1	-02-071		of 16 Nuts			
	-02-072 -02-073		of 16 Nuts of 16 Nuts			
P.	-02-073 -02-074		of 16 Nuts			
	-02-074 -02-075		of 16 Nuts			
	-02-076		of 16 Nuts			
ľ	-02-077		of 16 Nuts			
	-02-078		of 8 Studs			
	-02-079		of 8 Studs			
	-02-080		of 8 Studs			
AUG MT	-02-081	1	of 8 Studs			
AUG MT	-02-082	1	of 8 Studs			
	-02-083	1	of 8 Studs			
	-02-084		of 8 Studs			
	-02-085		of 8 Studs			
	-02-132		of 16 Nuts			
	-02-133		of 16 Nuts			
	-02-134		of 16 Nuts			
	-02-135 -02-136		of 16 Nuts			
	-02-136 -02-137		of 16 Nuts of 16 Nuts			
	·02-137		of 16 Nuts			
	·02-139		of 16 Nuts			
	·02-140		of 16 Nuts			
	02-141		of 16 Nuts			
	02-142		of 16 Nuts			
	02-143		of 16 Nuts			
AUG VT-	02-144	1	of 16 Nuts			
AUG VT-	02-145	1	of 16 Nuts			
	02-146	1	of 16 Nuts			
	02-147		of 16 Nuts			
	02-148		of 8 Studs			
	02-149		of 8 Studs			
	02-150		of 8 Studs			
	02-151 02-152		of 8 Studs			
	02-152 02-153		of 8 Studs of 8 Studs			
	02-153 02-154		of 8 Studs			
	02-155		of 8 Studs			
VI.	100	,	J. 0 01000			

CLASS: 1	CATEGORY:	B-G-2 ITEM:	<i>B7.50</i>	(continued)		
Summary No.	Component	ID Com	oonent Description	<u>on</u>	<u>System</u>	System Description
2-031-PSV202	PSV202	Flang	e Studs and Nut	s	RC	Pressurizer Safeties
Workscope B	Report No.	E	xamination Rema	arks		
	1T-02-086			cludes IEB 82-02 supplemer	ntal examin	ation of all items
AUG M	1T-02-087	•	l of 16 Nuts	••		
AUG M	1T-02-088	•	of 16 Nuts			
AUG M	1T-02-089	•	of 16 Nuts			
AUG M	1T-02-090	•	l of 16 Nuts			
	1T-02-091		l of 16 Nuts			
	1T-02-092		l of 16 Nuts			
	1T-02-093		l of 16 Nuts			
	1T-02-094		of 16 Nuts			
	1T-02-095		of 16 Nuts			
	1T-02-096		of 16 Nuts			
4	1T-02-097		of 16 Nuts			
	1T-02-098		of 16 Nuts			
	1T-02-099		of 16 Nuts			
	MT-02-100		of 16 Nuts			
	1T-02-101 1T-02-102		of 16 Nuts of 8 Studs			
	11-02-102 1T-02-103		of 8 Studs			
	1T-02-103 1T-02-104		of 8 Studs			
	1T-02-10 4 1T-02-105		of 8 Studs			
	1T-02-106		of 8 Studs			
	T-02-107		of 8 Studs			
	1T-02-108		of 8 Studs			
	IT-02-109		of 8 Studs			
	T-02-156	1	of 16 Nuts			
	T-02-157	1	of 16 Nuts			
ISI V	T-02-158	1	of 16 Nuts			
ISI V	T-02-159		of 16 Nuts			
	T-02-160		of 16 Nuts			
	T-02-161		of 16 Nuts			
	T-02-162		of 16 Nuts			
	T-02-163		of 16 Nuts			
	T-02-164		of 16 Nuts			
	T-02-165		of 16 Nuts			
	T-02-166		of 16 Nuts			
l .	T-02-167 T-02-168		of 16 Nuts of 16 Nuts			
	T-02-166 T-02-169		of 16 Nuts			
	T-02-109 T-02-170		of 16 Nuts			
1	T-02-171		of 16 Nuts			
	T-02-172		of 8 Studs			
	T-02-173		of 8 Studs			
	T-02-174		of 8 Studs			
ISI V	T-02-175		of 8 Studs			
ISI V	T-02-176	1	of 8 Studs			
	T-02-177	1	of 8 Studs			
	T-02-178		of 8 Studs			
ISI V	T-02-179	1	of 8 Studs			
1						

CLASS: 1	CATEG	ORY: B	-G-2 ITEM:	B7.50	(continued)			
Summary No	<u>. Co</u>	mponent ID	<u>Com</u>	onent Descripti	<u>on</u>		<u>System</u>	System Description
2-031-PSV20	3 PS	V203	Flang	je Studs and Nu	ts		RC	Pressurizer Safeties
Workscope	Report No.			xamination Rem				
AUG	MT-02-110				cludes IEB 82-02	supplement	tal examir	nation of all items
AUG	MT-02-111			of 16 Nuts				
AUG AUG	MT-02-112 MT-02-113			of 16 Nuts				
AUG	MT-02-113			l of 16 Nuts I of 16 Nuts				
AUG	MT-02-114 MT-02-115			of 16 Nuts				
AUG	MT-02-116			of 16 Nuts				
AUG	MT-02-117			of 16 Nuts				
AUG	MT-02-118			of 16 Nuts				
AUG	MT-02-119		. 1	of 16 Nuts				
AUG	MT-02-120		1	of 16 Nuts				
AUG	MT-02-121			of 16 Nuts				
AUG	MT-02-122			of 16 Nuts				
AUG	MT-02-123			of 16 Nuts				
AUG	MT-02-124			of 16 Nuts				
AUG AUG	MT-02-125 MT-02-126			of 16 Nuts of 8 Studs				
AUG	MT-02-120			of 8 Studs				
AUG	MT-02-128			of 8 Studs				
AUG	MT-02-129			of 8 Studs				
AUG	MT-02-130			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			of 16 Nuts				
AUG	VT-02-181			of 16 Nuts				
AUG	VT-02-182			of 16 Nuts				
AUG AUG	VT-02-183 VT-02-184			of 16 Nuts				
AUG	VT-02-185			of 16 Nuts of 16 Nuts				
AUG	VT-02-186			of 16 Nuts				
AUG	VT-02-187			of 16 Nuts				
AUG	VT-02-188			of 16 Nuts				
AUG	VT-02-189		1	of 16 Nuts				
AUG	VT-02-190		1	of 16 Nuts				
AUG	VT-02-191			of 16 Nuts				
AUG	VT-02-192			of 16 Nuts				
AUG	VT-02-193			of 16 Nuts				
AUG AUG	VT-02-194 VT-02-195			of 16 Nuts of 16 Nuts				
AUG	VT-02-195 VT-02-196			of 8 Studs				
AUG	VT-02-197			of 8 Studs				
AUG	VT-02-198			of 8 Studs				
AUG	VT-02-199			of 8 Studs				
AUG	VT-02-200			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	CATEG	ORY: B-	G-2 ITEM:	B7.60	Required: 2	20	Complet	te: 5
Summary No.	Con	nponent ID	Comp	onent Descriptio	<u>n</u>	<u> </u>	<u>System</u>	System Description
2-017-Seal Ho	ousing Studs S	tuds	RCP 1	IB Seal Cover B	olting	F	RC	Reactor Coolant Pump 1B
Workscope	Report No.		Ex	<u>amination Rema</u>	<u>rks</u>			
ISI	VT-02-257		16	Studs only				

CLASS: 1	CA	TEGORY:	B-G-2	ITEM:	B7.60	(continued	d)		
Summary No.		Componen	<u>t ID</u>		onent Descri			System	System Description
2-018-Seal H	-				2A Seal Cove	Ū		RC	Reactor Coolant Pump 2A
Workscope	Report No			-	amination Re				
ISI	VT-02-215				of 16 Studs of	=			
ISI	VT-02-216				of 16 Studs of	•			
ISI	VT-02-217				of 16 Studs of	•			
ISI	VT-02-218				of 16 Studs of	=			
ISI	VT-02-219				of 16 Studs of	•			
ISI	VT-02-220				of 16 Studs of	•			
ISI	VT-02-221				of 16 Studs of	•			
ISI	VT-02-222				of 16 Studs of	=			
ISI	VT-02-223				of 16 Studs of	-			
ISI	VT-02-224				of 16 Studs of	-			
ISI	VT-02-225				of 16 Studs of	-			
ISI	VT-02-226				of 16 Studs of	•			
ISI	VT-02-227				of 16 Studs of	•			
ISI	VT-02-228				of 16 Studs of	-			
ISI	VT-02-229				of 16 Studs of	-			
ISI	VT-02-230			1	of 16 Studs o	nly			
Summary No.		Component	LID	Comp	onent Descri	otion		<u>System</u>	System Description
2-019-Seal Ho	using Studs	Studs		RCP 2	B Seal Cove	r Bolting		RC	Reactor Coolant Pump 2B
Workscope	Report No.	<u>.</u>		Ex	amination Re	marks			
ISI	VT-02-258			16	Studs and N	luts			
ISI	02-2001			V	Γ16 Studs				
CLASS: 1	CAT	TEGORY:	B-G-2	ITEM:	B7.70	Required:	18	Comple	ete: 17
Summary No.		Component	<u>: ID</u>	Comp	onent Descrip	<u>otion</u>		<u>System</u>	System Description
2-022-V652		UV-652		Valve	Bolts, Studs,	and Nuts		SI	Shutdown Cooling Loop 2
<u>Workscope</u>	Report No.	ì		Ex	amination Re	<u>marks</u>			
ISI	VT-02-058								
Summary No.		Component	: <u>ID</u>	Comp	onent Descrip	otion		<u>System</u>	System Description
2-023-V235		V-235		Valve	Bolts, Studs,	and Nuts		SI	SI 1A
<u>Workscope</u>	Report No.	,		Exa	amination Re	<u>marks</u>			
ISI	VT-02-237								
Summary No.		Component	: <u>ID</u>	Compo	onent Descrip	<u>otion</u>		System	System Description
2-023-UV634		UV-634		Valve	Bolts, Studs,	and Nuts		SI	SI 1A
Workscope	Report No.			Exa	amination Re	marks			
ISI	VT-02-236				***************************************	· 			
Summary No.			·ID	Comp	onent Descrip	tion		System	System Description
2-024-V245		Component V-245	<u>110</u>		Bolts, Studs,			SI	SI 1B
	5				, ,			31	31 15
Workscope	Report No.			EX	amination Re	marks			
ISI	VT-02-270								

CLASS: 1 Summary No. 2-024-V644 Workscope			Component Valve Bolts, Examina	Description	d Nuts	<u>System</u> SI	System Description SI 1B
Summary No. 2-025-V217 <u>Workscope</u> ISI	Report No.	=	Component Valve Bolts, Examina		d Nuts	<u>System</u> SI	System Description SI 2A
Summary No. 2-026-V541 <u>Workscope</u> ISI	Report No. VT-02-320	=	Component Valve Bolts, Examina	-	l Nuts	<u>System</u> SI	System Description SI 2B
Summary No. 2-026-V624 <u>Workscope</u> ISI	Report No. VT-02-321	-	Component Valve Bolts, Examina		Nuts	<u>System</u> SI	System Description SI 2B
Summary No. 2-027-V100E <u>Workscope</u> ISI	Report No. VT-02-371		Component Valve Bolts, Examina		l Nuts	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-028-V100F <u>Workscope</u> ISI	Report No. VT-02-368	=	Component Valve Bolts, Examina		l Nuts	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-033-V235 <u>Workscope</u> ISI	Report No. VT-02-312	=	Component Valve Bolts, Examina		i Nuts	<u>System</u> RC	System Description Drain Line 1B
Summary No. 2-033-V335 <u>Workscope</u> ISI	Report No.		<u>Component</u> Valve Bolts, <u>Examina</u>		l Nuts	<u>System</u> RC	System Description Drain Line 1B
Summary No. 2-034-V233 <u>Workscope</u> ISI	Report No. VT-02-322	=	Component Valve Bolts, Examina		i Nuts	<u>System</u> RC	System Description Drain Line 2A
Summary No. 2-034-V333 <u>Workscope</u> ISI	Report No. VT-02-323		Component Valve Bolts, Examina		l Nuts	<u>System</u> RC	System Description Drain Line 2A

CLASS: 1 Summary No. 2-039-V522 Workscope		=	Valve	B7.70 conent Description Bolts, Studs, and camination Remain	d Nuts)	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Summary No. 2-039-V957		Component ID V-957	Valve	conent Description Bolts, Studs, an	d Nuts		<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
<u>Workscope</u> ISI	Report No VT-02-313	='	ΞX	camination Rema	<u>uks</u>			
Summary No. 2-040-V532		Component ID V-532		oonent Description Bolts, Studs, an	_		<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 2
Workscope ISI	Report No VT-02-324	₹	<u>Ex</u>	camination Rema	<u>ırks</u>			
CLASS: 1	CA	TEGORY: B-H	ITEM:	B8.20	Required:	<i>0</i> *	Comple	ete: 0*
Summary No. 2-005-001 Workscope ISI	Report No MT-02-018	=	Suppo <u>Ex</u>	oonent Description ort Skirt camination Rema Reexamine area	ırks		System RC	System Description Pressurizer
ISI	UT-02-056	3	*F	Reexamine indica	ations at 19' to a	26'. Limited l	JT examin	ations see Appendix B
ISI	UT-02-057	•	*F	Reexamine indica	ations at 19' to :	26'. Reject –	Acceptabl	e per MNCR 93-RC-2027
ISI ISI	UT-02-058 UT-02-059			Reexamine indica Reexamine indica				
CLASS: 1 Summary No. 2-006-016-00 Workscope ISI ISI	•)	Outlet <u>Ex</u> No	B9.11 & B9.1 conent Description t Nozzle to Extendamination Remains corredit for surface cludes long seam	<u>n</u> sion Piece Wel <u>rks</u> e exam on long	d	Comple System RC	ete: 17 System Description RCS Primary Piping
Summary No.		Component ID	Comp	onent Descriptio	<u>n</u>		System	System Description
2-006-017-00		17-1		Nozzle to Exten		d	RC	RCS Primary Piping
<u>Workscope</u> ISI	Report No. MT-02-020	=		camination Rema credit for surfac		seam		
ISI	UT-02-116			cludes long seam	_	Seam		
Summary No. 2-006-018-00 Workscope ISI ISI		•	Outlet <u>Ex</u> Inc	conent Description Nozzle to Extentamination Remaination Remaination Remaination Remaination Seamoludes long seamoludes long seamoludes long seamoludes	sion Piece Wel r <u>ks</u>	d	System RC	System Description RCS Primary Piping
Summary No.		Component ID	Comp	onent Descriptio	<u>n</u>		System	System Description
2-006-019-00		19-1	•	Nozzle to Exten		d	RC	RCS Primary Piping
Workscope	Report No.			amination Rema				
ISI	MT-02-021			credit for surfac		seam		
ISI	UT-02-079		Inc	cludes long seam	<u> </u>			

CLASS: 1 Summary No 2-021-014 Workscope ISI ISI		•	ITEM: B9.11 & B9.12 (continued) Component Description 16" Sch 160 Elbow-to-Pipe Examination Remarks	<u>System</u> RC	System Description Shutdown Cooling Loop 1
Summary No. 2-021-015 <u>Workscope</u> ISI	Report No PT-02-060 UT-02-126)	Component Description 16" Sch 160 Pipe-to-Elbow Examination Remarks	<u>System</u> RC	System Description Shutdown Cooling Loop 1
Summary No. 2-022-001 <u>Workscope</u> ISI ISI	Report No PT-02-016 UT-02-007	3	Component Description 16" Pipe to Pipe Examination Remarks	<u>System</u> RC	System Description Shutdown Cooling Loop 2
Summary No. 2-022-007-00 Workscope ISI ISI ISI		,)	Component Description Nozzle-to-16" Sch Pipe Examination Remarks	<u>System</u> RC	System Description Shutdown Cooling Loop 2
Summary No. 2-022-017 <u>Workscope</u> ISI	Report No PT-02-041 UT-02-052	-	Component Description 16" Sch 160 Pipe-to-Elbow Examination Remarks	<u>System</u> SI	System Description Shutdown Cooling Loop 2
Summary No. 2-023-006 <u>Workscope</u> AUG AUG		Component ID 23-6	Component Description Pipe to Valve	<u>System</u> SI	System Description SI 1A
Summary No. 2-024-006 <u>Workscope</u> AUG AUG	Report No. PT-02-004 UT-02-001 UT-02-003		Component Description Pipe to Valve Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 1B
Summary No. 2-024-014 <u>Workscope</u> ISI ISI	Report No. PT-02-037 UT-02-045 UT-02-050		Component Description Valve to Pipe Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 1B

CLASS: 1 Summary No. 2-024-016 Workscope ISI ISI	CATEGORY: Component 24-16 Report No. PT-02-038 UT-02-046 UT-02-048	,	<u>System</u> SI	System Description SI 1B
Summary No. 2-024-019 Workscope ISI ISI	Component 24-19 Report No. PT-02-034 UT-02-047 UT-02-051	Component Description Valve to Pipe Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 1B
Summary No. 2-025-001 <u>Workscope</u> ISI	<u>Component</u> 25-1 <u>Report No.</u> PT-02-058 UT-02-109	Component Description 14" Sch 160 Elbow-to-RC Loop 2A Safe End Examination Remarks	<u>System</u> SI	System Description SI 2A
Summary No. 2-025-004 Workscope ISI ISI	Component 25-4 Report No. PT-02-072 UT-02-110 UT-02-113	Component Description Valve to Pipe Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 2A
Summary No. 2-025-006 Workscope ISI ISI	Component 25-6 Report No. PT-02-052 UT-02-111 UT-02-114	Component Description Pipe to Valve Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 2A
Summary No. 2-025-013-010 Workscope ISI ISI	Component 13-10 Report No. UT-02-112 UT-02-119 UT-02-122	Component Description SI Nozzle-to-Safe End Weld Examination Remarks No credit, surface exam required	<u>System</u> SI	System Description SI 2A
Summary No. 2-026-006 <u>Workscope</u> AUG AUG	Component 26-6 Report No. PT-02-003 UT-02-002 UT-02-004	Component Description Pipe to Valve Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 2B

CLASS: 1 Summary No. 2-026-017 Workscope ISI ISI		5 •	ITEM: B9.11 & B9.12 (continued) Component Description Valve to Pipe Examination Remarks Limited UT examinations, see Appendix B	<u>System</u> SI	System Description SI 2B
Summary No. 2-029-001 <u>Workscope</u> ISI ISI	Report No PT-02-026 UT-02-124	- 5 3	Component Description 4" Sch 160 Pipe-to Pressurizer Nozzle Examination Remarks supplemental exam	<u>System</u> RC	System Description Combined Pressurizer Spray
Summary No. 2-031-009 <u>Workscope</u> ISI ISI	Report No PT-02-029 UT-02-028	-	Component Description Pressurizer Safe End to 6" Sch 160 Elbow Examination Remarks	System RC	System Description Pressurizer Safeties
Summary No. 2-031-010 <u>Workscope</u> ISI ISI	Report No PT-02-027 UT-02-029		Component Description 6" Sch 160 Elbow-to-Pipe Examination Remarks	<u>System</u> RC	System Description Pressurizer Safeties
Summary No. 2-036-075 Workscope ISI ISI	Report No PT-02-070 UT-02-106	-	Component Description 16" Sch 160 Circumferential Head Weld Examination Remarks	<u>System</u> RC	System Description Letdown Line
CLASS: 1	CA	TEGORY: B-J	ITEM: B9.21 Required: 31	Comple	ete: 29
Summary No. 2-027-008 Workscope ISI	Report No. PT-02-007		Component Description Pipe to Valve <u>Examination Remarks</u>	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-010 <u>Workscope</u> ISI	Report No. PT-02-006		Component Description Pipe to Elbow Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-016 Workscope ISI	Report No. PT-02-008	-	Component Description Valve to Elbow Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-028-009 <u>Workscope</u> ISI	Report No. PT-02-009		Component Description Pipe to Valve <u>Examination Remarks</u>	<u>System</u> RC	System Description Pressurizer Spray 1B

CLASS: 1 CA Summary No. 2-028-011 Workscope Report No. ISI PT-02-010	Component ID 28-11	ITEM: B9.21 (continued) Component Description Valve to Pipe Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-011-011 <u>Workscope</u> <u>Report No.</u> ISI PT-02-040		Component Description Spray Nozzle-to-Safe End Weld Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-020 Workscope Report No ISI PT-02-011	='	Component Description Valve to Pipe Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-030-005 Workscope Report No ISI PT-02-074	=	Component Description 2" Sch 160 Pipe-to-Tee Examination Remarks	<u>System</u> CH	System Description AUX. Pressurizer Spray
Summary No. 2-030-006 <u>Workscope</u> <u>Report No</u> ISI PT-02-073	-	Component Description 2" Sch 160 Tee-to-Pipe Examination Remarks	<u>System</u> CH	System Description AUX. Pressurizer Spray
Summary No. 2-033-001 Workscope Report No ISI PT-02-048	-	Component Description Safe End to Pipe Examination Remarks	<u>System</u> RC	System Description Drain Line 1B
Summary No. 2-033-005 <u>Workscope</u> Report No. ISI PT-02-049		Component Description Elbow-to-2" Sch160 Pipe Examination Remarks	System RC	System Description Drain Line 1B
Summary No. 2-033-010-018 <u>Workscope</u> Report No. ISI PT-02-051		Component Description Drain Nozzle-to-Safe End Weld Extension Piece Examination Remarks	<u>System</u> RC	System Description Drain Line 1B Weld
Summary No. 2-036-025 Workscope Report No. ISI PT-02-065		Component Description 2" Sch 160 Pipe-to-Elbow Examination Remarks	System RC	System Description Letdown Line
Summary No. 2-036-026 Workscope Report No. ISI PT-02-066		Component Description 2" Sch 160 Elbow-to-Pipe Examination Remarks	<u>System</u> RC	System Description Letdown Line

CLASS: 1 CA Summary No. 2-036-043 Workscope Report No. ISI PT-02-06	Component ID 36-43	ITEM: B9.21 (continued) Component Description Pipe to Elbow Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-044 Workscope Report No. ISI PT-02-06		Component Description 2" Sch 160 Elbow-to-Pipe Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-045 Workscope Report No. ISI PT-02-06	-	Component Description 2" Sch 160 Pipe-to-Elbow Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-080 Workscope Report No. ISI PT-02-07		Component Description 2" Sch 160 Pipe-to-Elbow Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-037-029 Workscope Report No. ISI PT-02-05		Component Description 3" Sch 160 Elbow-to-Pipe Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-030 Workscope Report No. ISI PT-02-05		Component Description 3" Sch 160 Pipe-to-Elbow Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-032 Workscope Report No. ISI PT-02-05		Component Description 3" Sch 160 Pipe-to-Concentric Reducer Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-033 Workscope Report No. ISI PT-02-05		Component Description 2" Sch 160 Concentric Reducer-to-Pipe Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-034 Workscope Report No. ISI PT-02-05		Component Description 2" Sch 160 Pipe-to-Safe End Loop 2A Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-038-001 <u>Workscope</u> <u>Report No.</u> ISI PT-02-06	-	Component Description Sweepolet-to-Pipe Examination Remarks	<u>System</u> RC	System Description Drain Line Loop 1

CLASS: 1 CATEGORY: B-J ITEM: B9.21 (continued) System System Description Summary No. Component ID Component Description 39-12 3" Sch 160 Pipe-to-Elbow SI HPSI Long Term 2-039-012 Recirculation Loop 1 **Examination Remarks** Workscope Report No. ISI PT-02-013 UT-02-022 ISI Summary No. Component ID Component Description System System Description 39-13 3" Sch 160 Elbow-to-Pipe 21 **HPSI Long Term** 2-039-013 Recirculation Loop 1 **Examination Remarks** Workscope Report No. ISI PT-02-014 ISI UT-02-021 Summary No. Component ID Component Description System System Description SI **HPSI Long Term** 2-039-024 39-24 3" Sch 160 Pipe-to-Valve V-522 Recirculation Loop 1 Workscope Report No. **Examination Remarks** PT-02-019 ISI UT-02-015 Limited UT examinations, see Appendix B ISI UT-02-016 ISI 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 **Examination Remarks** Workscope Report No. ISI PT-02-012 ISI UT-02-019 Component Description System Description Summary No. Component ID System SI 2-040-007 40-7 Pipe to Elbow HPSI Long Term Recirculation Loop 2 Workscope Report No. **Examination Remarks** PT-02-020 ISI ISI UT-02-020 CLASS: 1 CATEGORY: B-J ITEM: B9.31 Required: 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** MT-02-006 ISI UT-02-118 ISI ISI UT-02-123 CLASS: 1 CATEGORY: B-J ITEM: B9.32 Required: Complete: 1 <u>System</u> System Description Summary No. Component ID Component Description 2-006-013-009 13-9 Charging Nozzle-to-Pipe Weld RC **RCS Primary Piping Examination Remarks**

Workscope

ISI

Report No.

