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10 CFR 50.55a

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January 23, 2002

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
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Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1,2 and 3 Docket Nos. STN 50-528, 50-529, and 50-530
Unit 3 Second 10-Year Interval – Ninth Refueling Outage Inservice
Inspection Summary**

Pursuant to 10 CFR 50.55a and IWA-6240 of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, 1992 Edition, 1992 Addenda, Arizona Public Service Company (APS) hereby submits the PVNGS Unit 3 Inservice Inspection Report for the ninth refueling outage, provided in enclosure 1. This is the second refueling for Interval 2, Period 1, which was conducted from September 28, 2001 through November 05, 2001.

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

Sincerely,

SAB/TNW/RJR/kg

Enclosures

cc: E. W. Merschoff
L. R. Wharton
J. H. Moorman

A047

ENCLOSURE 1

SECOND 10-YEAR ISI INTERVAL

SUMMARY REPORT

NINTH REFUELING OUTAGE

PALO VERDE NUCLEAR GENERATING STATION

UNIT 3

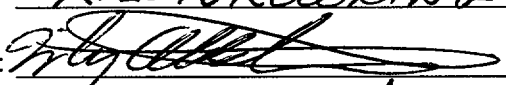
PALO VERDE NUCLEAR GENERATING STATION

UNIT 3

INSERVICE INSPECTION REPORT

NINTH REFUELING OUTAGE

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

PREPARED BY: R.L. BROWNING DATE: 12/11/01
REVIEWED BY:  DATE: 12-21-01
APPROVED BY: Michael Melton DATE: 1/02/02

COMMERCIAL SERVICE DATE: 01/28/86
REPORT DATE: 12/11/01

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
1.0 INTRODUCTION.....	3
2.0 EXAMINATION SUMMARY.....	3
3.0 EXAMINATION TECHNIQUES	4
4.0 ACCESSIBILITY	4
5.0 PERSONNEL.....	4
6.0 EQUIPMENT AND MATERIALS	4
7.0 REPAIRS AND REPLACEMENTS	4

APPENDICES

<u>APPENDIX</u>	<u>PAGE</u>
APPENDIX A - Inservice Inspection Summary Report.....	5
APPENDIX B - Inservice Inspection Code Limitations.....	25
APPENDIX C- IWL Inservice Inspection Summary Report.....	27
APPENDIX D- Form NIS-1	29
APPENDIX E- Forms NIS-2	32

UNIT 3 INSERVICE INSPECTION REPORT

1.0 Introduction

- 1.1 This report is a summary of the ISI examinations performed during the ninth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 3. This report also includes all applicable examinations conducted since the last refueling outage. This was the second refueling for Interval 2, Period 1 which was conducted from September 28, 2001 through November 05, 2001. Palo Verde Unit 3 began commercial operation on January 28, 1986.
- 1.2 This report identifies the components examined, the examination methods used, the examination report numbers, and summarizes the examination results for each of the following categories:
 1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.
 2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.
- 1.3 This report is a summary of the Period 1, 2nd Interval ISI exams performed during the ninth refueling outage. All of the examination report numbers listed in Appendix A for the ninth refueling and examinations performed since the last Summary Report are numbered in bold print.
- 1.4 This report also contains ASME Section XI Subsection IWL conditions as required by 10CFR50.55a(b)(2)(viii)(D).

2.0 Examination Summary

- 2.1 The evaluation of the results from the ISI examinations indicated the integrity of the systems have been maintained. All discrepancies were corrected or determined "use-as-is" in accordance with PVNGS work control practices and ASME Section XI. Any abnormal conditions detected are listed in Section 7 (Repairs and Replacements).
- 2.2 Various non-rejectable indications were detected during the performance of examinations. These indications were recorded and are maintained on file. No rejectable conditions were detected.
- 2.3 Leakage was detected at a RCS hot leg nozzle. The nozzle was repaired using a Mechanical Nozzle Seal Assembly (MNSA) pursuant to ISI program relief request number 18.
- 2.4 Several through wall tendon grease (visconorust sheathing filler) leaks were identified during the baseline IWL inservice inspection of the concrete containment structure in Unit 3. The conditions of containment degradation were documented and evaluated as acceptable.

3.0 Examination Techniques

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

VT - Visual	VT-1	General Condition
	VT-2	Leakage
	VT-3	Structural Condition/
	VT-3C	Operability
S - Surface	PT	Liquid Penetrant
	MT	Magnetic Particle
VOL - Volumetric	UT	Ultrasonic
	RT	Radiographic

- 3.2 All of the nondestructive examinations were performed using specific techniques and procedures that are indicated in ASME Section XI, or alternative examinations that are demonstrated to be equivalent or superior to those identified.

4.0 Accessibility

- 4.1 All items were examined to the extent practical. Any code limitations encountered during the examination are documented in Appendix B.

5.0 Personnel

- 5.1 All nondestructive examinations were performed by Arizona Public Service Co. (APS), Lambert, MacGill, Thomas, Inc. (LMT), 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. The Hartford Steam Boiler Inspection and Insurance Company provided the Authorized Nuclear Inservice Inspector (ANII).

6.0 Equipment and Materials

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

7.0 Repairs and Replacements

- 7.1 No repairs or replacements were performed as a result of ISI examinations during U3R9. 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 E and are submitted for review with this report.

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

APPENDIX A

Definition of Terms

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

ASME Item No -	The ASME Section XI Category/Item Numbers are listed in the Code, Subsections IWB, IWC, IWE and IWL. The item number prefixes are defined below: AHE - Augmented high energy systems piping B - ASME Class 1 systems BFLYWH - Reactor coolant pump flywheels BIWF - ASME Class 1 supports C - ASME Class 2 systems CIWF - ASME Class 2 supports E - Containment Surfaces/Bolting L- Contianment Exterior Concrete Surfaces
Zone No -	Area designation per PVNGS design
Comp/Sys -	Component or system description
Insp Per -	Inspection period
Amt Reqd -	Number of items required to be completed in the period
Amt Comp -	Number of required