MT-02-157

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

Summary No. Component ID Component Description System Description

2:033-006 33-6 2" Sch 160 Pipe-to-Valve RC Drain Line 1B

2-033-006 33-6 2" Sch 160 Pipe-to-Valve RC Drain Lin

Workscope Report No. Examination Remarks

Workscope Heport No. Examination Remarks

ISI PT-02-050

PT-02-061

UT-02-086

UT-02-087

UT-02-088

UT-02-089

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

2-034-006 34-6 2" Sch 160 Pipe-to-Valve RC Drain Line 2A

Workscope Report No. Examination Remarks

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

<u>Summary No.</u> <u>Component ID</u> <u>Component Description</u> <u>System Description</u>
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 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: 1CATEGORY: B-OITEM: B14.10Required: 4Complete: 4Summary No.Component IDComponent DescriptionSystem Description

2-002-CEDM-9-78 CEDM-9-78 Upper Housing Weld RC Reactor Vessel Closure Head CEDM Housing

Workscope Report No.

AUG PT-02-078

Examination Remarks

Summary No. Component ID Component Description System System Description

2-002-CEDM-9-88 CEDM-9-88 Upper Housing Weld RC Reactor Vessel Closure

Workscope Report No. Examination Remarks

AUG PT-02-080

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.

AUG PT-02-079

Examination Remarks

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.

AUG PT-02-081

Examination Remarks

CATEGORY: B-P ITEM: B15.10, 20, 30, 40, 50, 60 70 Required: All Complete: All CLASS: 1 System Description **Component Description** System Summary No. Component ID Piping and Components Various Pressure retaining piping and 2-RCS Pres. Test **RCS Leakage Test** Components **Examination Remarks** Workscope Report No. ISI VT-02-409 Period 1 VT Examination ISI 01-2001 F1.10 Required: 70 Complete: 64 CLASS: 1 CATEGORY: F-A ITEM: Summary No. Component Description System System Description Component ID RC Shutdown Cooling Loop 1 2-021-RC-051-H004 RC-51-H4 Support **Examination Remarks** Workscope Report No. VT-02-038 Support Deleted ISI Component ID Component Description System System Description Summary No. Shutdown Cooling Loop 1 Support RC 2-021-RC-051-H005 RC-51-H5 Workscope Report No. **Examination Remarks** VT-02-037 ISI Component ID Component Description System System Description Summary No. Shutdown Cooling Loop 1 Support SI-240-H2 2-021-SI-240-H002 **Examination Remarks** Workscope Report No. VT-02-018 ISI Component ID Component Description System System Description Summary No. Shutdown Cooling Loop 1 2-021-SI-240-H012 SI-240-H12 Support Workscope Report No. **Examination Remarks** VT-02-017 Support Deleted ISI System Description Component ID Component Description Summary No. Shutdown Cooling Loop 1 SI-240-H822 Support 2-021-SI-240-H822 **Examination Remarks** Workscope Report No. VT-02-016 ISI Component ID Component Description System System Description Summary No. Shutdown Cooling Loop 1 SI-240-H823 Support 2-021-SI-240-H823 Workscope Report No. **Examination Remarks** VT-02-039 ISI System Description Component ID Component Description Summary No. Shutdown Cooling Loop 1 Support 2-021-SI-240-H824 SI-240-H824 **Examination Remarks** Workscope Report No. ISI VT-02-040 System Description Summary No. Component ID Component Description SI Shutdown Cooling Loop 2 2-022-SI-193-H008 SI-193-H8 Support **Examination Remarks** Report No. Workscope ISI VT-02-012 <u>System</u> System Description Component Description Summary No. Component ID Shutdown Cooling Loop 2 SI-193-H9 Support 2-022-SI-193-H009

Examination Remarks

Workscope

ISI

Report No.

VT-02-014

CLASS: 1 C Summary No. 2-022-SI-193-H020 Workscope Report I ISI VT-02-0		ITEM: F1.10 (continued) Component Description Support Examination Remarks	<u>System</u> SI	System Description Shutdown Cooling Loop 2
Summary No. 2-022-SI-193-H025 <u>Workscope</u> <u>Report No. ISI VT-02-0</u>		Component Description Support Examination Remarks Support Deleted	<u>System</u> Sl	System Description Shutdown Cooling Loop 2
Summary No. 2-023-SI-207-H007 Workscope Report No. ISI VT-02-2 ISI VT-02-2	43	Component Description Support Examination Remarks	<u>System</u> SI	System Description SI 1A
Summary No. 2-023-SI-207-H011 <u>Workscope</u> Report No. ISI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI 1A
Summary No. 2-024-SI-223-H001 Workscope Report N ISI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI 1B
Summary No. 2-024-SI-223-H002 Workscope Report N ISI VT-02-2		Component Description Support Examination Remarks Support Deleted	<u>System</u> SI	System Description SI 1B
Summary No. 2-025-SI-160-H001 Workscope Report N ISI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI 2A
Summary No. 2-026-SI-175-H021 <u>Workscope</u> <u>Report N</u> ISI VT-02-3		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI 2B
Summary No. 2-026-SI-175-H022 Workscope Report N ISI VT-02-3		Component Description Support Examination Remarks Support Deleted	<u>System</u> SI	System Description SI 2B
Summary No. 2-027-RC-016-H005 Workscope Report N ISI VT-02-3-		Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A

CLASS: 1 CA Summary No. 2-027-RC-016-H006 Workscope Report No. ISI VT-02-345	Component ID RC-16-H6	ITEM: F1.10 (continue Component Description Support Examination Remarks	e d) <u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-016-H007 Workscope Report No ISI VT-02-346	- 7 •	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-016-H015 Workscope Report No ISI VT-02-347		Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-062-H035 Workscope Report No ISI VT-02-348	-	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-062-H036 Workscope Report No ISI VT-02-349	=	Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-062-H037 Workscope Report No. ISI VT-02-350	-	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-027-RC-062-H038 <u>Workscope</u> <u>Report No.</u> ISI VT-02-351	Component ID RC-62-H38	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1A
Summary No. 2-028-RC-017-H043 <u>Workscope</u> Report No. ISI VT-02-379		Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-017-H044 Workscope Report No. ISI VT-02-381	Component ID RC-17-H44	Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-017-H045 Workscope Report No. ISI VT-02-380	Component ID RC-17-H45	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B

CLASS: 1 CA Summary No. 2-028-RC-017-H046 Workscope Report No. ISI VT-02-38.		ITEM: F1.10 (continued) Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-018-H009 Workscope Report No. ISI VT-02-38:	_	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-018-H010 Workscope Report No. ISI VT-02-38-	_	Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-018-H011 Workscope Report No. ISI VT-02-38		Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-028-RC-018-H012 <u>Workscope</u> <u>Report No.</u> ISI VT-02-378	_	Component Description Support Examination Remarks	<u>System</u> RC	System Description Pressurizer Spray 1B
Summary No. 2-029-RC-018-H017 <u>Workscope</u> <u>Report No.</u> ISI VT-02-41	_	Component Description Support Examination Remarks	<u>System</u> RC	System Description Combined Pressurizer Spray
Summary No. 2-033-RC-058-HA Workscope Report No. ISI VT-02-309		Component Description Support Examination Remarks	System RC	System Description Drain Line 1B
Summary No. 2-033-RC-058-HB Workscope Report No ISI VT-02-310		Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Drain Line 1B
Summary No. 2-034-RC-096-HA Workscope Report No ISI VT-02-318		Component Description Support Examination Remarks	System RC	System Description Drain Line 2A
Summary No. 2-034-RC-096-HB Workscope Report No ISI VT-02-319	-	Component Description Support Examination Remarks Support Deleted	<u>System</u> RC	System Description Drain Line 2A

CLASS: 1 CA Summary No. 2-036-RC-091-H2 Workscope Report No. ISI VT-02-372	Component ID RC-91-H2	ITEM: F1.10 (continued) Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-H6 <u>Workscope</u> <u>Report No.</u> ISI VT-02-019	_	Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-HAJ Workscope Report No. ISI VT-02-373	_	Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-HAP Workscope Report No ISI VT-02-374		Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-HAQ Workscope Report No ISI VT-02-375	-	Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-HP Workscope Report No ISI VT-02-376	-	Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-036-RC-091-HQ <u>Workscope</u> <u>Report No</u> ISI VT-02-377		Component Description Support Examination Remarks	<u>System</u> RC	System Description Letdown Line
Summary No. 2-037-CH-005-H013 Workscope Report No ISI VT-02-330	=	Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H017 Workscope Report No ISI VT-02-332		Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H018 Workscope Report No ISI VT-02-333	-	Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line

CLASS: 1 CA Summary No. 2-037-CH-005-H019 Workscope Report No. ISI VT-02-329	Component ID CH-5-H19 D.	Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H020 Workscope Report No. ISI VT-02-33: ISI VT-02-33:	7	Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H021 <u>Workscope</u> <u>Report No.</u> ISI VT-02-334 ISI VT-02-338	- 1	Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H022 <u>Workscope</u> <u>Report No</u> ISI VT-02-335		Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H032 Workscope Report No ISI VT-02-336		Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-037-CH-005-H037 Workscope Report No ISI VT-02-331		Component Description Support Examination Remarks	<u>System</u> CH	System Description Charging Line
Summary No. 2-039-SI-248-H017	Component ID SI-248-H17	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Workscope Report No ISI VT-02-304	=	Examination Remarks		
Summary No. 2-039-SI-248-H018	Component ID SI-248-H18	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Workscope Report No ISI VT-02-305	=	Examination Remarks Support Deleted		
Summary No. 2-039-SI-248-H019	Component ID SI-248-H19	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Workscope Report No. ISI VT-02-307	-	Examination Remarks		

		221(21110)		
CLASS: 1 CA	TEGORY: F-A	ITEM: F1.10 (continued)		
Summary No. 2-039-SI-248-H020	Component ID SI-248-H20	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Workscope Report No VT-02-30		Examination Remarks		
Summary No. 2-039-SI-248-H029	Component ID SI-248-H29	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 1
Workscope Report No ISI VT-02-306	_	Examination Remarks		necilculation Loop 1
Summary No. 2-040-SI-199-H015	Component ID SI-199-H15	Component Description Support	<u>System</u> SI	System Description HPSI Long Term
Workscope Report No ISI VT-02-320	_	Examination Remarks		Recirculation Loop 2
Summary No. 2-040-SI-199-H016	Component ID SI-199-H16	Component Description Support	<u>System</u> SI	System Description HPSI Long Term
Workscope Report No ISI VT-02-32		Examination Remarks		Recirculation Loop 2
Summary No. 2-040-SI-199-H017	Component ID SI-199-H17	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 2
Workscope Report No ISI VT-02-328		Examination Remarks		recirculation Loop 2
Summary No. 2-040-SI-199-H018	Component ID SI-199-H18	Component Description Support	<u>System</u> SI	System Description HPSI Long Term Recirculation Loop 2
Workscope Report No ISI VT-02-325		Examination Remarks		recirculation Loop 2
CLASS: 1 CA	TEGORY: F-A	ITEM: F1.40 Required: 13	Comple	ete: 10
Summary No. 2-016-012 Workscope Report No ISI VT-02-355		Component Description Pump Support # 1, Vertical Column Assembly Examination Remarks	<u>System</u> RC	System Description Reactor Coolant Pump 1.
Summary No. 2-016-013	Component ID 16-13	Component Description Pump Support # 2, Vertical Column Assembly	System RC	System Description Reactor Coolant Pump 1.
Workscope Report No ISI VT-02-388	_	Examination Remarks		
Summary No. 2-016-014 Workscope Report No	Component ID 16-14	Component Description Pump Support # 3, Vertical Column Assembly Examination Remarks	<u>System</u> RC	System Description Reactor Coolant Pump 1/

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 Component ID Component Description Summary No. System System Description 2-017-012 17-12 Pump Support # 1, Vertical Column Assembly RC Reactor Coolant Pump 1B **Examination Remarks** Workscope Report No. ISI VT-02-356 Summary No. Component ID Component Description System Description <u>System</u> 2-017-013 17-13 Pump Support # 2, Vertical Column Assembly RC Reactor Coolant Pump 1B Workscope Report No. **Examination Remarks** VT-02-391 ISI Component ID Component Description System Description Summary No. <u>System</u> 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 Component Description Summary No. Component ID System System Description 2-017-015 17-15 Pump Support #4, Vertical Column Assembly RC Reactor Coolant Pump 1B **Examination Remarks** Workscope Report No. ISI VT-02-393 Component ID Summary No. Component Description System Description System 2-018-017 18-17 Pump Support #5, Snubber RC Reactor Coolant Pump 2A **Examination Remarks** Workscope Report No. 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 N/A (RCP FLYWHEEL - R.G. 1.14) CATEGORY: N/A Required: 4 Complete: 4 Component Description System System Description Summary No. Component ID 2-016-FLYWHEEL Flywheel-RCP-1A (S\N #47429) RC Reactor Coolant Pump 1A 16-Flywheel Workscope Report No. **Examination Remarks** AUG UT-02-084 System Description Summary No. Component ID Component Description <u>System</u>

17-Flywheel

2-017-FLYWHEEL

Report No.

UT-02-085

Workscope

AUG

Flywheel-RCP 1B (S\N #47432)

Examination Remarks

RC

Reactor Coolant Pump 1B

CLASS: 1

CATEGORY: N/A

N/A (RCP FLYWHEEL - R.G. 1.14) ITEM:

(continued)

Summary No.

Component ID

Component Description

System System Description

2-018-FLYWHEEL

18-Flywheel

RC

Workscope

Report No.

Examination Remarks

Reactor Coolant Pump 2A

AUG

UT-02-082

Component ID

Component Description

System System Description

2-019-FLYWHEEL

Summary No.

19-Flywheel

Flywheel-RCP-2B (S\N #47431)

Examination Remarks

Flywheel-RCP-2A (S\N #47430)

RC Reactor Coolant Pump 2B

Workscope Report No.

AUG

UT-02-081

ITEM: C3.20 Required: 23

CLASS: 2 Summary No. CATEGORY: C-C Component ID

Component Description

Complete: 11

2-043-SG-036-H012-S

SG-36-H12

<u>System</u> System Description

Workscope Report No.

Integral Attachment **Examination Remarks**

Examination Remarks

Examination Remarks

Examination Remarks

SG Main Steam (East) SG1-90

181 Summary No.

MT-02-142

Component ID **Component Description**

System System Description

2-044-SG-033-H015-S

SG-33-H15

Component ID

Component ID

Component ID

SG-33-H16

SG Main Steam (West) SG1-270 Integral Attachment

Workscope Report No.

MT-02-141

Component Description System Description System

Summary No. 2-044-SG-033-H016-S

Integral Attachment

SG Main Steam (West) SG1-270

<u>Workscope</u> Report No.

ISI

Summary No.

Summary No.

MT-02-143

Component Description System System Description

SG

System

System

2-045-SG-042-H012-S

Integral Attachment SG-42-H12

Main Steam (East) SG2-270

System Description

System Description

Workscope Report No.

ISI

MT-02-144

SG-45-H12 2-046-SG-045-H012-S

Integral Attachment

Component Description

Workscope **Examination Remarks** Report No.

ISI

MT-02-153

SG Main Steam (West) SG2-90

Summary No.

Component ID 2-064-SG-039-H001-S SG-39-H1

Component Description Integral Attachment

SG Blowdown SG1

Workscope Report No.

Examination Remarks

ISI MT-02-004

Summary No. Component ID

SG-53-H5

Component Description Integral Attachment

System System Description SG Blowdown SG1

2-064-SG-053-H005-S

Workscope Report No. ISI MT-02-003 **Examination Remarks**

Supplemental to achieve 100% coverage ISI PT-02-022

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

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

Examination Remarks Workscope Report No.

ISI

ISI

ISI

MT-02-005

UT-02-107

UT-02-075

Summary No. Component ID Component Description System System Description

2-099-SI-174-H013-S SI-174-H13 Integral Attachment Cont. LPSI Header to

Loop 2B Workscope Report No. **Examination Remarks**

PT-02-046 ISI

Summary No. Component ID Component Description System System Description

2-103-CH-142-H020-S CH-142-H20 CH Integral Attachment 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 Reauired: 40 Complete: 40 Summary No. Component ID Component Description System System Description

2-056-UV132 UV132 **Bonnet Bolting** SG FW SG1

Examination Remarks Workscope Report No.

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

20 Studs

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

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

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

Workscope Report No. **Examination Remarks** ISI PT-02-043

Summary No. Component ID Component Description System System Description

2-059-034 59-34 Penetration to Pipe ΑF Aux & Dwncmr FW SG #2

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

CLASS: 2

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

Summary No. 2-070-056

Component ID 70-56

Component Description

20" Sch 20 SS Pipe-to-Elbow

Examination Remarks

System System Description

SI

LPSI Pump Room "A"

Suction

Workscope ISI

ISI

ISI

ISI

Report No.

PT-02-036 UT-02-054

Report No.

PT-02-033

UT-02-055

Includes long seam

Includes long seam

Summary No. 2-094-074-037

Workscope

Component ID

74-37

Component Description

System System Description

A Train Misc. Pipe Chases

and 88' Pipe Tunnel

20" XS Elbow-to-Pipe

Examination Remarks

No credit for surface exam on long seam

Includes long seam

Summary No.

Component ID

Component Description

System Description System

Loop 1B

2-097-077-022

77-22

Cont. Penetration # 20-to-12" Sch 140

Cont. LPSI Header to

Workscope Report No.

ISI ISI

UT-02-103

Examination Remarks

PT-02-047

Summary No. 2-097-077-027 Component ID

77-27

Component Description Valve-to-12" Sch 140 Pipe <u>System</u> System Description

SI Cont. LPSI Header to

Loop 1B

Workscope

ISI

Report No.

PT-02-045

ISI UT-02-104

UT-02-105 ISI

Examination Remarks

Limited UT examinations, see Appendix B

Summary No.

2-100-070-121

70-121

Component Description

System

System Description

Workscope

Report No.

Component ID

Valve to Pipe

Cont. LPSI Train A Suction

Examination Remarks

ISI

ISI

ISI

ISI

ISI

PT-02-063

UT-02-127

UT-02-128

Limited UT examinations, see Appendix B

Summary No.

Component ID

Component Description

System Description

2-102-084-026

Report No.

24" Sch 30 Elbow-to-Pipe **Examination Remarks**

SI SI Pumps A Train Suction

Workscope ISI

PT-02-032

No credit for surface exam on long seam

ISI

UT-02-053

Includes long seam

Summary No.

Component ID 86-3

84-26

Component Description 20" Sch 20 Pipe-to-Elbow <u>System</u> CH

Refueling Water Suction A

System Description

2-103-086-003 Workscope Report No.

Examination Remarks Includes long seam

PT-02-025 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 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. <u>Component ID</u> <u>Component Description</u> <u>System Description</u>

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

<u>Summary No.</u> <u>Component ID</u> <u>Component Description</u> <u>System System Description</u>

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

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

Workscope Report No. Examination Remarks

Limited UT examinations, see Appendix B

ISI PT-02-018

ISI

ISI

UT-02-017

PT-02-075

ISI UT-02-018

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

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 IDComponent DescriptionSystemSystem Description2-106-061106-61Orifice to PipeSIHPSI Pump Room "A"

Workscope Report No. Examination Remarks

ISI PT-02-031

CLASS: 2 CATEGORY: C-F-1 ITEM: C5.41 Reauired: Complete: 1 Summary No. Component ID Component Description System System Description 2-096-076-079 76-79 SI Cont. LPSI Header to Pipe to sweepolet

U96-076-079 76-79 Pipe to sweepolet SI Cont. LPSI Header to Loop 1A

Workscope Report No. Examination Remarks

CLASS: 2 CATEGORY: C-F-2 C5.51 & C5.52 Required: 10 (10) Complete: 3 (8) ITEM: Component ID Component Description System System Description Summary No. 28" Carbon Steel Pipe-to-Elbow SG Main Steam (West) SG1 2-044-005 44-5 Workscope Report No. **Examination Remarks** MT-02-140 ISI 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 **Examination Remarks** Workscope Report No. 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 54-11A Pipe to Reducer SG FW SG1 2-054-011A Workscope **Examination Remarks** Report No. ISI MT-02-001 ISI UT-02-042 Component Description Summary No. Component ID System System Description FW SG2 2-055-026 55-26 Reducer to Pipe SG Workscope Report No. **Examination Remarks** ISI MT-02-002 ISI UT-02-041 Summary No. Component ID Component Description System Description System 2-058-012 58-12 Pipe to Elbow SG Aux & Dwncmr FW SG1 Workscope **Examination Remarks** Report No. AUG MT-02-146 AUG UT-02-077 Augmented examination per IEB 79-13 & SER 83-07 Summary No. Component ID Component Description <u>System</u> 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 Description <u>System</u> SG Aux & Dwncmr FW SG1 2-058-016 58-16 Pipe to Elbow 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 Tee to Pipe SG Aux & Dwncmr FW SG #1 2-058-016A 58-16A

Augmented examination per IEB 79-13 & SER 83-07

Examination Remarks

Report No.

MT-02-136

UT-02-071

Workscope AUG

AUG

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

Summary No. <u>Component ID</u> <u>Component Description</u> <u>System Description</u>

2-059-012 59-12 Pipe to Elbow SG Aux & Dwncmr FW SG #2

Workscope Report No. Examination Remarks

AUG

AUG

MT-02-147

UT-02-072

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

2-059-013 59-13 Elbow to Pipe SG Aux & Dwncmr FW SG #2

Workscope Report No. Examination Remarks

Augmented examination per IEB 79-13 & SER 83-07

AUG MT-02-137

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 Description
2-059-016A 59-16A Tee to Pipe SG 42

System Description
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

CLASS: 2 Summary No		TEGORY: C-H Component ID	ITEM: Comp	C7.10, 30, 50, 70 onent Description	Required:	All System	Complete: ~10% System Description
2-Pres. Test		System Leakage Test	Piping	and Components		Various	Pressure Retaining Piping and Components
Workscope	Report No.		Ex	amination Remarks			
ISI	VT-02-409	•					
ISI	01-2037		Pe	riod 1 VT Examination			
ISI	01-2050		Pe	riod 1 VT Examination			
ISI	01-2038			riod 1 VT Examination			
ISI	01-2036			riod 1 VT Examination			
ISI	01-2032			riod 1 VT Examination			
ISI	01-2022			riod 1 VT Examination			
ISI	01-2021			riod 1 VT Examination			
ISI	01-2020			riod 1 VT Examination			
ISI	01-2019			riod 1 VT Examination			
ISI	01-2018			riod 1 VT Examination			
ISI	01-2017			riod 1 VT Examination			
ISI	01-2016			riod 1 VT Examination			
ISI	01-2012			iod 1 VT Examination			
ISI	01-2003			riod 1 VT Examination			
ISI	01-2002			riod 1 VT Examination			
ISI	01-2001		Pe	riod 1 VT Examination			
CLASS: 2	CAT	TEGORY: F-A	ITEM:	F1.20 & F1.40	Required:	248	Complete: 120
Summary No.	-	Component ID		onent Description		System	System Description
2-043-SG-036		SG-36-H12	Suppo			SG	Main Steam (East) SG1-90
Workscope	Report No.			amination Remarks			
ISI	VT-02-395		St	pport Deleted			
Summary No.		Component ID	Compe	onent Description		System	System Description
2-044-SG-033		SG-33-H15	Suppo			SG	Main Steam (West) SG1-270
Workscope	Report No.	<u>.</u>	Exa	amination Remarks			
ISI	VT-02-396		Su	pport Deleted			
Summary No.		Component ID	Comp	onent Description		System	System Description
2-044-SG-033		SG-33-H16	Suppo			SG	Main Steam (West) SG1-270
Workscope	Report No.			amination Remarks		-	
ISI	VT-02-397		<u> </u>	The second secon			
			_			•	
Summary No.		Component ID		onent Description		System	System Description
2-044-SG-033		SG-33-H881	Suppo			SG	Main Steam (West) SG1-270
Workscope	Report No.	•	Exa	mination Remarks			
ISI	VT-02-275						
Summary No.		Component ID	Compo	onent Description		<u>System</u>	System Description
2-044-SG-033		SG-33-H882	Suppo			SG	Main Steam (West) SG1-270
Workscope	Report No.		<u>Exa</u>	mination Remarks			
ISI	VT-02-274						

CLASS: 2	CA	TEGORY: F-A	ITEM: F1.20 & F1.40	(continued)	
Summary No).	Component ID	Component Description	<u>System</u>	System Description
2-045-SG-04	2-H012	SG-42-H12	Support	SG	Main Steam (East) SG2-270
Workscope ISI	Report No VT-02-277	="	Examination Remarks Support Deleted		
Summary No 2-045-SG-04		Component ID SG-42-H13	Component Description Support	<u>System</u> SG	System Description Main Steam (East) SG2-270
Workscope ISI	Report No VT-02-276		Examination Remarks Support Deleted		
Summary No		Component ID	Component Description	System	System Description
2-046-SG-04		SG-45-H12	Support	SG	Main Steam (West) SG 2-90
Workscope ISI	Report No VT-02-354	-	Examination Remarks Support Deleted		
Summary No		Component ID SG-45-H887	Component Description Support	<u>System</u> SG	System Description
Workscope	Report No		Examination Remarks	30	Main Steam (West) SG2-90
ISI	VT-02-259	-	<u>Examination i terraino</u>		
Summary No 2-046-SG-04		Component ID SG-45-H888	Component Description	System	System Description
Workscope	Report No.		Support Examination Remarks	SG	Main Steam (West) SG2-90
ISI	VT-02-256		<u>Examination Fiernance</u>		
Summary No		Component ID	Component Description	<u>System</u>	System Description
2-053-SG-08 Workscope	Report No.	SG-81-H4	Support <u>Examination Remarks</u>	SG	Steam to Aux. FW System
ISI	VT-02-089		Support Deleted		
Summary No 2-053-SG-08		Component ID SG-83-H4	Component Description	<u>System</u> SG	System Description
Workscope	Report No.		Support <u>Examination Remarks</u>	30	Steam to Aux. FW System
ISI	VT-02-090		Support Deleted		
Summary No		Component ID	Component Description	<u>System</u>	System Description
2-054-SG-003 Workscope	Report No.	SG-2-H11	Support Examination Remarks	SG	FW SG1
ISI	VT-02-008		Liammanormemarks		
ISI	VT-02-011				
Summary No. 2-055-SG-005		Component ID	Component Description	<u>System</u>	System Description
Workscope	Seport No.	SG-5-H4	Support <u>Examination Remarks</u>	SG	FW SG2
ISI	VT-02-246		LAGITHIQUOTI FIGURES		
ISI	VT-02-247				
Summary No.		Component ID	Component Description	<u>System</u>	System Description
2-055-SG-005 Workscope	o-H005 <u>Report No.</u>	SG-5-H5	Support <u>Examination Remarks</u>	SG	FW SG2
ISI	VT-02-248		<u> Laminadon remana</u>		

CLASS: 2 CA	TEGORY: F-A	ITEM: F1.20 & F1.40	(continued)	
Summary No.	Component ID	Component Description	<u>System</u>	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	1			
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-055-SG-005-H007	SG-5-H7	Support	SG	FW SG2
Workscope Report No.	<u>.</u>	Examination Remarks		
ISI VT-02-250	1			
ISI VT-02-254				
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-055-SG-005-H008	SG-5-H8	Support	SG	FW SG2
Workscope Report No	<u>.</u>	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	<u>System</u>	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)			
			0 1	O sala sa Dana dalla s
Summary No.	Component ID	Component Description	System	System Description
2-058-SG-008-H007	SG-8-H7	Support	SG	Aux & Downcomer
				Feedwater SG 1
Mariana Bara (A)		Examination Remarks		
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				
1.5.	•			

CLASS: 2 C Summary No. 2-058-SG-008-H009 Workscope Report I ISI VT-02-2 ISI VT-02-2	06	ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	<i>(continued)</i> <u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-058-SG-008-H010 <u>Workscope Report I</u> SI VT-02-2 SI VT-02-2	07	Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-058-SG-008-H011 <u>Workscope Report I</u> ISI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-058-SG-008-H017 <u>Workscope</u> <u>Report I</u> ISI VT-02-3		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-059-SG-011-H013 <u>Workscope</u> <u>Report I</u> ISI VT-02-3		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-059-SG-011-H014 <u>Workscope</u> <u>Report I</u> ISI VT-02-2	13	Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-059-SG-011-H015 <u>Workscope</u> <u>Report I</u> ISI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-059-SG-011-H016 <u>Workscope Report I</u> SI VT-02-2		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG
Summary No. 2-059-SG-011-H018 <u>Workscope Report I</u> SI VT-02-3		Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG 2
Summary No. 2-059-SG-011-H019 Workscope Report I ISI VT-02-2	- 	Component Description Support Examination Remarks	<u>System</u> SG	System Description Aux & Dwncmr FW SG

CLASS: 2 CA Summary No. 2-064-SG-039-H001 Workscope Report No ISI VT-02-003	_	ITEM: F1.20 & F1.40 Component Description Support Examination Remarks Support Deleted	<i>(continued)</i> System SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H002 <u>Workscope</u> <u>Report No</u> ISI VT-02-002	_	Component Description Support Examination Remarks Support deleted	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H003 <u>Workscope</u> <u>Report No</u> ISI VT-02-032	_	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H004 Workscope Report No ISI VT-02-033	-	Component Description Support Examination Remarks	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H005 Workscope Report No ISI VT-02-034		Component Description Support Examination Remarks	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H006 <u>Workscope</u> <u>Report No</u> ISI VT-02-035	-	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-039-H027 <u>Workscope</u> <u>Report No</u> ISI VT-02-036	-	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-053-H003 Workscope Report No. ISI VT-02-041	-	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-053-H004 Workscope Report No. ISI VT-02-042	=	Component Description Support Examination Remarks	<u>System</u> SG	System Description Blowdown SG1
Summary No. 2-064-SG-053-H005 <u>Workscope</u> <u>Report No.</u> ISI VT-02-043	·	Component Description Support Examination Remarks	<u>System</u> SG	System Description Blowdown SG1

	ATEGORY: F-A	ITEM: F1.20 & F1.40	(continued)	Ourte B. 14
Summary No. 2-064-SG-053-H006	Component ID SG-53-H6	Component Description	<u>System</u> SG	
Workscope Report N		Support Examination Remarks	36	Blowdown SG1
ISI VT-02-0		Support Deleted		
Summary No. 2-064-SG-053-H007	Component ID SG-53-H7	Component Description	<u>System</u> SG	System Description Blowdown SG1
		Support <u>Examination Remarks</u>	50	biowdown SG1
Workscope Report N ISI VT-02-0		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 N ISI VT-02-0		Examination Remarks Support Deleted		
Summary No. 2-065-SG-048-H014	Component ID SG-48-H14	Component Description Support	<u>System</u> SG	System Description Blowdown SG2
Workscope Report N		Examination Remarks	04	Diovidowi, Gaz
ISI VT-02-0				
Summary No. 2-065-SG-048-H015	Component ID SG-48-H15	Component Description	<u>System</u> SG	System Description Blowdown SG2
Workscope Report N		Support <u>Examination Remarks</u>	30	Diowdown SG2
ISI VT-02-0		<u>Examinator Fornano</u>		
Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H016 Workscope Report N	SG-48-H16	Support Examination Remarks	SG	Blowdown SG2
ISI VT-02-02	_	<u> Lxammation riemains</u>		
Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H017	SG-48-H17	Support	SG	Blowdown SG2
Workscope Report N ISI VT-02-02		Examination Remarks 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 N ISI VT-02-02	-	Examination Remarks		
Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H022	SG-48-H22	Support Support	SG	Blowdown SG2
Workscope Report N ISI VT-02-02		Examination Remarks		
Summary No.	Component ID	Component Description	System	System Description
2-065-SG-048-H023	SG-48-H23	Support	SG	Blowdown SG2
Workscope Report N ISI VT-02-02		Examination Remarks		
V 1-02-02	.o			

CLASS: 2 CA Summary No. 2-065-SG-048-H024 Workscope Report No ISI VT-02-031		ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	<i>(continued)</i> <u>System</u> SG	System Description Blowdown SG2
Summary No. 2-065-SG-048-H025 Workscope Report No ISI VT-02-030	-	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG2
Summary No. 2-065-SG-048-H026 Workscope Report No ISI VT-02-029	_	Component Description Support Examination Remarks Support Deleted	<u>System</u> SG	System Description Blowdown SG2
Summary No. 2-071-SI-078-H001 <u>Workscope</u> <u>Report No</u> ISI VT-02-053	-	Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "A" Discharge
Summary No. 2-071-SI-078-H002 <u>Workscope</u> <u>Report No</u> ISI VT-02-052	=	Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "A" Discharge
Summary No. 2-071-SI-087-H001 <u>Workscope</u> <u>Report No</u> ISI VT-02-051	=	Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "A" Discharge
Summary No. 2-071-SI-087-H002 Workscope Report No. ISI VT-02-050		Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "A" Discharge
Summary No. 2-071-SI-087-H003 Workscope Report No. ISI VT-02-049		Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "A" Discharge
Summary No. 2-073-SI-308-H014 Suction Workscope Report No ISI VT-02-289	=	Component Description Support Examination Remarks	<u>System</u> SI	System Description LPSI Pump Room "B"

CLASS: 2 CA	ATEGORY: F-A	ITEM: F1.20 & F1.40	(continued)	
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-080-SI-119-H001	SI-119-H1	Support	SI	Containment Spray Pump Room "B" Discharge
Workscope Report N	<u>o.</u>	Examination Remarks		·
PSE 01-2004				
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-086-SI-129-H012	SI-129-H12	Support	SI	Shutdown Cooling Heat Exchanger Room B
Workscope Report N	<u>o.</u>	Examination Remarks		
PSE 01-2005				
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-094-SI-241-H006	SI-241-H6	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel
Workscope Report N	<u>o.</u>	Examination Remarks		•
ISI VT-02-06	2			
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-094-SI-241-H007	SI-241-H7	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel
Workscope Report No	<u>o.</u>	Examination Remarks		
ISI VT-02-06	1			
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	<u>o.</u>	Examination Remarks		•
ISI VT-02-08	8			
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-094-SI-241-H017	SI-241-H17	Support	SI	A Train Misc. Pipe Chases and 88' Pipe Tunnel
Workscope Report No	<u>o.</u>	Examination Remarks		and do ripo rannor
ISI VT-02-07	5			
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	<u>o.</u>	Examination Remarks		
ISI VT-02-04				
ISI VT-02-05	9			
Summary No.	Component ID	Component Description	<u>System</u>	System Description
2-095-SI-072-H009	SI-72-H9	Support	SI	B Train Misc. Pipe Chases and 88' Pipe Tunnel
Miles Describe		E and the Beautiful		

Examination Remarks

Workscope Report No.

ISI VT-02-046

CLASS: 2 Summary No. 2-096-SI-202- Workscope ISI		- '	ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	<i>(continued)</i> <u>System</u> SI	System Description Cont. LPSI Header to Loop 1A
Summary No. 2-096-SI-202-		Component ID SI-202-H4	Component Description Support	<u>System</u> SI Loop 1A	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-080	•	Examination Remarks		
Summary No. 2-096-SI-202-		Component ID SI-202-H6	Component Description Support	<u>System</u> SI Loop 1A	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-079	•	Examination Remarks		
Summary No. 2-096-SI-202-		Component ID SI-202-H10	Component Description Support	<u>System</u> SI Loop 1A	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-077	_	Examination Remarks Support Deleted		
Summary No. 2-096-SI-202-		Component ID SI-202-H11	Component Description Support	<u>System</u> SI Loop 1A	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-078	=	Examination Remarks Support Deleted		
Summary No. 2-096-SI-202-		Component ID SI-202H15	Component Description Support	<u>System</u> SI Loop 1A	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-082	-	Examination Remarks		
Summary No. 2-097-SI-220-		Component ID SI-220-H1	Component Description Support	System SI Loop 1B	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-298		Examination Remarks		
Summary No. 2-097-SI-220-		Component ID SI-220-H16	Component Description Support	System SI Loop 1B	System Description Cont. LPSI Header to
Workscope ISI	Report No. VT-02-299		Examination Remarks		
Summary No. 2-097-SI-220-		Component ID SI-220-H17	Component Description Support	<u>System</u> SI Loop 1B	System Description Cont. LPSI Header to
Workscope ISI	Report No VT-02-300		Examination Remarks	•	

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 SI Cont. LPSI Header to Support

Loop 1B

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

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

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

Summary No. Component ID Component Description System System Description

2-097-SI-220-H028 SI-220-H28 SI Cont. LPSI Header to Support

Loop 1B

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

Summary No. Component Description System Description Component ID System

2-098-SI-155-H001 SI-155-H1 SI Cont. LPSI Header to Support

Loop 2A

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

Summary No. Component ID Component Description System

2-098-SI-155-H002 SI-155-H2 Support Cont. LPSI Header to

System Description

Loop 2A

Workscope Report No. **Examination Remarks**

ISI VT-02-084

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

Loop 2A **Examination Remarks**

ISI VT-02-085 Support Deleted

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

Support Loop 2A

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

Workscope

Report No.

Summary No. Component ID Component Description System Description

2-098-SI-155-H007 SI-155-H7 Support Cont. LPSI Header to

Loop 2A

Workscope Report No. **Examination Remarks**

VT-02-083 ISI

CLASS: 2 CA Summary No. 2-099-SI-174-H007 Workscope Report No. ISI VT-02-404	_	ITEM: F1.20 & F1.40 Component Description Support Examination Remarks Support Deleted	<i>(continued)</i> System SI	System Description Cont. LPSI Header to Loop 2B
Summary No. 2-099-SI-174-H008	Component ID SI-174-H8	Component Description Support	<u>System</u> SI	System Description Cont. LPSI Header to Loop 2B
Workscope Report No ISI VT-02-408		Examination Remarks		
Summary No. 2-099-SI-174-H009 Workscope Report No	Component ID SI-174-H9	Component Description Support Examination Remarks	<u>System</u> SI	System Description Cont. LPSI Header to Loop 2B
ISI VT-02-406		Support Deleted		
Summary No. 2-099-SI-174-H010	Component ID SI-174-H10	Component Description Support	<u>System</u> SI	System Description Cont. LPSI Header to Loop 2B
Workscope Report No ISI VT-02-407		Examination Remarks		
Summary No. 2-099-SI-174-H013	Component ID SI-174-H13	Component Description Support	<u>System</u> SI	System Description Cont. LPSI Header to Loop 2B
Workscope Report No ISI VT-02-408	_	Examination Remarks		
Summary No. 2-102-SI-008-H001 Workscope Report No. ISI VT-02-05		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-102-SI-008-H002 Workscope Report No. ISI VT-02-054		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-102-SI-008-H003 Workscope Report No. ISI VT-02-056		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-102-SI-008-H004 <u>Workscope</u> <u>Report No</u> ISI VT-02-057		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction

CLASS: 2 CA Summary No. 2-102-SI-307-H006 Workscope Report No. ISI VT-02-060		ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	<i>(continued)</i> <u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-102-SI-307-H007 Workscope Report No. ISI VT-02-063		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-102-SI-307-H014 Workscope Report No. ISI VT-02-048		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps A Train Suction
Summary No. 2-103-CH-142-H008 Workscope Report No. ISI VT-02-064	•••	Component Description Support Examination Remarks	System CH	System Description Refueling Water Suction A
Summary No. 2-103-CH-142-H020 <u>Workscope Report No</u> ISI VT-02-065		Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction A
Summary No. 2-103-CH-142-H021 Workscope Report No. ISI VT-02-067	-	Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction A
Summary No. 2-103-CH-424-H002 <u>Workscope</u> <u>Report No</u> ISI VT-02-066	-	Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction A
Summary No. 2-103-CH-424-H003 <u>Workscope</u> <u>Report No</u> ISI VT-02-068		Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction A
Summary No. 2-104-SI-308-H001 Workscope Report No ISI VT-02-284	-	Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps B Train Suction
Summary No. 2-104-SI-308-H002 Workscope Report No ISI VT-02-285	=	Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps B Train Suction

CLASS: 2 CA Summary No. 2-104-SI-308-H003 Workscope Report No. ISI VT-02-29	- 	ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	(continued) System SI	System Description SI Pumps B Train Suction
Summary No. 2-104-SI-308-H004 <u>Workscope</u> <u>Report No.</u> ISI VT-02-29		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps B Train Suction
Summary No. 2-104-SI-308-H006 Workscope Report No. ISI VT-02-28	_	Component Description Support Examination Remarks Support Deleted	<u>System</u> SI	System Description SI Pumps B Train Suction
Summary No. 2-104-SI-308-H007 Workscope Report No. ISI VT-02-28	_	Component Description Support Examination Remarks Support Deleted	<u>System</u> SI	System Description SI Pumps B Train Suction
Summary No. 2-104-SI-308-H015 <u>Workscope</u> <u>Report No.</u> ISI VT-02-28		Component Description Support Examination Remarks	<u>System</u> SI	System Description SI Pumps B Train Suction
Summary No. 2-105-CH-149-H001 Workscope Report No. ISI VT-02-40		Component Description Support Examination Remarks Expansion	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H002 Workscope Report No. ISI VT-02-40		Component Description Support Examination Remarks Expansion	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H003 Workscope Report No. ISI VT-02-40		Component Description Support Examination Remarks Expansion	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H004 Workscope Report No. ISI VT-02-28 PSE VT-02-38	3	Component Description Support Examination Remarks Reject Re-examination, PSE after replace	System CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H005 Workscope Report No. ISI VT-02-29		Component Description Support Examination Remarks	System CH	System Description Refueling Water Suction B

CLASS: 2 CA Summary No. 2-105-CH-149-H006 Workscope Report No ISI VT-02-29		ITEM: F1.20 & F1.40 Component Description Support Examination Remarks	<i>(continued)</i> <u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H007 Workscope Report No. ISI VT-02-29	-	Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H008 Workscope Report No. ISI VT-02-39		Component Description Support Examination Remarks Expansion	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H021 <u>Workscope</u> <u>Report No.</u> ISI VT-02-39		Component Description Support Examination Remarks Expansion	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H025 Workscope Report No. ISI VT-02-29:	_	Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H026 <u>Workscope</u> <u>Report No.</u> ISI VT-02-29	_	Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-105-CH-149-H027 <u>Workscope</u> <u>Report No.</u> ISI VT-02-29		Component Description Support Examination Remarks	<u>System</u> CH	System Description Refueling Water Suction B
Summary No. 2-115-SI-157-H010	Component ID SI-157-H10	Component Description Support	<u>System</u> SI	System Description Containment HPSI Header Loop 2A & 2B
Workscope Report No ISI VT-02-07		Examination Remarks Support Deleted		2004 5V & 5D
Summary No. 2-115-SI-157-H011 Workscope Report No. ISI VT-02-07		Component Description Support Examination Remarks	<u>System</u> SI	System Description Containment HPSI Header Loop 2A & 2B

CLASS: 2

CATEGORY: F-A

ITEM: F1.20 & F1.40

(continued)

57

Summary No.

2-115-SI-176-H004

Component ID SI-176-H4

Component Description

SI

System System Description

Containment HPSI Header

Loop 2A & 2B

Workscope

ISI

Report No. VT-02-073

Support

Examination Remarks

CLASS: 2

CATEGORY: C-F-2

ITEM: AHE5.51 Reauired: Complete: 8

Summary No.

Component ID

Component Description

System System Description

2-053-001

53-1

Sweepolet-to-6" Sch 80 Pipe **Examination Remarks**

SG Steam to Aux. FW System

Workscope

Report No. MT-02-013

AUG AUG

UT-02-092

Supplemental Exam

Summary No.

Component ID

Component Description

System Description System

2-053-002

53-2

6" Sch 80 Pipe-to-Elbow **Examination Remarks** SG Steam to Aux. FW System

Workscope AUG

AUG

Report No.

MT-02-012 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.

AUG AUG UT-02-094

MT-02-016

Examination Remarks

Summary No.

Component ID

Component Description 6" Sch 80 Pipe-to-Elbow

2-053-005

53-5

System Description System Steam to Aux. FW System

Workscope

Report No.

AUG AUG MT-02-011 UT-02-095

Examination Remarks

Summary No.

Component ID

SG

System Description

2-053-006

Component Description 6" Sch 80 Elbow-to-Pipe **Examination Remarks**

SG Steam to Aux. FW System

Workscope **AUG**

Report No. MT-02-017

AUG

UT-02-096

Summary No.

Component ID

Component Description System 6" Sch 80 Pipe-to-Elbow

2-053-007 53-7

Workscope AUG

AUG

Report No.

AUG

MT-02-010 UT-02-097

UT-02-098

SG Steam to Aux. FW System

System Description

Component Description

Examination Remarks

System **System Description**

Summary No. 2-053-008

Component ID 53-8

6" Sch 80 Elbow-to-Pipe

SG Steam to Aux. FW System

Workscope Report No.

AUG MT-02-009 **Examination Remarks**

Page A50 of 51

(continued)

CLASS: 2

CATEGORY: C-F-2

ITEM: AHE5.51

System System Description

Summary No.

Component ID

Component Description

SG

2-053-009

53-9

6" Sch 80 Pipe-to-Elbow

Steam to Aux. FW System

Steam to Aux. FW System

Workscope

Report No. MT-02-014 **Examination Remarks**

AUG AUG

UT-02-099

Summary No.

Component ID

53-10

Component Description 6" Sch 80 Elbow-to-Pipe

Examination Remarks

System Description

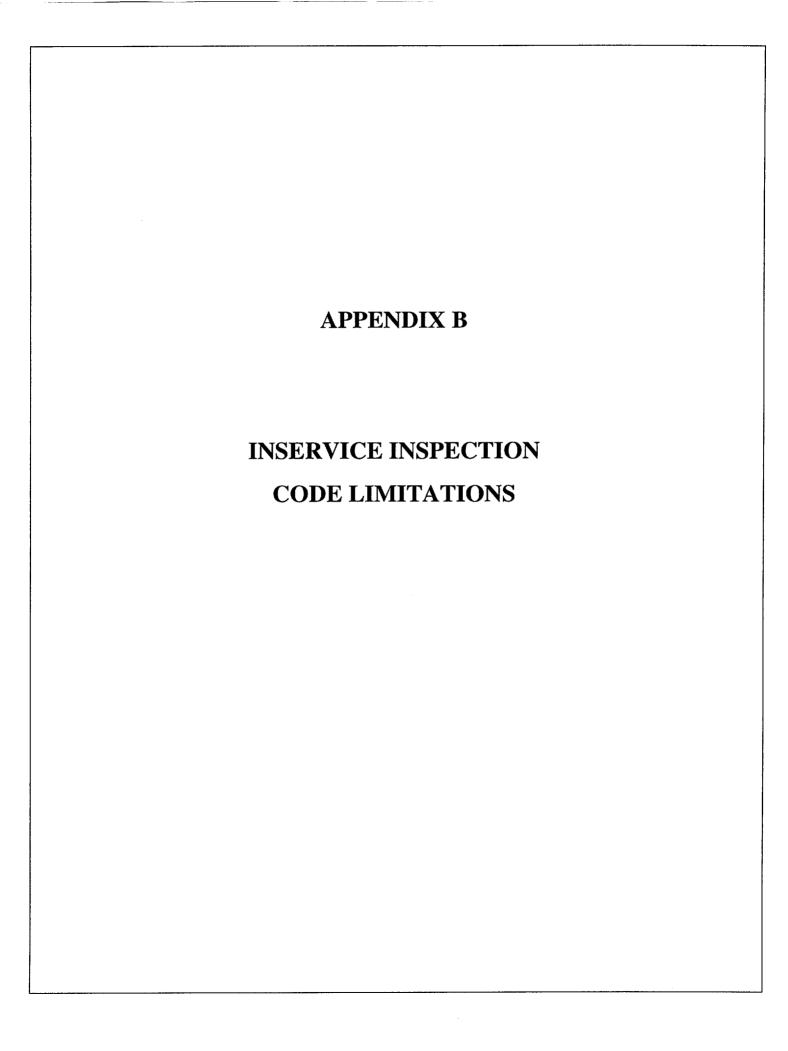
ŞG

2-053-010 Workscope

Report No.

AUG AUG

MT-02-008 UT-02-100



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

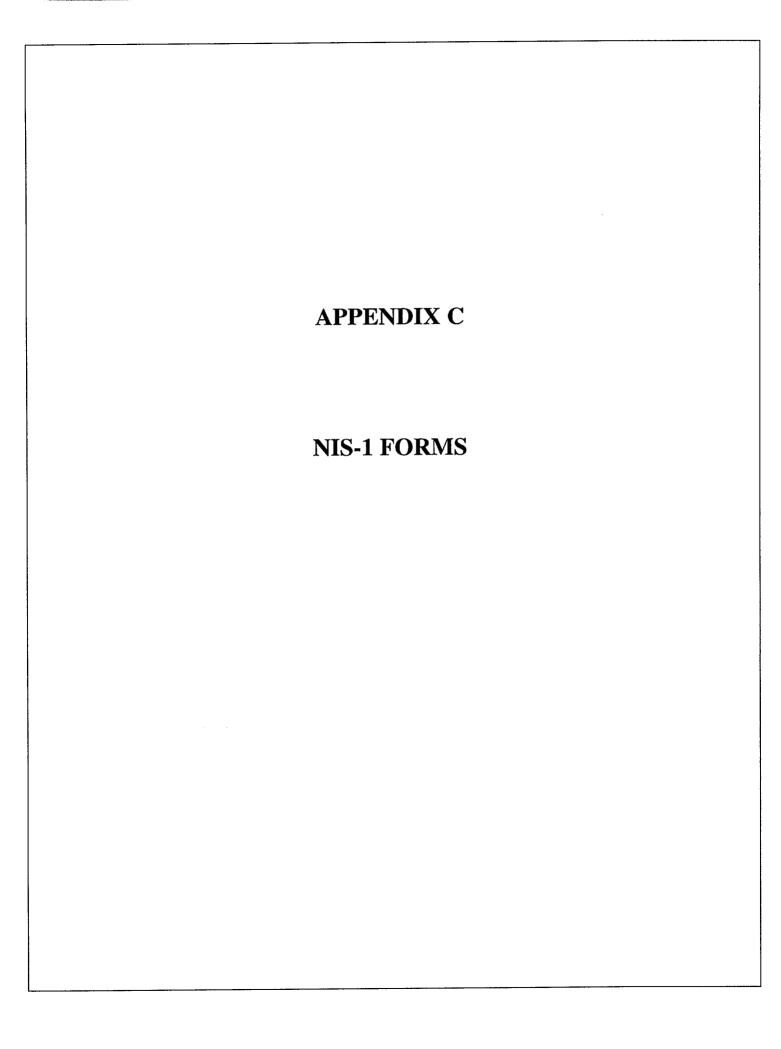
<u>Limitation</u> Pressurizer head to nozzle weld examinations limited to an average of 83% coverage, due to geometrical configuration.

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

<u>Limitation</u> 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

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



APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1.	OWNER -	ARIZONA PUBLIC SERVICE COMPANY, et al
	ADDRESS -	P.O. BOX 52034, PHOENIX, ARIZONA 85072
2.	PLANT -	PALO VERDE NUCLEAR GENERATING STATION
	ADDRESS -	5801 SOUTH WINTERSBURG ROAD; TONOPAH, ARIZONA 85354-7529
3.	UNIT NUMBER	
4.	OWNERS' CERTIFI	CATE OF AUTHORIZATION - NONE
5.	COMMERCIAL SEI	RVICE DATE - September 19, 1986
6.	COMPONENTS INS	SPECTED:

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 <u>11-3-2001</u> TO <u>4-15-2002</u>
- 8. INSPECTION INTERVAL FROM <u>3-18-1997</u> TO <u>3-17-2007</u>
- 9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME 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 Mulaul A. Meek.

CERTIFICATE OF INSERVICE INSPECTION

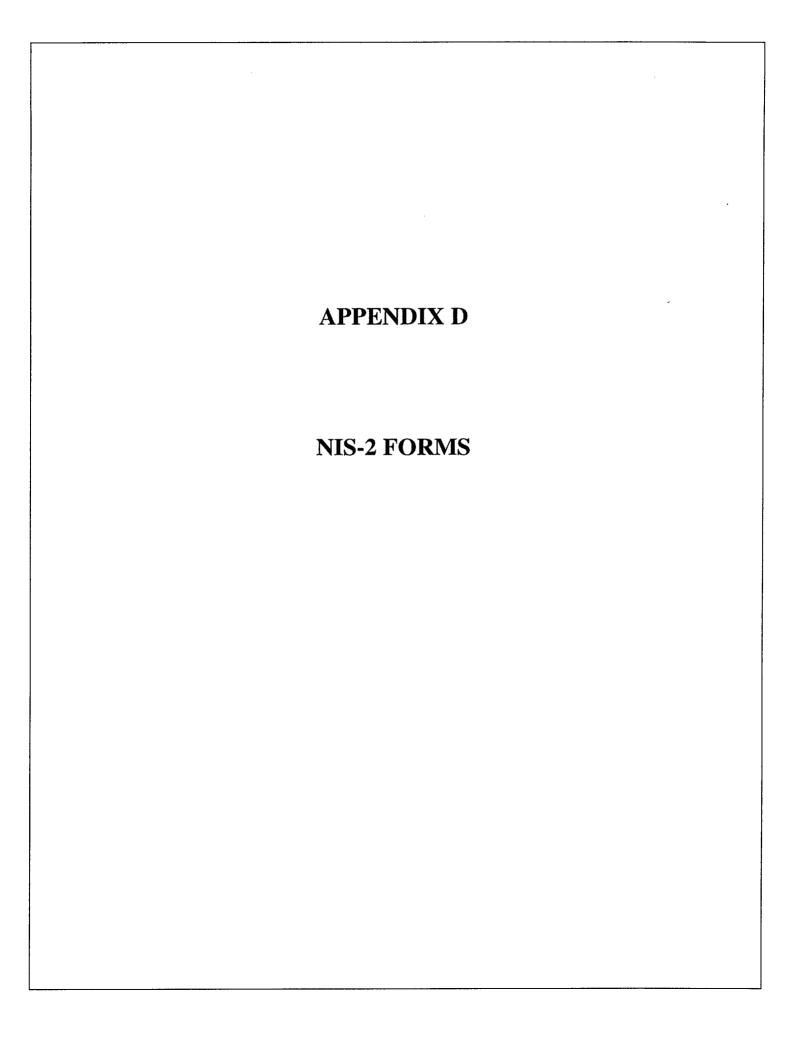
I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSB-CT. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD [1-3-01] TO 4-15-02, AND 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

alar Muar COMMISSIONS NB 10448, "BNIC", CA 1716

NAT'L BOARD, STATE, PROVINCE

DATE Jul. 11, 2002



	ASME SECTION XI - REPAIR/REPLACEMENT								
1.	Component ID 2JD	GAHCV0009	2. Code Class_	3					
3.	u - Description IS	OI ATION VALVE F	OR 2MDGAXUIB	00010071					
4.	N. S. D. Homes Number	r 2DG01-2	5. W.O. Number	00919271					
6.	Original Construction Code Edition 1974 EDITION, SUMMER 1976 ADDENDA								
7.	1974 EDITION, WINTER 1975 ADDENDA								
8.		DEDI ACE VALVE T	O ALLOW INSTALLA	ATION OF MOOT	SEAT AS				
	REQUIRED TO	CORRECT THE NOT	ED LEAKAGE BY TH	ie seat.					
			Flaw Detection						
9.	ISI Flaw		enort Number		· · · · · · · · · · · · · · · · · · ·				
10	Evaluation of the su	itability of this work as p	er the requirements of IA	W-4150.					
	REF. ECE-DG-A	062							
		Water Organization A	RIZONA PUBLIC SER	VICE					
		مانممم مسيد والمستحد	A Code/Haitian (ASIVID	111, 000, 1, 000,	6 ADDENDA				
		LA adjustic Construction C	ode/Edition SECTION	III, 74 DESTITOTS	/'75 ADDENDA				
13	Repair/ReplaceMen	ode/Edition 1992 ED	ITION AND 1972 ADE	<u> </u>					
15	n in Inchastic	an Required	YES VINO						
	03/14/00	If required, include a	step in the W.O. to perfo	rm Preservice Inspecti	on.				
16	ACME Section XI P	ressure Test Required	YES 🚣 NO		•				
10	03/14/00) If required, include a	step in the W.O. for ISI 8	ANII Inspection.					
-	Initial Date		n the W.O. to complete N	S-2 Form prior to relea	sing the component.				
-	Initial Date	17. Include a step in	Title VV.O. to complete	all applicable numbe	rs for repaired or				
_	03/14/00 Date) 18. Include a step in replaced items.	n the W.O. to record below		Tanana NO				
-	COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO. 357601-1				
12	JOGAHC VOOD9	APN 4500-3509	ND-573929-01	N/A	33/60/				
_									
-									
-									
-		10		DAMI	D.I. BRIINSON				
1	9. Planner	1. Kurson		_ Print Name _ <u>DAVI</u>					
1	•	Signature Run Mon	ow 3-14-00	Print NameR.a.u _ Print NameR.a.	Morrow				
4	20. ISI Engineer	Signature	Dale	Drint Nama R. G.	HOUSTRON				
1	21. ANII	1. 12 +	₹-14-00	PIIII Name					

	FORM	NIS-2 OWNER	S'S REPOR	T FOR	REPAIRS (OR F	REPLACEN	IENTS
		As Required by	y the Provision	ons of the	ASIVIL COde			
1. Owner	Arizona I	Public Service Con	npany, et. al.		Date		01/1//01	
	P.O. Box	53999, Phoenix, A	Arizona 85072-	-2034	Sheet	1_	of	
		de Nuclear General	KI1622				<u>, 2</u>	
2. Plant	SOUL S V	Vintersburg Rd., T	onopah, Arizo	na 85354-7	7529		230255	
	3801 3. 1	Ad	ddress					
3. Work P	erformed by	Arizona Public S	Service Co.					None '
		Na	ame		Authoriza	tion No	o. <u>N/</u>	· ·
	P.O. Box	53999, Phoenix, A	Az. 85072-203	4	Expiration	Date	N/A	<u> </u>
		· AC	nerator (DG),		tion III Class	3		
	cation of Sys							_
5. (a) Ap	plicable Con	struction Code Secti	on III ND	19 <u>74</u> t	Edition, W'75	Adde	nda, <u>N/A</u>	Code Case
(h) An	oliooblo Edil	tion of Section XI Utiliz	ed for Repairs or	Replacemen	its 19 <u>92</u> Editi	on, <u>1</u>	992 Adden	da
6. Identifi	cation of Co	mponents Repaired or	r Repiaced and R	eplacement (Components			LA COME Code
	ne of	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
	alve		ND-523424-OIA	N/A	DGAHCV0009	1993	Replacement	Yes
· · · · · · · · · · · · · · · · · · ·								
							·	
				G				
								<u> </u>
					•			
7. Descr	iption of Wo	rk Replaced valve						
8. Test C	Conducted:	Hydrostatic	Pneumatic 🔲	Nominal Op	erating Pressure	Ø	Exempt 🛄	N-416-1 🛄
,		Other	Pressure	psi		Test T	emp	_°F
		* **						
NOTE	Sunnlama	ntal sheets in form o	f lists, sketches	, or drawing:	s may be used,	provid	ded (1) size is 8	1 1/2 x 11 in.,
(2) info	rmation in i	ntal sheets in form o items 1 through 6 on eets is recorded at th	i this report is in	Cluded ou e	ach sheet, and	(3) ea	ich sheet is nun	Indied and

emarks	Work Order 230255, origion	nally prepared under "Legacy	Work Order" number 00-919271.
			IANCE
		RTIFICATE OF COMPL	
We certif	fy that the statements made in SME Code, Section XI.	in the report are correct and t	repair or replacement conforms to the rules
tuna Ca	de Symbol Stamp	N/A	
	te of Authorization No.	N/A	Expiration Date
Jeninca	le di Adinonzation no.	ISI ENG	WEER Date 1-17-01
Signed _	Willy Office Owner of	or Owner's Designee, Title	
Signed _		or Owner's Designee, Title	
Signed _			
	CERTIFIC	CATE OF INSERVICE I	NSPECTION onal Board of Boiler and Pressure Vesse
I, the understanding the under	dersigned, holding a valid coors and the State or Province	cate of Inservice Immission issued by the Nation of Arizona and employed the inspected the components 1-17-01 and stimulations and taken corrections.	NSPECTION onal Board of Boiler and Pressure Vesse ed by HSBI & I CO. described in this Owner's Report during ate that to the best of my knowledge and the measures described in this Owner's
the understanding the period belief, the Report in By signic concern	dersigned, holding a valid control of the State or Province artford. Connecticut, have also on a secondance with the required accordance with the required the control of t	cate of Inservice Immission issued by the Nation of Arizona and employed ve inspected the components 1-17-01 and standard and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable in any manning and taken corrective measures described or shall be liable and taken corrective measures described or shall be liable and taken corrective measures described or shall be liable and taken corrective described or shall be liable and taken corrective described or shall be liable and taken correctiv	NSPECTION onal Board of Boiler and Pressure Vesse ed by HSBI & I CO. is described in this Owner's Report during ate that to the best of my knowledge and remeasures described in this Owner's rection XI. onakes any warranty, expressed or implied in this Owner's Report. Furthermore, er for any personal injury or property

	ASME SECTIO	N XI - REPAIR/R	EPLACEMENT	
1. Component ID 2SI092I	H002	2. Code Cla	ss SECTION III Subsec	ction NF Class 3
3. Item Description 1 KIP				
4. N-5 Package Number	2CH08-1B	5. W.O. Nun	nber <u>234213</u>	
6. Original Construction Co	ode Edition 1974 EDI	TION THRU WINTER	1975 ADDENDA	
7. Original Installation Cod	le Edition 1974 EDIT	ION THRU WINTER 19	75 ADDENDA	
8. Work Description Repla				
***************************************				·
9. 🔲 ISI Flaw	NDE Me	ethod of Flaw Detection		
		•	W 4450	
10. Evaluation of the suital	bility of this work as pe	er the requirements of IAV casures. This is a like for	V-4150. like repalcement	
Not a failure. Change	u for precautionary me	asures. This is a rike for		
	A D	oc .		
11. Repair/Replacement V				
12. Replacement Item Cor				
13. Repair/Replacement A			ON THRU WINTER 19	73 ADDENDA
14. ASME Section XI Code	e/Edition 1992 Edition		5 5 va	
15. Preservice Inspection		Y C to see		tion
Initial 3-8-2001	If required, include	a step in the W.O. to pe	nom Freservice mapeci	uon.
16. ASME Section XI Pres		□ Y		
pmg 3-8-2001		a step in the W.O. for IS		
initial Date		in the W.O. to complete		
Initial Date	18. Include a step	in the W.O. to record be	low all applicable numbe	ers for repaired or
Initial Date	replacement it	SERIAL NO.	HEAT NO.	MR/ROS NO.
ITEM I.D. 2SI092H002	N/A	4200	N/A	N/A
				·
19. Planner Dade	my Donald	3-8-2121 Print 1	Name David Goodlet	
	Signature	Date	Name R. P. I	TNDAP
20. ISI Engineer	Signature	Date Print	name	- (M p- 1) •
21. ANII 2st x			Name Robert Hogstram	
	Signature	Date		73DP-92Z17

PV-E0093 Ver. 6

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et, al. Date 02/16/01 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of _____ 2. Plant Palo Verde Nuclear Generating Station Unit 2 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 234213 Work Order Number 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None Authorization No. _____N/A 5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A "SI" Safety Injection 4. Identification of System 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 ASME Code Repaired Year **National** Other Manufacturer Name of Name of Stamped Board No. Identification Built Serial No. Manufacturer Replacement (Yes or No) Item 1978 Replacement Yes N/A 2SI092H002 4200 Pacific Scientific 1 Kip Snubber 7. Description of Work Snubber Replacement (No Welding) Pneumatic Nominal Operating Pressure Exempt N-416-1 8. Test Conducted: Hydrostatic Test Temp. Pressure psi Other NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks	WO#234213 Removed snubber Serial number 9373 and replaced it with serial number 4200
	CERTIFICATE OF COMPLIANCE
	ify that the statements made in the report are correct and this replacement conforms to the rules SME Code, Section XI.
Type Co	ode Symbol Stamp
Certifica	ate of Authorization No. N/A Expiration Date N/A
Signed	RPMdap, ISI Engineer Date 6-05-200
	Owner or Owner's Designee, Title
f. the ur	CERTIFICATE OF INSERVICE INSPECTION Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse
Inspect	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse ors and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u> artford, Connecticut , have inspected the components described in this Owner's Report during
Inspector of <u>H</u> the period belief, t	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse ors and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u>
Inspector of <u>H</u> the periphelief, t Report By sign concern neither	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse ors and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u> <u>artford, Connecticut</u> , have inspected the components described in this Owner's Report during od <u>3-23-01</u> to <u>6-5-01</u> , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's
Inspector of <u>H</u> the periphelief, t Report By sign concern neither	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser and the State or Province of Arizona and employed by HSBI & I CO. artford, Connecticut , have inspected the components described in this Owner's Report during od 3-23-0\ to 6-5-0\ , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI. ing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied in the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property

	ASME SECTIO	N XI - REPAIR/R	EPLACEMENT	
1. Component ID 2SI11	9H001	2. Code Clas	ss SECTION III Subse	ction NF Class 2
3. Item Description 3 K	P SNUBBER			
4. N-5 Package Number	2SI06-4	5. W.O. Num	nber <u>234291</u>	
6. Original Construction	Code Edition 1974 EDI	TION THRU WINTER 1	975 ADDENDA	
7. Original Installation C	ode Edition 1974 EDIT	ION THRU WINTER 19	75 ADDENDA	
8. Work Description Re	place Snubber			<u> </u>
		U. d. of Figure Detection		
9. 🔲 ISI Flaw	NDE ME	ethod of Flaw Detection _		
40 Evaluation of the su	itability of this work as De	r the requirements of IAV		
Not a failure. Char	nged for precautionary me	easures.This a like for lik	e repalcement	
11. Repair/Replacemen	t Work Organization AP	S		
12. Replacement Item C	Construction or reconciled	Code/Edition 1974 EDI	TION THRU WINTER	1975 ADDENDA
		de/Edition 1974 EDITIO		
14. ASME Section XI C	ode/Edition 1992 Edition	n and 1992 Addenda		
15. Preservice Inspecti	on Required.	☑ Y		
June 3.8.20	/ If required, include	a step in the W.O. to per	rform Preservice Inspect	ion.
16. ASME Section XI P	ressure Test Required	☐ YI	ES 🗹 NO	
		a step in the W.O. for IS	& ANII Inspection.	
		in the W.O. to complete		asing the component.
Initial Date	18. Include a step	in the W.O. to record bel	ow all applicable numbe	rs for repaired or
Initia! Date	replacement i	serial NO.	HEAT NO.	MR/ROS NO.
ITEM I.D. 2SI119H001	PART NO. N/A	20221	N/A	N/A
25111911001	1111			
/>	Ma Dill	3-3-24#/ Print!	Name David Goodlet	
19. Planner	Signature	Date		
20. ISI Engineer	Photo P Signature	3/23(0) Print I	Name <u> </u>	INDAP
21. ANII 4	& Agetion		Name Robert Hogstram	
	Sonature	Date		730P-9ZZ17

PV-E0093 Ver. 6

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 02/16/01 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 2 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 234291 Work Order Number Type Code Symbol Stamp None 3. Work Performed by Arizona Public Service Authorization No. N/A 5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A "SI" Safety Injection 4. Identification of System 5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired ASME Code Year National Other Manufacturer Name of Name of Stamped or Board No. Identification Built Serial No. Manufacturer (Yes or No) Replacement Item 1982 Replacement Yes N/A 2SI119H001 20221 Pacific Scientific 3Kip Snubber 7. Description of Work Snubber Replacement (No Welding) Pneumatic Nominal Operating Pressure N-416-1 Exempt 🗹 8. Test Conducted: Hydrostatic Test Temp. Other T NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

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

Remarks	WO#234291 Removed snubber Serial number 7164 and replaced it with serial number 20221
	CERTIFICATE OF COMPLIANCE
	ify that the statements made in the report are correct and this replacement conforms to the rules SME Code, Section XI.
	ode Symbol Stamp N/A
Certifica	ate of Authorization No. N/A Expiration Date N/A
Signed	Prodap, ISI Engineer Date 6-05-2001 Owner or Owner's Designee, Title
	Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
i, the u	CERTIFICATE OF INSERVICE INSPECTION Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessers and the State or Province of Arizona and employed by HSBI & I CO.
I, the ui Inspect of <u>H</u> the per	CERTIFICATE OF INSERVICE INSPECTION Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse
I, the un Inspect of H the per belief, I Report By sign concer neither	CERTIFICATE OF INSERVICE INSPECTION Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser ors and the State or Province of Arizona and employed by HSBI & I CO. Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesser or Boiler and Pressu

ASME SECTION XI - REPAIR/REPLACEMENT								
1. Component ID 2SI129)H012	2. Code Clas	ss SECTION III Subsec	ction NF Class 2				
3. Item Description 3 KI								
4. N-5 Package Number	2SI07-10	5. W.O. Nun	nber <u>234409</u>					
6. Original Construction C	Code Edition 1974 EDI	TION THRU WINTER	1975 ADDENDA					
	7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA							
8. Work Description Replace Snubber								
	NDE Me	ethod of Flaw Detection _						
9. 🔲 ISI Flaw	NOC INC							
10. Evaluation of the suite	ability of this work as pe	r the requirements of IAV	V-4150.					
Not a failure. Change	ed for precautionary me	asures. This is a like for	like replacement					
11. Repair/Replacement	Work Organization AP	S						
12. Replacement Item Co								
13. Repair/Replacement			ON THRU WINTER 197	75 ADDENDA				
14. ASME Section XI Cod	de/Edition 1992 Edition	n and 1992 Addenda						
15. Preservice Inspection	Required.	2 Y		ta a				
Initial Date	If required, include	a step in the W.O. to per	rform Preservice Inspect	ion.				
16. ASME Section XI Pre	ssure Test Required	☐ Y	ES 🖸 NO	•				
<i>H</i>	<u> </u>	a step in the W.O. for IS						
Initial Gate S-3-Zer	17. include a step	in the W.O. to complete	NIS-2 Form prior to relea	asing the component.				
		in the W.O. to record bel	low all applicable numbe	rs for repaired or				
Initial Date	replacement if	SERIAL NO.	HEAT NO.	MR/ROS NO.				
2SI129H012	N/A	25362	N/A	N/A				
7,	3 1 1 hors							
19. Planner Lend	wy front	7-8-2001 Print I	Name David Goodlet					
20. ISI Engineer	Signature Signature	3/23/01 Print I	Name RP-I	NDAP				
2	Signature /	/Date	Name Robert Hogstram					
21. ANII	Signature	3-23-01 Print	TOOM TOGOLOM					

PV-E0093 Ver. 6

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 02/16/01 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station _____ Unit _____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 234409 Work Order Number 3. Work Performed by Arizona Public Service None Type Code Symbol Stamp ____ Authorization No. N/A 5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A "SI" Safety Injection 4. Identification of System 5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W175 Addenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired **ASME** Code Year National Other Manufacturer Name of Name of Stamped ٥r Board No. Identification Built Replacement Serial No. Manufacturer (Yes or No) Item Yes Replacement 2SI129H012 25362 N/A Pacific Scientific 3 Kip Snubber 7. Description of Work Snubber Replacement (No Welding) Exempt 📝 N-416-1 Pneumatic Nominal Operating Pressure 8. Test Conducted: Hydrostatic Test Temp. Other NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in.,

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.

WO#234409 Removed snubber Serial number 7321 and replaced it with serial number 25362
CERTIFICATE OF COMPLIANCE
tify that the statements made in the report are correct and this replacement conforms to the rule. SME Code, Section XI.
ode Symbol StampN/A
ate of Authorization No. N/A Expiration Date N/A
Phodap, ISI Engineer Date 6-5-2001
gwner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION Indersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel HSBI & I CO
tors and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u> [artford, Connecticut , have inspected the components described in this Owner's Report during iod <u>3-23-0\</u> to <u>6-5-0\</u> , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI.
the second as implies
ning this certificate, neither the Inspector nor his employer makes any warranty, expressed or impli- ning the examinations and corrective measures described in this Owner's Report. Furthermore, the inspector nor his employer shall be liable in any manner for any personal injury or property se or a loss of any kind arising from or connected with this inspection.
i o e .

ASME SECTION XI - REPAIR/REPLACEMENT								
	1. Component ID 2SG203H004 TOP 2. Code Class SECTION III Subsection NF Class 2							
3. Item Description 35 I								
4. N-5 Package Number	2AF02-2	5. W.O. Num	ber 235144					
6. Original Construction	Code Edition 1974 ED	ITION THRU WINTER 1	975 ADDENDA					
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA								
8. Work Description Replace Snubber								
	NDE M	ethod of Flaw Detection _						
9. 🔲 ISI Flaw	NDE W							
10. Evaluation of the su	itability of this work as po	er the requirements of IAW						
Not a failure. Chan	ged for precautionary me	easures. This is a like for l	ike repalcement					
		,						
	t Work Organization Al							
12. Replacement Item C	Construction or reconcile	d Code/Edition 1974 EDI	TION THRU WINTER	1975 ADDENDA				
13. Repair/Replacemen	t Activity Construction C	ode/Edition 1974 EDITIC	N THRU WINTER 197	5 ADDENDA				
14. ASME Section XI C	ode/Edition 1992 Edition	on and 1992 Addenda						
15. Preservice Inspecti	on Required.	☐ YE						
Dung 3.3-202 Initial Date	/ If required, include	e a step in the W.O. to per	form Preservice Inspecti	on.				
16. ASME Section XI P	ressure Test Required	☐ YE	s 🗹 NO					
Nr47 3-8-20	If required, include	e a step in the W.O. for ISI	& ANII Inspection.					
	17. Include a step	in the W.O. to complete !	NIS-2 Form prior to relea	sing the component.				
Jartial Date		o in the W.O. to record beli	ow all applicable number	s for repaired or				
Initial Date	replacement i	SERIAL NO.	HEAT NO.	MR/ROS NO.				
2SG203H004 TOP	N/A	12932	N/A	N/A				
			·					
		·						
	2							
19. Planner	my mill		lame David Goodlet					
20. ISI Engineer	Signature	3/23/61 Print N	lame R. P.	INDAP				
20. ISI Eligineet	Signature	Date						
21. ANII	Signature	3-23-01 Print N	lame 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. Date 02/16/01 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 _____ Unit _____ 2. Plant Palo Verde Nuclear Generating Station 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None Authorization No. __ N/A 5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date "SG" Steam Generator 4. Identification of System 5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired ASME Code National Other Year Manufacturer Name of Name of Stamped or Board No. Identification Built Serial No. Manufacturer Item Replacement (Yes or No) 2SG203H004T 1983 Replacement Yes 12932 N/A 35 Kip Snubber Pacific Scientific 7. Description of Work Snubber Replacement (No Welding) N-416-1 Pneumatic Nominal Operating Pressure Exempt 🗹 8. Test Conducted: Hydrostatic Test Temp. Pressure ____ psi Other 🔲 NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

Remarks	WO#235144 Removed snubber Serial number 6306 and replaced it with serial number 12932
	CERTIFICATE OF COMPLIANCE
	tify that the statements made in the report are correct and this replacement conforms to the rules ISME Code, Section XI.
Type C	ode Symbol StampN
Certific	ate of Authorization No. N/A Expiration Date N/A
Signed	Owner or Owner's Designee, Title Date 6-05-2001
	Owner of Owner's Designed, The
	CERTIFICATE OF INSERVICE INSPECTION
l, the ι	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse
of <u>I</u> the pe	tors and the State or Province of Arizona and employed by HSBI & I CO. [artford, Connecticut], have inspected the components described in this Owner's Report during iod 3-23-01 to 4-5-01, and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's
inspector ofI the perbelief, Reported By sign concernithe	lartford, Connecticut, have inspected the components described in this Owner's Report during iod 3-23-01 to 4-5-01, and state that to the best of my knowledge and

	ASME SECTI	ON XI - REPAIR/I	REPLACEMENT	·				
1. Component ID 2JS	IBUV0659	2. Code Cl	ass ASME SECTION	III CLASS 2				
3. Item Description <u>4"</u>	SOV VALVE		4 - 4demokra					
4. N-5 Package Numbe	er <u>2SI09-3</u>	5. W.O. Nu	mber 2333124					
6. Original Construction	6. Original Construction Code Edition 1974 EDITION & 1976 SUMMER ADDENDA							
7. Original Installation Code Edition 1974EDITON & 1975 WINTER ADDENDA								
$\frac{\overline{\mathbf{U}}}{\mathbf{V}}$	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 M	ethod of Flaw Detection						
		Report Number						
10. Evaluation of the su	uitability of this work as p	er the requirements of IA	W-4150.	(7				
No-failure	of the pressur	e reterining pa	vt. Replacemen	+ is for				
7/19/84/10	9 0, 100	3 43 10 0 (30)	71-6					
	nt Work Organization AI							
12. Replacement Item (Construction or reconciled	d Code/Edition 1974 ED	ITION & 1976 SUMM	ER ADDENDA				
13. Repair/Replacemer	nt Activity Construction Co	ode/Edition 1974 EDITI	ON & 1975 WINTER A	ADDENDA				
)14. ASME Section XI C	ode/Edition 1992 EDIT	ION & 1992 ADDENDA	<u> </u>					
15. Preservice Inspecti	ion Required.		ES	ction.				
16. ASME Section XI P	ressure Test Required	☑ Y						
Seo 1/241	f required, include	a step in the W.O. for IS	I & ANII Inspection.					
Initial Date 124/	<u>′໐ຌ</u> 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	easing the component.				
Initial Date Initial Date 1/24/	•	in the W.O. to record be						
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
MAIN DISC	300328-1	55	1G7615					
19. Planner Lee	ald Osmich	1/34/03 Print N	Name GERALD OSMU	JNDSON				
20. ISI Engineer	Signature //		Name RP					
21. ANII	(Signature	ा-२भ-०२ Print N	Name R.G. Hogs	TROM				
PV-E0093 Ver 6		W		73DP-9ZZ17				

PV-E0093 Ver. 6

1. Owner <u>Arizona P</u>	ublic Service Con	npany, et. al.			Date		12/17/01	:
P.O. Box	53999, Phoenix, A	^{ame} <u>Arizona 85072</u> ^{ddress}	-2034		Sheet	1	of	2
2. Plant Palo Verd	le Nuclear Genera	ting Station	***************************************		Unit		2	
5801 S. V	Vintersburg Rd., T	' <u>onopah, Arizo</u> ^{Idress}	ona 85354-	<u>7529</u>			2333124 Work Order Number	
3. Work Performed by	APS				Type Cod	de Sym	nbol Stamp	None
Name Name							o. <u>N</u>	I/A
5801S. WINTERSBURG RD, TONOPAH, ARIZONA					Expiration	n Date	N	<u>/A</u>
4. Identification of Sys	CT ACMI	^{ddress} E SECTION II	I, CLASS	2				
5. (a) Applicable Con		***			S 76	Adde	nda.	Code Case
	istruction Code <u>SEC</u>							
.,,,						·-·· <u>_1</u>	,,,,,	
6. Identification of Co	mponents Repaired o	r Replaced and R	Replacement (Compo	onents			
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	C	Other tification	Year Built	Repaired or Replacemen	ASME Code Stamped (Yes or No)
MAIN DISC	TARGET ROCK	55	الم الم	1		1 :	Replacement	1
		·			···			
			<u> </u>					
				 				
		<u></u>	<u></u>	<u> </u>		<u></u>		
7. Description of Wor	k REPLACE VA	LVE INTERN	ALS WITH	H SPA	ARE VA	LVE	INTERNAL	<u>S</u>
8. Test Conducted:	Hydrostatic 🔲 F	Pneumatic 🔲	Nominal Op	erating	, Pressure		Exempt	N-416-1 🔲
	Other	Pressure	psi			Test T	emp.	°F
(2) information in it	ntal sheets in form o tems 1 through 6 on ets is recorded at th	this report is in	icluded on e	s may ach sł	/ be used heet, and	, provi	ded (1) size is ιch sheet is nu	8 1/2 x 11 in., Imbered and

		FORM NIS-2 (Back)
. Rem	arks	REPLACED VALVE INTRENALS (MAIN DISC) DUE TO UNACCEPTABLE VALVE STROKING TIMES
		WO. 2333124
	,	CERTIFICATE OF COMPLIANCE
of the	he As	fy that the statements made in the report are correct and this replacement conforms to the rules GME Code, Section XI. de Symbol Stamp
Cer	rtifica	te of Authorization No
Sig	ned_	R.L. Brownist SLB Date 4/9/02 Owner or Owner's Designee, Title
<u> </u>		
		CERTIFICATE OF INSERVICE INSPECTION
Ins	pecto Ha	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel are and the State or Province of <u>Arizona</u> and employed by <u>HSBI & I CO.</u> artford, Connecticut , have inspected the components described in this Owner's Report during to <u>A-Q-Q2</u> , and state that to the best of my knowledge and <u>Quarter and experience and taken corrective measures described in this Owner's Connecticut and the corrective measures described in this Owner's</u>

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 4-3-02 , 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.

Commissions 18 465 Acc 1 Az 264

National Board, State, Province, and Endorsements

Date 4-3-02

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 2PS	GEV026	2. Code Cla	ss ASME III, CLAS	S 2			
	KEROTEST GLOBE VA	LVE					
4. N-5 Package Number	er <u>2SG01-1A</u>	5. W.O. Nur	mber <u>2336022</u>				
	n Code Edition <u>1974 EDI</u>						
7. Original Installation	Code Edition 1974 EDIT	ION, WINTER 1975 AD	DENDA				
8. Work Description W	eld replacement of valve.						
9. 🔲 ISI Flaw	NDE Me	ethod of Flaw Detection _					
		·	A. 4450				
	uitability of this work as pe ASME Sec. III boundary.						
140 faithfe iii file A	101v111 000. 111 ooundary.	- Topiaeomon to					
11 Panair/Panlacemen	nt Work Organization PV	NGS maintenance denar	tment.				
	Construction or reconciled			. S'76 ADD.			
	construction or reconclied nt Activity Construction Co						
	nt Activity Construction Co Code/Edition <u>1992 EDITI</u>						
			_				
15. Preservice Inspect		۲ 🎩 a step in the W.O. to pe					
DMG 01/22/		, a step in the w.o. to pe					
16. ASME Section XI F	Pressure Test Required	☑ Y					
DMG 01/22/		a step in the W.O. for IS					
DMG 01/22/	17. Include a step	in the W.O. to complete					
DMG 01/22/	/02 18. Include a step	in the W.O. to record be	low all applicable numl	bers for repaired or			
Initial Date	replacement it	SERIAL NO.	HEAT NO.	MR/ROS NO.			
2PSGEV026	ARZ-D-215166-(2)	E522R-1-2	NA	634930-001			
19. Planner	Duy Purdle		Name David Goodlet				
	Signature	2-1-02 Print	Name Ramakant Indap	•			
20. ISI Engineer	Signature	Date Print	ivame Kamakam mua				
21. ANII	D'Aystone	2-1-0:2 Print	Name <u>Robert Hogstro</u>	<u>m</u>			
	Sighature	Dale					

1. Owner <u>Arizona I</u>	Public Service Con	npany, et. al.			Date		04/08/02	
<u>P.O. Box</u>	53999, Phoenix, A	Arizona 85072 Idress	-2034		Sheet	1	of	
2. Plant Palo Verd	ie Nuclear Genera	ting Station			Unit		2	:
5801 S. V	Vintersburg Rd., T	^{ame} ' <u>onopah, Arizo</u> ddress	na 85354-7	7529		V	VO# 2336022 Vork Order Number	
		34.00 0						None
3. Work Performed by Palo Verde Nuclear Generating Station							o. $N/$	
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529								
	A	ddress						
4. Identification of Sys	stem <u>SG - Feed</u>	water system,	wet layup.	<u> </u>		·		
5. (a) Applicable Con	struction Code ASM	IE Class 2	19 <u>74</u> E	Edition	, <u>S'76</u>	Adde	nda,	Code Case
(b) Applicable Edit	ion of Section XI Utiliz	ed for Repairs or	Replacemen	ts 19	92 Edit	ion, <u>1</u>	.992 Adder	nda
		. Dealers dead D	amla aa (`am=	nonto			
6. Identification of Co	mponents Repaired or	r Replaced and R	eplacement C	ompo	nents			1401 (F.O. J.
Name of	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Ideni	Other tification	Year Built	Repaired or Replacement	ASME Code Stamped
Item		E522R-1-2	N/A		GEV026	ļ	Replacement	3
Valve	Kerotest	E322K-1-2	IN/A	2F3(UE V UZU	04	Replacement	103
	D 1	. 1						
7. Description of Wor	k Replacement of	vaive.		· · · · · · · · · · · · · · · · · · ·				
8. Test Conducted:	Hydrostatic	Pneumatic 🔲	Nominal Op	erating	g Pressure	. 🗀	Exempt 🔲	N-416-1 🗹
	Other 🔲	Pressure ///	psi e			Test T	emp. //07	_° _F
	-	7.4.5	 ·					
NOTE: Supplemen	ntal sheets in form o	f lists, sketches	, or drawing	s may	y be used	l, provi	ided (1) size is	8 1/2 x 11 in.,
(2) information in i	tems 1 through 6 or ets is recorded at th	this report is in	cluded on e	ach s	heet, and	l (3) ea	ach sheet is nu	mbered and
the number of she	eto io recorded at th	ie top or tries for						

Remarks	WO# 2336022 for disass Valve replacement due t		and rework of	2" Kerotest valve to corre	ect seat leaka
	C	CERTIFICATE O	F COMPLIA	ANCE	
	fy that the statements mad SME Code, Section XI.	de in the report are	correct and th	nis replacement conform	ns to the rule
Certifica	te of Authorization No	N/A		Expiration Date Date	
Signed	W.C 43/ESCOSD //S	vner or Owner's Designee, T			
Signeu	Jow		itle		
I, the un Inspecto of <u>Ha</u> the period belief, th	CERTI dersigned, holding a valid ars and the State or Provintertford, Connecticut and, ad	FICATE OF INS commission issued ace of Arizona a have inspected the examinations and tal	ERVICE IN by the Nation and employed components of, and starken corrective	ISPECTION The property of Boiler and Propert	essure Vesso Report during nowledge an
I, the un- Inspecto of <u>Ha</u> the period belief, th Report in By signific concern- neither t	CERTI dersigned, holding a valid ars and the State or Provin artford, Connecticut and 2-1-02 to be Owner has performed en accordance with the required the control of the	representation of the Assertation of the Assertatio	by the Nation and employed components of the Code, See the corrective of the Code, See the code of the Code, See the code of the Code	ISPECTION The property of the control of the contr	essure Vesson Report during nowledge and nis Owner's essed or implicate

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 2PS	SIAV450	2. Code C	Class 2				
3. Item Description S:	HUTDOWN HEAT EXC	CHANGER "A" TO FUE	L POOL ISOLATION V	ALVE			
4. N-5 Package Numb	per 2SI07-3	5. W.O. N	umber <u>2370758</u>				
6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD							
7. Original Installation	Code Edition ASME SE	ECT. III, CL 1974 EDI	ITION W'75 ADD				
8. Work Description F	REPLACE THE BONNE	T STUDS AND NUTS P	PER THE DISPOSITION	OF DFWO 2364311			
_							
9. 🔟 ISI Flaw	NDE N						
10 Evaluation of the c	uitability of this work as p	Report Number					
Nickel Date	ed carbonsteels	stads. Linuts an	etelno oeplace	ed weith			
comosion	resistant mater	Mal studs anuts	s as a precaul	son;			
11. Repair/Replaceme	nt Work Organization A	RIZONA PUBLIC SERV	VICE				
12. Replacement Item	Construction or reconcile	d Code/Edition_ASME	SECT. III, CL 2 1974 EI	DITION W'75 ADD			
13. Repair/Replaceme	nt Activity Construction C	ode/Edition ASME SEC	CT. III, CL 2 1974 EDITI	ON W'75 ADD			
14. ASME Section XI C	Code/Edition ASME SE	CT. III, CL 2 1992 EDI	TION 92 ADD				
15. Preservice Inspect	tion Required.		YES 🗹 NO				
JD 02/08/	02 If required, include	e a step in the W.O. to pe	erform Preservice Inspect	tion.			
16. ASME Section XI F	Pressure Test Required		YES 🗹 NO				
JD 02/08/		e a step in the W.O. for IS	SI & ANII Inspection.				
JD 02/08/		in the W.O. to complete	NIS-2 Form prior to relea	asing the component.			
JD02/08/			elow all applicable numbe	rs for repaired or			
Initial Date	replacement i	SERIAL NO.	HEAT NO.	MR)ROS NO.			
#1 'STUDS	77203-17		CODE - JBW	618364			
#3 NUTS	72184-16		CODE-KKB	618364			
	· ·						
19. Planner	fla	2-8-00 Print	Name JAMES I. DAVIS				
20. ISI Engineer	Signature	2 13 62 Print	Name R.P.IN	DAP			
21. ANII	Signature	2-13-02 Print	Name R.G. Hogstr	om			
	Signature	Date					

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner <u>Arizona Public Service Company</u>, et. al. Date <u>3-27-02</u> P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 2 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2370758 Work Order Number 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None Authorization No. N/A 5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7525 Expiration Date N/A Safety Injection 4. Identification of System 5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 Edition, W75 Addenda, Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired ASME Code Year Manufacturer National Other Name of Name of Stamped or Board No. Identification Built Manufacturer Serial No. Item Replacement (Yes or No) Yes 2PSIAV450 1979 Repaired Valve Borg-Warner 44697 1296 2002 Replacement No N/A N/A 2PSIAV450 Bonnet Studs N/A No N/A N/A 2PSIAV450 2002 Replacement N/A Bonnet Nuts 7. Description of Work Replace the bonnet studs and nuts per the disposition of DFWO 2364311. Pneumatic Nominal Operating Pressure Exempt N-416-1 N-416-1 8. Test Conducted: Hydrostatic Test Temp. °F Other Pressure psi NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

73DP-9ZZ17

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

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 cambe isolated for gasket or packing replacement.
	CERTIFICATE OF COMPLIANCE
	tify that the statements made in the report are correct and this repair conforms to the rule ASME Code, Section XI.
Туре С	ode Symbol Stamp N/A
Certific	ate of Authorization No. N/A Expiration Date N/A
Signed	Though Consulting Met. Engineer Date 3/27/02
	V Owner or Owner's Designee, Title
·	
Inspect of <u>H</u> the per belief, t	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u>
Inspect ofH the per belief, t Report By sign concern neither	ndersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse ors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> artford, Connecticut, have inspected the components described in this Owner's Report during iod <u>2-13-02</u> to <u>3-25-02</u> , and state that to the best of my knowledge and he Owner has performed examinations and taken corrective measures described in this Owner's

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		mber <u>2370759</u>					
	6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD						
7. Original Installation Code Edition ASME SEC	7 15 1	2/13/ <i>02</i>					
8. Work Description REPLACE THE BONNET	,		OF DFWO 2364311				
9. ISI Flaw NDE Me	ethod of Flaw Detection _						
	Report Number						
10. Evaluation of the suitability of this work as pe	er the requirements of IAV	W-4150.					
slickel plated carteen steel s	stude Routs are	being peoprice	funding				
corresion resistant, stude &	cinuts as a prei	aution: Y	PP 2/13/02				
11. Repair/Replacement Work Organization AR	IZONA PUBLIC SERV	ICE					
12. Replacement Item Construction or reconciled			DITION W'75 ADD				
13. Repair/Replacement Activity Construction Co							
14. ASME Section XI Code/Edition ASME SEC							
15. Preservice Inspection Required.		ES 🗹 NO					
	a step in the W.O. to pe		tion.				
Initial Date		F=3.					
16. ASME Section XI Pressure Test Required	-	ES NO					
Initial Date	a step in the W.O. for IS						
JD 02/08/02 17. Include a step	in the W.O. to complete						
JD02/08/02 18. Include a step	in the W.O. to record bel	low all applicable numbe	ers for repaired or				
ITEM I.D. PART NO.	ems. SERIAL NO.	HEAT NO.	MR/ROS NO.				
1 Studs 77203-17		CODE-JBW	618366-0002				
nuts 3(51EA) 72184-16		CODE-KKB	618366-0004				
nuts 3 (9 EA) 72184-16		CODE-1YH	618366-0004				
	7-5-07-	Lang IAMERI DATE	7				
19. Planner Signature	D + 4 -	Name JAMES I. DAVIS					
20. ISI Engineer Andap	3/13/02 Print P	Name R.G. Hogs	TNOAP				
21 ANII Lystum	2-12-07 Drint !	Name R.G. Hops	TROM				
21. ANII Signature	Date						

As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 4-5-02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 2 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

2370759

Work Order Number 3. Work Performed by Arizona Public Service Type Code Symbol Stamp None Authorization No. ___ N/A 5801 S. Wintersburg Rd., Tonapah, Arizona 85354-7529 Expiration Date N/A Safety Injection 4. Identification of System 5. (a) Applicable Construction Code ASME Sec III, Cl 2 19 74 Edition, W75 Addenda, _____ Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components ASME Code Repaired Year Name of Manufacturer National Other Name of Stamped Manufacturer Serial No. Board No. Identification Built Item (Yes or No) Replacement 2PSIBV454 1979 Repaired Yes Borg-Warner 44698 1297 Valve No Replacement N/A N/A N/A 2PSIBV454 2002 Bonnet Studs 2002 Replacement No 2PSIBV454 N/A N/A Bonnet Nuts N/A 7. Description of Work Replace the bonnet studs and nuts per the disposition of DFWO 2364311. Pneumatic Nominal Operating Pressure Exempt 🔀 N-416-1 8. Test Conducted: Hydrostatic Test Temp. °F Pressure psi Other 🔲 NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in.,

(2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

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

		FORIVI NIS-2 (Back)
).	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
		fy that the statements made in the report are correct and this repair conforms to the rules SME Code, Section XI.
	Type Co	de Symbol Stamp N/A

N/A

Certificate of Authorization No.

CERTIFICATE OF INS	ERVICE INSPECTION					
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vesse Inspectors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have inspected the components described in this Owner's Report during the period <u>2-13-02</u> to <u>4-5-02</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.						
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Institute C	National Board, State, Province, and Endorsements					
Date4-5-02						

N/A

Expiration Date __

	ASME SECTI	ON XI - REPAIR/F	REPLACEMENT			
1. Component ID 2JS	IAFE0338	2. Code Cla	ass ASME III CLASS	S 2 1974 w/W75		
3. Item Description <u>Co</u>	ontainment Spray Pump '	A" Discharge Flow Eleme	ent			
4. N-5 Package Numb	er <u>2-SI08-03</u>	5. W.O. Nur	mber <u>2384999</u>			
6. Original Construction Code Edition ASME Sect. III Class 2 1974 W/ Winter '75 Addenda						
7. Original Installation	7. Original Installation Code Edition ASME Sect. III Class 2 1974 W/ Winter '75 Addenda					
	emove flow element and annubar IAW DMWC	approximately 2 foot of u 0 2316467	pstream piping, install	new flange, spool,		
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection _				
10. Evaluation of the s	uitability of this work as n	Report Number er the requirements of IAV				
Replacement is IA	W DMWO 2316467 - e with ancher	Mod. is to oct to minimize he	place existing	fow orifice 22/12/02		
11. Repair/Replacemer	nt Work Organization A	rizona Public Service Com	npany			
12. Replacement Item (Construction or reconcile	d Code/Edition ASME Se	ect. III Class 2 1974 W	/ Winter '75 Addenda		
13. Repair/Replacemer	nt Activity Construction C	ode/Edition ASME Sect I	II Cl 2 1974 w/ W '75	Ad,Code Case N-416-1		
14. ASME Section XI C	ode/Edition 1992 Edition	on and '92 Addenda		<u></u>		
15. Preservice Inspect		☑ YI e a step in the W.O. to per	_			
16. ASME Section XI P	ressure Test Required	☑ YE	s 📮 NO			
	If required, include	a step in the W.O. for ISI	& ANII Inspection.			
Initial Date	0೭ 17. Include a step	in the W.O. to complete I	NIS-2 Form prior to rel	easing the component.		
Initial Date Date Control Con	18. Include a step	in the W.O. to record belotens.	ow all applicable numb	ers for repaired or		
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	A 7 7	0061695-2001		
10" FLANGE			AZP	00616994-000		
19. Planner	n El hoore	2/(2/02 Print N	ame Glenn E. Moore			
20. ISI Engineer	Signature Photograp	Date	ame R.P. In	IDAP		
21. ANII 45	Signature		ame Robert Hogstron	ı		
		Date				

PV-E0093 Ver. 6

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1. Owner Arizona Public Service Company, et. al.							02/08/02	
	53999, Phoenix, A							1
2. Plant Palo Verd	de Nuclear Genera	ting Station			Unit		2	
	Wintersburg Rd., T					23	ડેજ ય ૧૧૧ ૧	
	А	ddress				,	Work Order Number	
3. Work Performed by		Service Compa	ıny		Type Co	de Syn	nbol Stamp	None
	14	anie			Authoriza	ation N	o. <u>N</u>	'A
P.O. Box	53999, Phoenix,	Arizona 8535	4-7529		Expiratio	n Date	N/2	<u> </u>
4. Identification of Sys	stem Safety Inje	ection System	(SI) ASMI	E Sect	. III Cla	ss 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.	O Ident	ther ification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Flanged Pipe Section	Dietrich Standard	13689.2.1					Replacement	Yes
Annubar Flow Elemt	Dietrich Standard	13689.1.1	NA	2)SIA	FE0338	2002	Replacement	Yes

	4							
	1818							
7. Description of Wor	k Remove flow el	ement and sec	tion of pipe	e and i	install n	ew sp		
8. Test Conducted:	Hydrostatic F	neumatic 🛄	Nominal Ope	erating	Pressure	Y	Exempt	N-416-1 🗹
	Other	Pressure	psi			Test Te	emp	_°F
(2) information in it	tal sheets in form of ems 1 through 6 on ets is recorded at the	this report is inc	cluded on ea	s may ach sh	be used, eet, and	provid (3) ea	ded (1) size is 8 ch sheet is nun	3 1/2 x 11 in., nbered and

FORM NIS-2 (Back)

	of piping. This will be re element.	338 to be removed along placed with a new flange	with upstream flange and approx and spool assembly containing a	simately 2 feet in annubar
	C	ERTIFICATE OF CO	MPLIANCE	ws- w
1	fy that the statements mad SME Code, Section XI.	de in the report are correct	and this replacement conformation repair or replacement	ns to the rules
Type Co	de Symbol Stamp	N/A		
1	te of Authorization No.	N/Δ	Expiration Date	N/A
	FFINDAY, OI	NSUI FENG ME Fallce ner or Owner's Designee, Title	rojkal Ewineer Date 4-	-5-02
L			A	
<u></u>		to the second se		
	CERTIF	FICATE OF INSERVIO	CE INSPECTION	
1				
			National Board of Boiler and Pre ployed byHSB CT	essure Vessel
Inspector of Harthe period belief, the	rs and the State or Provinc rtford, Connecticut , had d 2-12-02 to	e of <u>Arizona</u> and emaye inspected the compore 4-5-02, are aminations and taken contains	ployed by HSB CT nents described in this Owner's find state that to the best of my knective measures described in the	Report during and
Inspector of Har the period belief, the Report in By signin concerning	rs and the State or Province of the State or Province of the State or Province of the State of Province of the State of th	e of Arizona and emaye inspected the comportance inspected the comportance inspected the comportance in a second and taken continued in the ASME Continued in the continued in t	ployed by HSB CT ments described in this Owner's find state that to the best of my known rective measures described in the de, Section XI. If yer makes any warranty, expressions the definition of the described in this Owner's Report. Further anner for any personal injury or	Report during nowledge and his Owner's sed or implied, thermore,
Inspector of Har the period belief, the Report in By signin concerning	rs and the State or Province of the State or Province of the State or Province of the State of Province of the State of th	te of Arizona and empared inspected the comportance inspected the comportance in a caminations and taken confirments of the ASME Comportance in a confirment of the ASME confirments of the ASME confi	ployed by HSB CT ments described in this Owner's find state that to the best of my known rective measures described in the de, Section XI. If yer makes any warranty, expressions the definition of the described in this Owner's Report. Further anner for any personal injury or	Report during nowledge and is Owner's sed or implied, thermore, property

	ASME SECTI	ON XI - REPAIR/F	REPLACEMENT					
1. Component ID 2PS	GEV642	2. Code Cla	ass ASME III Class 2					
3. Item Description 8"	Anchor Darling Check \	Valve						
4. N-5 Package Number <u>2SG01-1A</u> 5. W.O. Number <u>wo# 2403895</u>								
6. Original Construction	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., Winte	r 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. Repow of damage (aused by debri (xg" dia by yg" deep approx.) on bonnet.								
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection						
		Report Number						
10. Evaluation of the su	2 is during	er the requirements of IA\ disastentl	y. No service					
damoje due to de	bri caught betu	+15/62. The creen body & bons	damage on the	e bonnet is				
11. Repair/Replacemer	nt Work Organization A	PS site maintenance group)					
12. Replacement Item 0	Construction or reconcile	d Code/Edition ASME II	I Class 2, 1974 Ed., S'75	Add.				
13. Repair/Replacemen	t Activity Construction C	ode/Edition ASME III Cl	lass 2, 1974 Ed., W'75 A	dd.				
14. ASME Section XI C	ode/Edition 1992 Edition	n and 1992 Addenda						
15. Preservice Inspecti	on Required.	☐ Y	ES 🗹 NO					
DMG 04/05/0	02 If required, include	e a step in the W.O. to pe	rform Preservice Inspecti	ion.				
16. ASME Section XI P	ressure Test Required	Y	ES 🗹 NO					
DMG 04/05/0	02 If required, include	a step in the W.O. for IS	I & ANII Inspection.					
DMG 04/05/0	17. Include a step	in the W.O. to complete	NIS-2 Form prior to relea	sing the component.				
DMG 04/05/0	18. Include a step	in the W.O. to record bel	ow all applicable number	s for repaired or				
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.				
2PSGEV642	N/A	2N1797	2176F SN12	N/A				
/ /								
19. Planner	Signature	4-5-02 Print N	Name David Goodlet					
20. ISI Engineer	Photop Signature	4/5/62 Print N	Name <u>Ramakant Indap</u>	i				
21. ANII	4 Amotion Signature	4-5-02 Print N	Name Robert Hogstrom					

1. Owner <u>Arizona</u> l	Public Service Co	mpany, et. al.			Date		04/0	5/02	
	53999, Phoenix,								
2. Plant Palo Ver	de Nuclear Genera	ating Station			Unit		2	2	
	Wintersburg Rd., T	_{lame} Tonopah, Arizo				7		3895	
	Д	ddress				,	work Order IN	umber	
3. Work Performed by		lear Generating	g Station		Туре Со	de Syn	nbol Stamp	·	None
					Authoriza	ation N	0	N/	<u>'A</u>
5801 S. V	Wintersburg Rd.,	Γonopah, Arizo	ona 85354-	7529	Expiratio	n Date		N/A	<u> </u>
4. Identification of Sys	CC for the								
	•	4T. Cl 2			011:07:5				0-4-0-
5. (a) Applicable Cor	·	and the second of the second o	and a second						
(b) Applicable Edit	tion of Section XI Utiliz	zed for Repairs or	Replacemen	nts 19	92 Edit	ion, _]	1992	Adden	da
6. Identification of Co	mponents Repaired o	r Replaced and R	eplacement (Compo	nents .				
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	C Ident	ther ification	Year Built	Repai or Replace		ASME Code Stamped (Yes or No)
Check Valve	Anchor/Darling	2N1797	NA	1	GEV642	!	Repaired		Yes
			-						
					1,400,1500				
									-
7. Description of Wor	k Weld build-up t	o scratch in va	ilve body &	z boni	net caus	ed dur	ring disas	ssemb	oly.
8. Test Conducted:	Hydrostatic 🔲 F	Pneumatic 🔲	Nominal Ope	erating	Pressure		Exempt [<u> </u>	N-416-1 🔲
	Other 🔲	Pressure	psi			Test T	emp.		_°F
(2) information in it	ntal sheets in form o tems 1 through 6 on ets is recorded at th	this report is in	cluded on e						

. 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 approx. 1/8" deep depression x 1/8" diameter in bonnet.
1	CERTIFICATE OF COMPLIANCE ify that the statements made in the report are correct and this repair conforms to the rule same conforms. SME Code, Section XI.
**	ode Symbol Stamp N/A ate of Authorization No. N/A Expiration Date N/A PEROLEN Consulting Metallurgical Engineer Date 4/10/02 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 4-5-oz to 4-10-oz , 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 NS 4685 "ANIC" Az 264 Inspector's Signature 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 DIF	3. Item Description DIESEL GENERATOR JACKET WATER COOLER							
4. N-5 Package Number <u>2DG01-2</u> 5. W.O. Number <u>2420356</u>								
6. Original Construction	Code Edition ASME SE	ECTION III, CLASS 3 19	74, SUMMER 1976 AI	DDENDA				
7. Original Installation C	Code Edition <u>ASME SEC</u>	CTION III CLASS 3 1974	I, WINTER 1975 ADDI	ENDA				
8. Work Description Wo	8. Work Description Weld build up of corroded areas on the Jacket Water Cooler end cover.							
_								
9. 🔲 ISI Flaw	NDE Me	ethod of Flaw Detection _						
		•						
10. Evaluation of the su	itability of this work as pe ired due to exceeding the	r the requirements of IAV	v-4150. s of cover due to corrosi	on caused by				
holiday in the coati	ngs. Repaired areas to be	coated with belzona, wh	ich has been proven to p	protect the surface of				
thecoolers.								
				^				
l e e e e e e e e e e e e e e e e e e e	t Work Organization AP		TYON CITY OF CORE					
` · · · · · · · · · · · · · · · · · · ·	Construction or reconciled							
•	t Activity Construction Co		1974 EDITION, WINT	TER 1975 ADDENDA				
14. ASME Section XI Co	ode/Edition 1992 EDITI	ON, 1992 ADDENDA						
15. Preservice Inspecti	on Required.		ES 🗹 NO					
Initial Date	If required, include	a step in the W.O. to per	form Preservice Inspec	tion.				
16. AŞME Section XI Pı	ressure Test Required	☑ YI	es 🔲 NO					
Ach 3/20/20	If required, include	a step in the W.O. for ISi	& ANII Inspection.					
Initial Date 3/22/26	17. Include a step	in the W.O. to complete	NIS-2 Form prior to relea	asing the component.				
Inftial Date 3/22/24	18. Include a step		ow all applicable numbe	ers for repaired or				
Initial Date	replacement it	· · · · · · · · · · · · · · · · · · ·	HEAT NO.	MR/ROS NO.				
ITEM I.D. CHANNEL COVER	PART NO. 4-500-19-515-002	SERIAL NO. N/A	N/A	N/A				
CHANNEL COVER	1 300 12 010 002							
17		34.4. 2:11	11 2	<u> </u>				
19. Planner	Signature	, .	Name <u>Alema C</u>	- Part Street				
20. ISI Engineer	Thaap	3/23/02 Print 1	vame R.P.II	NPAP				
1 Oh	Signature	/ Uate	Name R Ge. Hoce	:=e :::				
21. ANII 📉	Signature	Date	value R. C. ADC	31 /				

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 03/21/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 _____ Unit _____ 2. Plant Palo Verde Nuclear Generating Station 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None Authorization No. _ N/A N/A 5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 Expiration Date Diesel Generator (DG) 4. Identification of System 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 **ASME Code** Repaired Year Manufacturer National Other Name of Name of Stamped Manufacturer Serial No. Board No. Identification Built Item Replacement (Yes or No) 1979 Yes 2MDGAE05 Repaired dg jacket water cooled American Standard 9D702 33117 7. Description of Work Weld build up of corroded channel head. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 Test Temp. Other Pressure psi NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

	FORM NIS-2 (Back)
Remarks	WORK ORDER # 2420356
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF COMPLIANCE
1	ify that the statements made in the report are correct and this repair conforms to the rules SME Code, Section XI.
Type Co	ode Symbol StampN/A
	ite of Authorization No. <u>N/A</u> Expiration Date <u>N/A</u>
Signed	PAPPORAD, Gonshifting Metallurgical Engineer Date 3/37/02 Owner or Owner's Designee, Title
of <u>Ha</u> the period belief, the	CERTIFICATE OF INSERVICE INSPECTION dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel ors and the State or Province of Arizona and employed by HSB CT artford, Connecticut, have inspected the components described in this Owner's Report during and 3-22-02 to 3-27-02, and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's in accordance with the requirements of the ASME Code, Section XI.
concern neither	ng this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ing the examinations and corrective measures described in this Owner's Report. Furthermore, the Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
	Commissions 18 9685 ANIC Az 264 Appector's Signature Commissions 18 9685 ANIC Az 264 National Board, State, Province, and Endorsements
Date_	3-27-02
<u></u>	

		XI - REPAIR/RE			
1. Component ID 2MDGA	AE04	2. Code Class	ASME III, CLASS 3	<u>-</u>	
a trans Description DIESE	L 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 6. Original Construction Code Edition ASME SECTION III, CLASS 3 1974, WINTER 1975 ADDENDA					
	-d- Edition ASME SEC	TION III, CLASS 3 137	+, SOMMALE 12 . s c -	ENDA	
- a : Installation Coo	le Edition ASME SECT	ION III CLASS 3 1974,	WINTER 1979 (1222	DA	
Work Description Weld	build up of corroded are	as on the Lube Oil Coole	er end cover.		
8. Work Description					
9. ISI Flaw	NDE Meti	nod of Flaw Detection			
		Report Number			
10. Evaluation of the suita	bility of this work as per	the requirements of IAW-	4150.	caused by	
Weld build up requir	ed due to exceeding the	minimum wall thickness coated with belzona, which	th has been proven to pro	otect the surface of	
holiday in the coating the coolers.	gs. Repaired areas to occ				
11. Repair/Replacement	Work Organization APS			222124	
		Code/Edition 1974 EDIT	ION SUMMER 19702	TO DEL COLO	
12. Replacement Item Co13. Repair/Replacement	Activity Construction Cod	de/Edition SECTION III	1974 EDITION, WINT	ER 1975 ADDENDE	
14. ASME Section XI Co.	de/Edition 1992 EDITIO	ON, 1992 ADDENDA			
	- Desuired	Ų YE			
15. Preservice Inspectio	n Required. If required, include	a step in the W.O. to per	form Preservice Inspect	ion.	
			=s 🗀 NO		
16. ASME Section XI Pro	essure Test Required	YE YE			
12 3/28/12 Date	If required, include	a step in the W.O. for ISI	NIS-2 Form prior to relea	asing the component.	
Initial 3/22/20	17. Include a step	in the W.O. to complete	and applicable number	ers for repaired or	
Initial Date	18. Include a step replacement it	in the W.O. to record bel	ow all applicable number		
Initial Date	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.	
CHANNEL COVER	4-500-19-515-002	N/A	N/A	IVA	
O.M. 3.					
	//				
1/	dh	S/22/2000 Print	Name Clean E	polocite.	
19. Planner	Signature	Data		dan	
20. ISI Engineer	Frago	3/22/62 Print	Name		
\sim	Signature	3-22-02 Print	Name R.P. In	TROM	
21. ANII	Signature	Date		73DP-9ZZ1	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner <u>Arizona Public Service Company</u>, et. al. Date <u>03/21/02</u> P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2420360 Work Order Number None 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp Authorization No. N/A 5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 Expiration Date N/A Diesel Generator (DG) 4. Identification of System 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 ASME Code Repaired Manufacturer National Year Other Name of Name of Stamped Board No. Identification Built Replacement Serial No. Item Manufacturer (Yes or No) 9D2704 33118 2MDGAE04 1979 Repaired Yes American Standard dg lube oil cooler 7. Description of Work Weld build up of corroded channel head Pneumatic Nominal Operating Pressure Exempt N-416-1 8. Test Conducted: Hydrostatic Pressure psi Test Temp. Other

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

		FORM NIS-2 (Back)
9. F	Remarks	WORK ORDER # 2420360
		CERTIFICATE OF COMPLIANCE
		by that the statements made in the report are correct and this repair conforms to the rules impair or replacement conforms to the rules repair or replacement conforms to the rules impair or replacement conforms to the rules repair or repair or replacement conforms to the rules repair or
	Type Co	de Symbol StampN/A
		e of Authorization No. N/A Expiration Date N/A
	Signed_	PP frag (on Sulfiag M) et allurgial Eng. Date 3/27/02
		CERTIFICATE OF INSERVICE INSPECTION
	Inspector of <u>Ha</u> the period belief, the	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> and this Owner's Report during to <u>3.22-02</u> to <u>3.27-02</u> , and state that to the best of my knowledge and the Owner has performed examinations and taken corrective measures described in this Owner's accordance with the requirements of the ASME Code, Section XI.
	concerni neither th	ng this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ing the examinations and corrective measures described in this Owner's Report. Furthermore, ine Inspector nor his employer shall be liable in any manner for any personal injury or property or a loss of any kind arising from or connected with this inspection.
		Commissions National Board, State, Province, and Endorsements
	Date	3-27-02

ASME SECTION XI - REPAIR/REPLACEMENT						
1. Component ID 2MD	GBE04	2. Code Cla	ss ASME SECTION I	II CLASS 3		
3. Item Description DIESEL LUBE OIL COOLER						
4. N-5 Package Number <u>2DG02-8</u> 5. W.O. Number <u>2420361</u>						
6. Original Construction	6. Original Construction Code Edition ASME SECTION III, CLASS 3,1974, SUMMER 1976 ADD					
=		CLASS 3, 1974 WINTE				
8. Work Description W	eld build up of corroded	areas on the Lube Oil coo	ler inlet/outlet covers.			
_						
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection _				
10 Evaluation of the su	itability of this work as n	er the requirements of IAV				
Weld build up requ	ired due to exceeding m	inimum wall thickness of	cover due to corrosion	caused by holiday in		
coatings, repair are	as to be coated with Bela	zona which has been prov	en to protect the surface	es of the coolers.		
11. Repair/Replacemen	t Work Organization Al	PS				
	•	d Code/Edition 1974 EDI	TION SUMMER 1976	ADDENDA		
		ode/Edition 1974 EDITIO				
14. ASME Section XI Co	ode/Edition 1992 EDIT	ION 1992 ADDENDA				
15. Preservice Inspecti	on Required.	☐ Y	ES 🗹 NO			
		e a step in the W.O. to pe	rform Preservice Inspec	tion.		
16. ASME Section XI P		Ø Y				
	•	a step in the W.O. for IS				
/ Initial Date		in the W.O. to complete		asing the component.		
nitial Date	ು = 18. Include a step	in the W.O. to record be	ow all applicable numbe	ers for repaired or		
/ Initial Date	replacement i	tems.	HEAT NO.	MR/ROS NO.		
ITEM I.D. CHANNEL COVER	PART NO. 4-50019-515-002	SERIAL NO.	HEAT NO.	WINTIOS NO.		
19. Planner Alex & Moore Print Name 6/enn & Moore						
Signature Date P T T T T T T T T T T T T T T T T T T						
20. ISI Engineer 3/29/02 Print Name TINDAT 21. ANII 3-21-02 Print Name 2.6. Houston						
21. ANII	21. ANII Signature Date Print Name K.C. Houston					

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 03/29/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit ______ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None Authorization No. N/A 5801 S. Wintersberg Rd, Tonopah, Az 85354-7529 Expiration Date N/A Diesel Generator (DG) 4. Identification of System 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 **ASME Code** Repaired Year Manufacturer National Other Name of Name of Stamped Board No. Identification Built Replacement Item Manufacturer Serial No. (Yes or No) 1978 Repaired 8C2804 31981 2MDGAE04 Yes dg lube oil cooler American Standard 7. Description of Work WELD REPAIR OF THE CORRODED CHANNEL HEAD (COVER). Pneumatic Nominal Operating Pressure Exempt N-416-1 🗹 8. Test Conducted: Hydrostatic Pressure ___ psi Test Temp. Other NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

PV-E0092 Ver. 7 73DP-9ZZ17

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

			(Back)	
Remarks	WORK ORDER #-2420	360-4 24203		
	C	CERTIFICATE OF CO	DMPLIANCE	
	fy that the statements mad SME Code, Section XI.	de in the report are corre	ct and this repair confo	orms to the rule
Type Co	de Symbol Stamp	N/A		
Certifica	te of Authorization No	N/A	Expiration Date Date	N/A
Cianad	alan Man	new ISI	Engineen Date	1/6/02
Signed_	Ow	vner or Owner's Designee, Title		
Sigiled _	Ow	vner or Owner's Designee, Title		
	CERTI	IFICATE OF INSERV	ICE INSPECTION	
1, the unc	CERTI dersigned, holding a valid	IFICATE OF INSERV		Pressure Vess
I, the und Inspecto of <u>Ha</u> the period belief, th	CERTI dersigned, holding a valid rs and the State or Provin artford, Connecticut nd <u>3-24-02</u> to	IFICATE OF INSERV I commission issued by the company of the compan	e National Board of Boiler and imployed by HSB CT onents described in this Owner and state that to the best of my orrective measures described in	Pressure Vess 's Report durin knowledge an
I, the under Inspector Hat the period belief, the Report in By significant concerning their terms of the significant in the significant concerning the signi	dersigned, holding a validers and the State or Province the Connecticut of 3-24-02 to the Owner has performed en accordance with the required this certificate, neither sing the examinations and	IFICATE OF INSERV I commission issued by the nice of <u>Arizona</u> and endaye inspected the compexaminations and taken conjuirements of the ASME Contractive measures described in any	e National Board of Boiler and imployed by HSB CT onents described in this Owner and state that to the best of my borrective measures described in code, Section XI.	Pressure Vess 's Report durin knowledge an this Owner's ressed or impli
I, the under Inspector Hat the period belief, the Report in By significant concerning their terms of the significant in the significant concerning the signi	dersigned, holding a valid ars and the State or Province of Salar of to be Owner has performed en accordance with the requiring this certificate, neither and the Inspector nor his employed.	IFICATE OF INSERV I commission issued by the nee of Arizona and ender the comparation of the comparation of the ASME of the Inspector nor his employer shall be liable in anying from or connected with	e National Board of Boiler and imployed by HSB CT onents described in this Owner and state that to the best of my borrective measures described in code, Section XI.	Pressure Vess 's Report durin knowledge an this Owner's ressed or impli furthermore, or property
I, the under Inspector Hat the period belief, the Report in By significant concerning their terms of the significant in the significant concerning the signi	dersigned, holding a valid ars and the State or Province the connecticut of 3-24-02 to be Owner has performed en accordance with the required the examinations and the Inspector nor his employer a loss of any kind arising the examinations and the Inspector soft any kind arising the examinations and the Inspector soft any kind arising the examinations and the Inspector soft any kind arising the examinations and the Inspector soft any kind arising the examinations and the Inspector soft any kind arising the examinations and the Inspector's Signature than the examination of the ex	IFICATE OF INSERV I commission issued by the nee of Arizona and ender the comparation of the comparation of the ASME of the Inspector nor his employer shall be liable in anying from or connected with	e National Board of Boiler and imployed by HSB CT onents described in this Owner and state that to the best of my orrective measures described in code, Section XI. Soloyer makes any warranty, experibed in this Owner's Report. For manner for any personal injury in this inspection.	Pressure Vessor's Report during knowledge and this Owner's ressed or implifurthermore, or property

PV-E0092 Ver. 7 BACK 73DP-9ZZ17

	ASME SECTI	ON XI - REPAIR/F	REPLACEMENT	Page 1 of 14			
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 <u>2SG02-1A</u> 5. W.O. Number <u>2420372</u>							
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA							
7. Original Installation (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.							
10.	nowing on-inte pressure	testing.					
9. LI ISI Flaw	NDE M	lethod of Flaw Detection					
10 Evaluation of the au	sitability of this work as n		N 4150				
		er the requirements of IA\ ary. Spare valve is a like-		nd is being replaced			
based upon pressur							
11. Repair/Replacemen	it Work Organization _A	PS					
-		d Code/Edition ASME II	I CLASS 2, 1974 ED.,	, S'75 ADD.			
		ode/Edition ASME III C					
·	•	ION AND 1992 ADDEN					
15. Preservice Inspecti	on Required.		ES 🗹 NO)			
DMG 01/29/0	•	e a step in the W.O. to pe	_				
Initial Date	- .5	[7] v	F0				
16. ASME Section XI P DMG 01/29/0	•	Ye a step in the W.O. for IS					
DIVIS 01/29/6 DMG 01/29/6 DMG 01/29/6 DMG 01/29/6 DMG DM		o in the W.O. to complete		leasing the component.			
Initial Date		in the W.O. to record be		•			
DMG 01/29/0	replacement i		ow an apphoasic nam	sors for repaired or			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
2JSGEPSV0694	N/A	BS-08609	N/A	004.3233500			
· · · · · · · · · · · · · · · · · · ·							
		-					
Day Day 126 200 - DAYED COON ET							
19. Planner Signature Dale Print Name DAVID GOODLET							
20. ISI Engineer 1-31-C2 Print Name RAMAKANT INDAP							
21. ANII Print Name ROBERT HOGSTROM							
Signature Date							

ASME SECTION XI - REPAIR/REPLACEMENT Page 2 of 14						
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	4. N-5 Package Number <u>2SG02-1A</u> 5. W.O. Number <u>2420372</u>					
6. Original Construction	Code Edition ASME I	II CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA		
7. Original Installation (Code Edition ASME III	CLASS 2, 1974 EDITION	N, WINTER 1975 AD	DENDA		
		m safety valve, with recond	ditioned spare, per En	gineering direction		
<u>_fo</u>	llowing on-line pressure	testing.				
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection _				
		,				
		er the requirements of IAV	•	nd is boing rowlessed		
No failure in the A based upon pressur		ary. Spare valve is a like-	ior-like replacement a	nd is being replaced		
**** · · · · · · · · · · · · · · · · ·				-		
	t Work Organization A					
		d Code/Edition ASME III				
	-	ode/Edition ASME III CI		'75 ADD		
14. ASME Section XI C	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	DA			
15. Preservice Inspecti	•	_	ES 🗹 NO			
DMG 01/29/0	02 If required, includ	e a step in the W.O. to per	form Preservice Inspe	ection.		
16. ASME Section XI P	ressure Test Required	☑ YE	ES 🛄 NO			
DMG 01/29/0	•	e a step in the W.O. for ISI	& ANII Inspection.			
Initial Date DMG 01/29/0	<u>)2</u> 17. Include a step	o in the W.O. to complete t	NIS-2 Form prior to re	leasing the component.		
Initial Date DMG 01/29/0		o in the W.O. to record belo	ow all applicable numl	bers for repaired or		
Initial Date	replacement	tems.				
ITEM I.D. 2JSGEPSV0559	PART NO. N/A	SERIAL NO. BS-08613	HEAT NO. N/A	MR/ ROS NO:		
23002101030	17/12	25 00013				
De May Downlet 126 2002 COON ET						
19. Planner David / Worth 1-29-2002 Print Name DAVID GOODLET						
20. ISI Engineer Print Name RAMAKANT INDAP						
21. ANII 24	Signature J		Name ROBERT HOG			
21. ANII Print Name ROBERT HOGSTROM Signature Date						

ASME SECTION XI - REPAIR/REPLACEMENT Page 3 of 14					
1. Component ID 2JSG			ass <u>ASME III, CLASS</u>	5.2	
3. Item Description MA	IN STEAM SAFETY V	ALVE; DRESSER 3707	'RA-RT25; 1290 PSIC	j	
4. N-5 Package Number	r 2SG02-1A	5. W.O. Nur	mber <u>2420372</u>		
6. Original Construction	Code Edition ASME I	II CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	DDENDA	
7. Original Installation C	ode Edition ASME III	CLASS 2, 1974 EDITION	N, WINTER 1975 ADI	DENDA	
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.					
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection _			
		Report Number			
	SME III pressure bound	er the requirements of IAV ary. Spare valve is a like-		nd is being replaced	
11. Repair/Replacemen	t Work Organization _A	PS			
12. Replacement Item C	construction or reconcile	d Code/Edition ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.	
13. Repair/Replacement	t Activity Construction C	ode/Edition ASME III CI	LASS 2, 1974 ED., W'	75 ADD.	
14. ASME Section XI Co	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	DA		
15. Preservice Inspection DMG 01/29/0 Initial Date	•	Y e a step in the W.O. to pe	ES NO NO rform Preservice Inspe	ction.	
16. ASME Section XI Pr	essure Test Required	☑ YI	ES 🛄 NO		
DMG 01/29/0	·	e a step in the W.O. for IS	I & ANII Inspection.		
	2 17. Include a step	o in the W.O. to complete	NIS-2 Form prior to rele	easing the component.	
Initial Date	18. Include a ster	o in the W.O. to record belitems.	ow all applicable numb	ers for repaired or	
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/R OS NO.	
2JSGEPSV0560	N/A	BS-08575	N/A	ce 632394-cel	
	^ ^^				
19. Planner Dank	Signature	1-29-2002 Print N	Name DAVID GOODI	_ET	
20. ISI Engineer	RETUCCUP Signature	1-3(-C2 Print N	Name <u>RAMAKANT II</u>	NDAP	
21. ANII	Signature Signature		Name <u>ROBERT HOGS</u>	STROM	

ASME SECTION XI - REPAIR/REPLACEMENT Page 4 of 14					
1. Component ID 2JSC	GEPSV0561	2. Code Cla	ass <u>ASME III, CLAS</u>	•	
		ALVE; DRESSER 3707	7RA-RT25; 1250 PSIC	<u> </u>	
4. N-5 Package Numbe	er 2SG02-1A	5. W.O. Nu	mber <u>2420372</u>		
=		II CLASS 2, 1974 EDITI			
=		CLASS 2, 1974 EDITIO			
8. Work Description Ref	eplacement of main stear llowing on-line pressure	n safety valve, with recontesting.	iditioned spare, per En	gineering direction	
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection			
		Report Number			
	SME III pressure bound	er the requirements of IAV ary. Spare valve is a like-		nd is being replaced	
11. Repair/Replacemer	nt Work Organization A	PS			
12. Replacement Item (Construction or reconcile	d Code/Edition ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.	
13. Repair/Replacemen	it Activity Construction C	ode/Edition ASME III C	LASS 2, 1974 ED., W'	75 ADD.	
14. ASME Section XI C	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	DA		
15. Preservice Inspecti	on Required.	☐ Y	ES 🖸 NO		
DMG 01/29/0	02 If required, includ	e a step in the W.O. to pe	rform Preservice Inspe	ection.	
16. ASME Section XI P	ressure Test Required	☑ Y	ES 🛄 NO		
DMG 01/29/0	02 If required, include	e a step in the W.O. for IS	I & ANII Inspection.		
DMG 01/29/0)2 17. Include a step	in the W.O. to complete	NIS-2 Form prior to rel	easing the component.	
DMG 01/29/0	18. Include a ster	o in the W.O. to record be items.	low all applicable numb	pers for repaired or	
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/R OS NO .	
2JSGEPSV0561	N/A	BS-08569	N/A	00631950-001	
^ /	h nu				
19. Planner Dank	Signature.	1-29-2002 Print I	Name DAVID GOOD	LET	
20. ISI Engineer	Signature	1-3i-c2_ Print I	Name <u>RAMAKANT I</u>	NDAP	
21. ANII	Signature	Print I	Name <u>ROBERT HOG</u>	STROM	

	ASME SECTI	ON XI - REPAIR/R	EPLACEMENT	Page 5 of 14	
1. Component ID 2JS	GEPSV0555	2. Code Cla	ss ASME III, CLAS	S 2	
-		ALVE; DRESSER 3707	RA-RT25; 1290 PSI	3	
4. N-5 Package Numb	er <u>2SG02-1A</u>	5. W.O. Nun	nber <u>2420372</u>	· .	
6. Original Constructio	n Code Edition ASME I	II CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA	
7. Original Installation	Code Edition ASME III	CLASS 2, 1974 EDITION	N, WINTER 1975 AD	DENDA	
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction					
<u>IC</u>	ollowing on-line pressure	testing.			
9. 🔲 ISI Flaw	NDE N	lethod of Flaw Detection _		*	
40 Fuelveties et the					
		er the requirements of IAV ary. Spare valve is a like-		nd is being replaced	
based upon pressu		7. 25.00		<u> </u>	
11 Renair/Renlaceme	nt Work Organization A	PS			
•		d Code/Edition ASME III	I CLASS 2 1974 ED	S'75 ADD.	
		ode/Edition ASME III CI			
• •	•	TON AND 1992 ADDEN		13 NDD.	
		_	ES 🗹 NC		
15. Preservice Inspect DMG 01/29/	·	e a step in the W.O. to per	·		
Initial Date		·	_		
16. ASME Section XI F	•	YI 🗹			
DMG 01/29/	-	e a step in the W.O. for ISI			
DMG 01/29/	·	in the W.O. to complete I			
DMG 01/29/		o in the W.O. to record belitems.	ow all applicable numl	pers for repaired or	
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ ROS NO .	
2JSGEPSV0555	N/A	BT-01676	N/A	02632401-ttl	
	D Ma				
19. Planner Land	Signature 1-	-29-2822 Print N	lame DAVID GOOD	LET	
20. ISI Engineer	Phidae		lame <u>RAMAKANT I</u>	NDAP	
	Signature	Date	nonene iioo	CTDOM	
21. ANII	Signature Signature	Date Print N	lame ROBERT HOG	STKUM	

ASME SECTION XI - REPAIR/REPLACEMENT Page 6 of 14							
1. Component ID 2JSC	EPSV0554	2. Code Cla	ass ASME III, CLASS				
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG							
4. N-5 Package Numbe	r <u>2SG02-1A</u>	5. W.O. Nur	mber <u>2420372</u>				
-		III CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA			
•		I CLASS 2, 1974 EDITIO					
		m safety valve, with recon	ditioned spare, per En	gineering direction			
fol	following on-line pressure testing.						
9. 🔲 ISI Flaw	NDE N	Method of Flaw Detection _					
		•					
		per the requirements of IAV		nd to both and the state of the			
No failure in the Asbased upon pressur		lary. Spare valve is a like-	-Ior-like replacement a	nd is being replaced			
upon pressur							
11. Repair/Replacemen							
-		ed Code/Edition ASME II					
13. Repair/Replacemen	t Activity Construction C	Code/Edition ASME III C	LASS 2, 1974 ED., W	75 ADD.			
14. ASME Section XI Co	ode/Edition 1992 EDIT	ΓΙΟΝ AND 1992 ADDEN	DA	· .			
15. Preservice Inspection	•		ES 🗹 NO				
DMG 01/29/0	2 If required, includ	de a step in the W.O. to pe	rform Preservice Inspe	ection.			
16. ASME Section XI Pr	essure Test Required	☑ Y	ES 🔲 NO				
DMG 01/29/0	•	le a step in the W.O. for IS	I & ANII Inspection.				
Initial Date DMG 01/29/0	12 17. Include a ste	p in the W.O. to complete	NIS-2 Form prior to rel	easing the component.			
Initial Date DMG 01/29/0		p in the W.O. to record bel	low all applicable numb	pers for repaired or			
Initial Date	replacement PART NO.	items. SERIAL NO.	HEAT NO.	MR/ ROS N O.			
2JSGEPSV0554	N/A	BS-08572	N/A	02632405-00LI			
				_			
19. Planner Daube	in Smooth	1-29-2002 Print 1	Name DAVID GOOD	LET			
20. ISI Engineer	Signature SPINACP		Name <u>RAMAKANT I</u>	NDAP			
	Signature	Date					
21. ANII	Signature	েত্ৰ Print l Date	Name <u>ROBERT HOG</u>	STKUM			

	ASME SECTION	ON XI - REPAIR/R	EPLACEMENT	Page 7 of 14			
1. Component ID 2JS0	GEPSV0691	2. Code Clas	ss ASME III, CLAS	S 2			
· · · · · · · · · · · · · · · · · · ·		ALVE; DRESSER 3707I	RA-RT25; 1315 PSI	<u> </u>			
4. N-5 Package Number	4. N-5 Package Number <u>2SG01-1A</u> 5. W.O. Number <u>2420372</u>						
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	I, WINTER 1975 AD	DENDA			
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction							
10	llowing on-line pressure	testing.					
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection _					
	•	er the requirements of IAW ary. Spare valve is a like-f		nd is being replaced			
based upon pressu		ity. Spare varve is a rine 1	<u> </u>				
11 Panair/Panlacomer	nt Work Organization Al	PS					
· ·		d Code/Edition ASME III	CLASS 2 1974 FD	S'75 ADD			
		ode/Edition ASME III CL					
		ION AND 1992 ADDENI		13 1100.			
	****	□ YE		<u> </u>			
15. Preservice Inspect DMG 01/29/	·	e a step in the W.O. to per					
Initial Date		_	_				
16. ASME Section XI P	•	YE	_				
DMG 01/29/0		e a step in the W.O. for ISI	•				
DMG 01/29/0		in the W.O. to complete N		•			
DMG 01/29/0	02 18. Include a ster replacement i	in the W.O. to record belotems.	ow all applicable num	bers for repaired or			
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.			
2JSGEPSV0691	N/A	BS-08624	N/A	JO632385-001			
1							
	Day D NA						
19. Planner Down	Signature ,	1-29-2002 Print N	ame <u>DAVID GOOD</u>	LET			
20. ISI Engineer	Fonday	1-31-02 Print N	ame <u>RAMAKANT I</u>	NDAP			
	Signature	Date Drint N	ama DODEDT HOC	STP OM			
21. ANII	Signature	<u> න්තෙර</u> Print N Date	ame ROBERT HOG	IST KUM			

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.
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
Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction
 7. Original Installation Code Edition <u>ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA</u> 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing
tollowing on-line pressure lesing
Tollowing on the process treating.
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.
DMG 01/29/02 If required, include a step in the W.O. to perform Preservice Inspection.
16. ASME Section XI Pressure Test Required YES NO
DMG 01/29/02 If required, include a step in the W.O. for ISI & ANII Inspection.
DMG 01/29/02 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
DMG 01/29/02 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 \$\tilde{5}\tilde{3}3
19. Planner Signature Date Print Name DAVID GOODLET
20. ISI Engineer -3 - 2 Print Name RAMAKANT INDAP
■

ASME SECTION XI - REPAIR/REPLACEMENT Page 9 of 14					
1. Component ID 2JSC	GEPSV0578	2. Code Cla	ass ASME III, CLASS	3.2	
		ALVE; DRESSER 3707	RA-RT25; 1290 PSIC	3	
4. N-5 Package Numbe	r 2SG01-1A	5. W.O. Nur	mber <u>2420372</u>		
6. Original Construction	Code Edition ASME I	II CLASS 2, 1974 EDITION	ON, SUMMER 1975 A	ADDENDA	
7. Original Installation C	Code Edition ASME III	CLASS 2, 1974 EDITIO	N, WINTER 1975 ADI	DENDA	
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.					
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection		:	
	SME III pressure bound	er the requirements of IA\ ary. Spare valve is a like-		nd is being replaced	
11. Repair/Replacemen	t Work Organization A	PS			
12. Replacement Item C	Construction or reconcile	d Code/Edition ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.	
13. Repair/Replacemen	t Activity Construction C	ode/Edition ASME III C	LASS 2, 1974 ED., W'	75 ADD.	
14. ASME Section XI Co	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	DA		
15. Preservice Inspection	on Required.	Q Y	ES 🗹 NO		
DMG 01/29/0	2 If required, include	e a step in the W.O. to pe	rform Preservice Inspe	ection.	
16. ASME Section XI Pr	ressure Test Required	☑ Y	ES 🔲 NO		
DMG 01/29/0	2 If required, include	e a step in the W.O. for IS	I & ANII Inspection.		
DMG 01/29/0	2 17. Include a step	o in the W.O. to complete	NIS-2 Form prior to rel	easing the component.	
Initial	18. Include a step replacement i	o in the W.O. to record be	low all applicable numb	pers for repaired or	
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ ROS NO .	
2JSGEPSV0578	N/A	BS-08601	N/A	50631944-DEL1	
	-				
~ ^					
19. Planner	Signature .	Date	Name DAVID GOOD	LET	
20. ISI Engineer	Signature J	Date Print I	Name <u>RAMAKANT I</u>	NDAP	
21. ANII	Signature		Name ROBERT HOG	STROM	

	ASME SECTION XI - REPAIR/REPLACEMENT Page 10 of 14					
1. Component ID 2JSC		···	ss <u>ASME III, CLAS</u>			
3. Item Description MA	AIN STEAM SAFETY	VALVE; DRESSER 3707	RA-RT25; 1250 PSIC	G		
4. N-5 Package Numbe		···	nber <u>2420372</u>			
		III CLASS 2, 1974 EDITIO				
7. Original Installation C	ode Edition <u>ASME II</u>	I CLASS 2, 1974 EDITIO	N, WINTER 1975 AD	DENDA		
	8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.					
	AIDE A	Asthod of Flow Datastics				
9. 🔲 ISI Flaw	NDET	Method of Flaw Detection _				
10 Evaluation of the su	itability of this work as a	per the requirements of IAV				
No failure in the A based upon pressur	SME III pressure bound	dary. Spare valve is a like-	for-like replacement a	nd is being replaced		
11. Repair/Replacemen	t Work Organization A	\PS				
	-	ed Code/Edition ASME II		, S'75 ADD.		
		Code/Edition ASME III CI				
	•	FION AND 1992 ADDEN		<u> </u>		
		<u> </u>				
15. Preservice Inspecti DMG 01/29/0		۲ ليــا de a step in the W.O. to pe				
Initial Date		_				
16. ASME Section XI P		Y 🖸				
DMG 01/29/0		le a step in the W.O. for IS				
DMG 01/29/0		ep in the W.O. to complete				
DMG 01/29/0	18. Include a ste replacement	ep in the W.O. to record bel titems.	ow all applicable num	bers for repaired or		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO:		
2JSGEPSV0579	N/A	BS-08571	N/A	02632407-caj		
			i			
				· · · · · · · · · · · · · · · · · · ·		
19. Planner Dank	m Nouselly Signature	1-29-2001 Print N	Name <u>DAVID GOOD</u>	LET		
20. ISI Engineer	Findoup Signature	1-31-02 Print P	Name <u>RAMAKANT I</u>	NDAP		
21. ANII 🥏	(Signature	ि Print l	Name <u>ROBERT HOG</u>	STROM		

ASME SECTION XI - REPAIR/REPLACEMENT Page 11 of 14						
1. Component ID 2JSC	SEPSV0692	2. Code Cla	ss ASME III, CLASS	Ĭ		
3. Item Description MA	AIN STEAM SAFETY	VALVE; DRESSER 3707	RA-RT25; 1315 PSIC	3		
4. N-5 Package Numbe	r 2SG01-1A	5. W.O. Nur	nber <u>2420372</u>	:		
6. Original Construction	Code Edition ASME I	II CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA		
7. Original Installation C	Code Edition ASME III	CLASS 2, 1974 EDITION	N, WINTER 1975 AD	DENDA		
	placement of main stead llowing on-line pressure	m safety valve, with recon- testing.	ditioned spare, per Eng	gineering direction		
9. 🔲 ISI Flaw	NDE N	Method of Flaw Detection _				
		Report Number				
No failure in the A	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/Replacemen	t Work Organization A	PS				
12. Replacement Item 0	Construction or reconcile	ed Code/Edition_ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.		
		code/Edition ASME III CI				
•		TION AND 1992 ADDEN				
15. Preservice Inspecti	on Required.	□ Y	ES 🗹 NO)		
DMG 01/29/0	•	le a step in the W.O. to pe	rform Preservice Inspe	ection.		
16. ASME Section XI P	ressure Test Required	☑ Y	ES 🛄 NO			
DMG 01/29/0		e a step in the W.O. for IS	I & ANII Inspection.			
Initial Date DMG 01/29/0	17. Include a ste	p in the W.O. to complete	NIS-2 Form prior to rel	leasing the component.		
Initial Date DMG 01/29/0 Initial Date)2 18. Include a ste replacement	p in the W.O. to record bel	ow all applicable numl	bers for repaired or		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ ROS NO .		
2JSGEPSV0692	N/A	BS-08578	N/A	10632381-001		
19. Planner Jan M	Signature	7- 29-2004 Print N	Name <u>DAVID GOOD</u>	LET		
20. ISI Engineer	Signature J	Date Print N	Name <u>RAMAKANT I</u>	NDAP		
21. ANII	Signature Signature	Print N	Name ROBERT HOG	STROM		

ASME SECTION XI - REPAIR/REPLACEMENT	Page 12 of 14					
1. Component ID 2JSGEPSV0574 2. Code Class ASME III, CLASS 2	\sim					
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1396 PSIG	2-1-02					
4. N-5 Package Number <u>2SG01-1A</u> 5. W.O. Number <u>2420372</u>						
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 AD	DENDA					
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDE	NDA					
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 based upon pressure testing.	is being replaced					
11. Repair/Replacement Work Organization APS						
12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'7	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 01/29/02 If required, include a step in the W.O. to perform Preservice Inspection	on.					
16. ASME Section XI Pressure Test Required YES NO						
DMG 01/29/02 If required, include a step in the W.O. for ISI & ANII Inspection.						
DMG 01/29/02 17. Include a step in the W.O. to complete NIS-2 Form prior to release	sing the component.					
Date DMG 01/29/02 18. Include a step in the W.O. to record below all applicable numbers replacement items.	s for repaired or					
ITEM I.D. PART NO. SERIAL NO. HEAT NO.	MR/ROS NO.					
2JSGEPSV0574 N/A BS-08582 N/A	00632383-001					
19. Planner David Name DAVID GOODLET Signature Date						

	ASME SECTION	ON XI - REPAIR/R	REPLACEMENT	Page 13 of 14	
1. Component ID 2JSC	EPSV0573	2. Code Cla	ass ASME III, CLASS		
		ALVE; DRESSER 3707	'RA-RT25; 1290 PSIC	3	
4. N-5 Package Numbe	r <u>2SG01-1A</u>	5. W.O. Nur	mber 2420372		
6. Original Construction	Code Edition ASME II	II CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA	
7. Original Installation C	ode Edition ASME III	CLASS 2, 1974 EDITIO	N, WINTER 1975 ADI	DENDA	
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction					
fol	lowing on-line pressure	testing.			
9. 🔲 ISI Flaw	NDE M	ethod of Flaw Detection _			
10 Evaluation of the co-	itability of this work on a	Report Number er the requirements of IAV	W-4150		
		ary. Spare valve is a like-		nd is being replaced	
based upon pressur					
11. Repair/Replacemen	t Work Organization AI	PS			
		d Code/Edition ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.	
		ode/Edition ASME III CI			
14. ASME Section XI Co	ode/Edition 1992 EDIT	ION AND 1992 ADDEN	DA		
15. Preservice Inspection	on Required.	☐ Y	ES 🗹 NO		
DMG 01/29/0	•	e a step in the W.O. to pe	rform Preservice Inspe	ection.	
16. ASME Section XI Pr	essure Test Required	☑ Y	ES 🔲 NO		
DMG 01/29/0	•	e a step in the W.O. for IS	I & ANII Inspection.		
Initial Date DMG 01/29/0	17. Include a step	in the W.O. to complete	NIS-2 Form prior to rele	easing the component.	
Initial Date DMG 01/29/0		in the W.O. to record bel	ow all applicable numb	pers for repaired or	
Initial Date	replacement i	serial no.	HEAT NO.	MR/ ROS NO .	
2JSGEPSV0573	N/A	BS-08574	N/A	00631945-001	
	V VV.				
19. Planner Dan	Den Jonato	1-29-2002 Print N	Name <u>DAVID GOODI</u>	LET	
20. ISI Engineer	Phodap	1-31-62 Print N	Name <u>RAMAKANT II</u>	NDAP	
21. ANII	Signature)	Date □3√-92 Print N	Name ROBERT HOGS	STROM	
	Signature	Date			

ASME SECTION XI - REPAIR/REPLACEMENT Page 14 of 14				
1. Component ID 2JSC			ass ASME III, CLASS	5.2
3. Item Description MA	AIN STEAM SAFETY	VALVE; DRESSER 3707	'RA-RT25; 1250 PSIC	3
4. N-5 Package Numbe	er 2SG01-1A	5. W.O. Nur	mber. <u>2420372</u>	
6. Original Construction	Code Edition ASME	III CLASS 2, 1974 EDITIO	ON, SUMMER 1975 A	ADDENDA
7. Original Installation (Code Edition <u>ASME III</u>	CLASS 2, 1974 EDITIO	N, WINTER 1975 AD	DENDA
	eplacement of main stea llowing on-line pressure	m safety valve, with recon testing.	ditioned spare, per Eng	gineering direction
9. 🔲 ISI Flaw	NDE N	Method of Flaw Detection		
			A/ 4450	
	SME III pressure bound	per the requirements of IA\ lary. Spare valve is a like-		nd is being replaced
11. Repair/Replacemen				
12. Replacement Item (Construction or reconcile	ed Code/Edition ASME II	I CLASS 2, 1974 ED.,	S'75 ADD.
13. Repair/Replacemen	t Activity Construction C	Code/Edition ASME III C	LASS 2, 1974 ED., W'	75 ADD.
14. ASME Section XI C	ode/Edition 1992 EDIT	TION AND 1992 ADDEN	DA	
15. Preservice Inspecti	on Required.	☐ Y	ES 🔟 NO	
DMG 01/29/0	02 If required, includ	de a step in the W.O. to pe	rform Preservice Inspe	ection.
16. ASME Section XI P	·		ES 🔲 NO	
DMG 01/29/0	-	e a step in the W.O. for IS		
DMG 01/29/0	17. Include a ste	p in the W.O. to complete	NIS-2 Form prior to rel	easing the component.
DMG 01/29/0	18. Include a ste replacement	p in the W.O. to record be items.		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/R OS NO .
2JSGEPSV0572	N/A	BY-14539	N/A	00632404-201
19. Planner Dank	in Smally		Name <u>DAVID GOOD</u>	LET
20. ISI Engineer	Signature Signature	Date	Name <u>RAMAKANT I</u>	NDAP
21. ANII	Signature		Name <u>ROBERT HOG</u>	STROM

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 01/29/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 3 2. Plant Palo Verde Nuclear Generating Station Unit ______ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2420372 Work Order Number None 3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp Authorization No. _____N/A 5801 S. Wintersburg Rd., tONOPAH, Az. 85354-7529 Expiration Date N/A SG - Main Steam 4. Identification of System 5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired ASME Code National Other Year Manufacturer Name of Name of Stamped Board No. Identification Built Replacement (Yes or No) or Manufacturer Serial No. Item Yes 2JSGEPSV572 1991 Replacement N/A Safety Valve Dresser BY-14539 Yes 2JSGEPSV573 1978 Replacement N/A Safety Valve Dresser BS-08574 Yes 2JSGEPSV574 1978 Replacement N/A Safety Valve Dresser BS-08582 2JSGEPSV692 1978 Yes BS-08578 N/A Replacement Safety Valve Dresser 2JSGEPSV579 1978 Replacement Yes BS-08571 N/ASafety Valve Dresser

7. Description of Wo	rk Replace main	steam safety va	alves with recondi	tioned spares	S	
8. Test Conducted:	Hydrostatic	Pneumatic	Nominal Operating	Pressure 🗹	Exempt	N-416-1 🔲
•	Other [Pressure	psi	Test T	emp	°F

N/A

N/A

BS-08601

BS-08627

Dresser

Dresser

2JSGEPSV578 1980

2JSGEPSV576 1981

Replacement

Replacement

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.

Yes

Yes

Safety Valve

Safety Valve

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona</u>]	Public Service Con	npany, et. al.			Date		01/29/02	
P.O. Box	53999, Phoenix, A	20	-2034		Sheet	2	of	3
2. Plant Palo Ver	de Nuclear Genera	ting Station			Unit		2	
5801 S. V	Wintersburg Rd., T	_{ame} 'onopah, Arizo	ona 85354-	7529			2420372 Work Order Number	
	А	ddress				,	Work Order Number	
3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None							None	
Authorization No. N/A							<u>A</u>	
5801 S. Wintersburg Rd., tONOPAH, Az. 85354-7529 Expiration Date N/A							<u> </u>	
4 Identification of Su	CC M-i-							
4. Identification of Sys	stem <u>33 man</u>							
5. (a) Applicable Cor	nstruction Code ASM	IE III Class 2	19 <u>74</u> [Edition,	, <u>S'75</u>	Adde	nda, <u>1711</u>	Code Case
(b) Applicable Edi	tion of Section XI Utiliz	ed for Repairs or	Replacemer	nts 19	92 Editi	ion, <u>1</u>	992 Adden	da
				_				
6. Identification of Co	mponents Repaired o	r Replaced and R	eplacement (Compo	nents			·
Name of	Name of	Manufacturer	National	С	ther	Year	Repaired or	ASME Code Stamped
Item	Manufacturer	Serial No.	Board No.	Ident	ification	Built	or Replacement	(Yes or No)
Safety Valve	Dresser	BS-08624	N/A	2JSG1	EPSV691	1981	Replacement	Yes
Safety Valve	Dresser	BS-08572	N/A	2JSGI	EPSV554	1978	Replacement	Yes
Safety Valve	Dresser	BT-01676	N/A	2JSG1	EPSV555	1979	Replacement	Yes
Safety Valve	Dresser	BS-08569	N/A	2JSGI	EPSV561	1978	Replacement	Yes
Safety Valve	Dresser	BS-08575	N/A	2JSG1	EPSV560	1978	Replacement	Yes
Safety Valve	Dresser	BS-08613	N/A	2JSG1	EPSV559	1980	Replacement	Yes
Safety Valve	Dresser	BS-08609	N/A	2JSG	EPSV694	1980	Replacement	Yes
	. D .	C . 4			المسائدة			
7. Description of Wor	k Replace main st	eam safety va	ives with re	econa	moned s	pares	•	
8. Test Conducted:	Hydrostatic 🔲 F	Pneumatic 🔲	Nominal Op	erating	Pressure	Ø	Exempt	N-416-1 🔲
	Other _	Pressure	psi			Test T	emp	_°F
	ntal sheets in form o							
	tems 1 through 6 on ets is recorded at th			ach sh	neet, and	(3) ea	ich sheet is nur	nbered and

		F	ORM NIS-2	(Back)	
9.	Remarks	Work Order #2420372 for 574, 692, 579, 578, 576, 6 maintenance engineering	591, 554, 555, 561, 560	e main steam safety valves 2JSG 0, 559 & 694. These 14 valves we pressure testing.	EPSV0572, 573, ere selected by
		CF	ERTIFICATE OF C	OMPLIANCE	
	l .			ect and this replacement conformation of replacement conformation of replacement replacement conformation of the replacement c	orms to the rules
	Type Co	de Symbol Stamp	N/A		
	Certifica	te of Authorization No	N/A	Expiration Date	N/A
	Signed_	alan mon	er or Owner's Designee, Title	Engineer 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 1-3-0-2 to 4-15-0-2, 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 NS 9685 "ANIC" Az 264 Inspector's Signature National Board, State, Province, and Endorsements
Date

	ASME SECTION	ON XI - REPAIR/R	REPLACEMENT			
1. Component ID 2JRC			ASME III, CLASS	<u>l</u>		
3. Item Description PRI		VALVE; DRESSER 3170				
4. N-5 Package Numbe		5. W.O. Nur				
		II CLASS 1, 1974 EDITIO				
Ţ.	7. Original Installation Code Edition ASME III CLASS 1, 1974 EDITION, WINTER 1975 ADDENDA					
8. Work Description RE	PLACE VALVE PER V	W.O.2420482				
9. I ISI Flaw	NDE M	ethod of Flaw Detection				
<u> </u>		Report Number				
10. Evaluation of the su	itability of this work as pe	er the requirements of IAV	W-4150.			
THE VALVE BEIN	NG ROTATED TO FAC	CILITATE VENDOR TES	STING. THE REPLACE	EMENT VALVE IS		
PART OF ROUTE	NE MAINTENANCE SI	N#D300014.				
11. Repair/Replacemen	t Work Organization Al	RIZONA PUBLIC SERV	ICE			
		d Code/Edition ASME II		5'75 ADD.		
		ode/Edition ASME III C				
		ION AND 1992 ADDEN				
15. Preservice Inspecti		□ Y				
MBN 01/30/0		e a step in the W.O. to pe		tion.		
Initial Date		_				
16. ASME Section XI Pt	•	Y a step in the W.O. for IS				
MBN 01/30/0		e a step in the w.o. for is		asing the component		
MBN 01/30/0						
MBN 01/30/0	18. Include a step replacement i	in the W.O. to record be items.	iow ali applicable numbe	ers for repaired or		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.		
2JRCEPSV0200	N/A	BS-08614	N/A			
19. Planner Web.	Signature Signature	2-1-57 Print I	Name <u>MICHAEL B. NE</u>	EWELL		
20. ISI Engineer	FINCLOUP Signature	2-1-02 Print I	Name <u>RAMAKANT IN</u>	DAP		
21. ANII 25	In turn (Signature	2-1-02 Print l	Name <u>ROBERT HOGS</u>	TROM		

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

As Required by the Provisions of the ASME Code Section XI

1. Owner <u>Arizona F</u>	. Owner Arizona Public Service Company, et. al.				Date		02/01/	02	_
P.O. Box	53999, Phoenix, A	^{ame} <u>Arizona 85072</u> ^{Idress}	-2034		Sheet	1	of .	2	_
2. Plant Palo Verd	le Nuclear Genera	ting Station			Unit		2		_
	Vintersburg Rd., T							182 nber	
3. Work Performed by ARIZONA PUBLIC SERVICE									
							o		_
5801 S. V	5801 S. WINTERSBURG RD TONOPAH AZ 85354 Expiration Date N/A								
4. Identification of Sys	stem RC ASME	E SECTION II	I CLASS 1						
5. (a) Applicable Con	•	III CI ASS 1	19 74	Edition	75'9	Adde	nda.	Code Case	e !
· ·									-
(b) Applicable Edit	ion of Section XI Utiliz	ed for Repairs or	· Replacemer	nts 19	9 <u>92</u> Editi	ion, <u>l</u>	1992A	adenda	
6. Identification of Co	mponents Repaired or	r Replaced and R	eplacement (Compo	onents				
Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Iden	Other tification	Year Built	Repaire or Replacem	ed ASME C Stampe nent (Yes or l	1
PSV-VALVE	DRESSER	BS08614	N/A	1		i	Replacem	h h	
		-							
7. Description of Wor	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					_			
o. rest conducted.	,	Pneumatic					_		_
	Other	Pressure 2	460 psi 3/02			Test T	emp. 6	53 °F 8/0℃	
(2) information in it	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.								

	W.O. 2420482 V./ (SN#BS08614)	ALVE BEING REPLAC	E AS PART OF ROUTINE MAIN	ITENANCE
		CERTIFICATE	OF COMPLIANCE	
of the A	SME Code, Section	XI.	re correct and this replacement repair or replacement	conforms to the rule
Certifica	ode Symbol Stamp_ ite of Authorization	No. <u>N/A</u>	Expiration Date	e NA
Signea	OI D.	Owner or Owner's Designee	TENGINEER Date O, Tille 151 ENG	4-15 00
	density of helds		ed by the National Board of Boiler	
		Province of Affizona	_ and employed by 11311	1 60 1 00.
Inspector of <u>Ha</u> the perion belief, th	ors and the State or artford, Connectic od ne Owner has perfo	ut, have inspected th to <u>५-५५-०२</u> rmed examinations and	e components described in this Over 1995, and state that to the best of taken corrective measures described SME Code, Section XI.	vner's Report during f my knowledge and
Inspector of Harmonic	ors and the State or artford, Connectic od	to 4-15-02 rmed examinations and the requirements of the Anti-ther the Inspector nor as and corrective measures employer shall be liable	e components described in this Ov , and state that to the best o taken corrective measures describ	wner's Report during f my knowledge and ed in this Owner's expressed or implie ert. Furthermore,
Inspector of Harmonic	ors and the State or artford, Connectic od	to 4-15-02 rmed examinations and the requirements of the Anti-ther the Inspector nor as and corrective measures employer shall be liable	ne components described in this Over and state that to the best of taken corrective measures described ASME Code, Section XI. This employer makes any warranty, res described in this Owner's Reported in any manner for any personal in cited with this inspection.	vner's Report during f my knowledge and ed in this Owner's expressed or implied ort. Furthermore, njury or property

	ASME SECTION	ON XI - REPAIR/F	SEPLACEWEN I	
1. Component ID 2JRC	CEPSV0201	2. Code Cla	ass ASME III, CLASS	1
		VALVE; DRESSER 317		
4. N-5 Package Number			mber <u>2420483</u>	
•		II CLASS 1, 1974 EDITI	ON, SUMMER 1975 A	DDENDA
		CLASS 1, 1974 EDITIO		
8. Work Description RE				
9. 🔲 ISI Flaw	NDE M	lethod of Flaw Detection		
0. 🚾 10. 7 14		Report Number		
10. Evaluation of the sui	itability of this work as p	er the requirements of IA\		
THE VALVE BEIN	NG ROTATED TO FAC	CILITATE VENDOR TE	STING. THE REPLAC	EMENT VALVE IS
PART OF ROUTIN	NE MAINTENANCE S	N#BS08565.		·
11. Repair/Replacement	t Work Organization A	RIZONA PUBLIC SERV	'ICE	
		d Code/Edition ASME II		S'75 ADD
		ode/Edition ASME III C		
•		ION AND 1992 ADDEN		
			_	
15. Preservice Inspection		e a step in the W.O. to pe	ES NO	ction
MBN 01/30/0	it required, includ	e a step in the w.o. to pe	sitotti i reservice mapo	ouori.
16. ASME Section XI Pr	essure Test Required	☑ Y	ES 🔲 NO	
MBN 01/30/0	2 If required, include	e a step in the W.O. for IS	61 & ANII Inspection.	
Initial Date MBN 01/30/0	2 17. Include a ster	o in the W.O. to complete	NIS-2 Form prior to rele	easing the component.
	18. Include a step	o in the W.O. to record be	low all applicable numb	ers for repaired or
Initial Date	replacement			14D/D00 NO
ITEM I.D.	PART NO.	SERIAL NO. BS-08614	HEAT NO. N/A	MR/ROS NO.
2JRCEPSV0201	N/A		08565	
		m/ 4/12/	d 2-	
		1,,0		
19. Planner W.	Signature	Date Print	Name <u>MICHAEL B. N</u>	EWELL
20. ISI Engineer	Finda P	2-1-02 Print	Name RAMAKANT II	NDAP
21. ANII 24	Signature		Name ROBERT HOGS	STROM
L	7)			73DP-9ZZ17

PV-E0093 Ver. 6

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 02/01/02 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 2 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O. 2420483 None Type Code Symbol Stamp 3. Work Performed by Arizona Public Service Authorization No. _____N/A 5801 S. Wintersburg Rd Tonapah AZ 85354 Expiration Date N/A RC ASME Section III Class 1 4. Identification of System 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 ASME Code Repaired Manufacturer National Other Year Name of Name of Stamped or Board No. Identification Built Replacement (Yes or No) Serial No. Manufacturer Item 2JRCEPSV201 1978 Replacement Yes BS-08665 N/A PSV-Valve Dresser BS-08565 13/ 4/12/02 7. Description of Work 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Learning Exempt N-416-1 Test Temp. 653 °F Pressure 2460 psi Other []

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

		FORM NIS-2 (Back)	
9.	Remarks	w.O. 2420483 VALVE BEING REPLACE AS PART OF ROUTINE N (SN#BS08565) ドソ リルロー おきのももら おらしまる	MAINTENANCE
		CERTIFICATE OF COMPLIANCE	
		rtify that the statements made in the report are correct and this replacements and this replacements are correct and this replacements.	
	1	Code Symbol Stamp N/A	
		Cate of Authorization No. N/A Expiration Description Expiration Expiration Expiration ALBROWNING RLBROWNING RRBROWNING RRBROWNING	Date <u>4//3/02</u> +//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 <u>Arizona</u> and employed by <u>HSBI & I CO.</u> of <u>Hartford, Connecticut</u> , have inspected the components described in this Owner's Report during the period <u>2-1-0.2</u> to <u>A-15-0.2</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions NS 9685 "ANIC" Az 264 Inspector's Signature National Board, State, Province, and Endorsements
Date 4-15-02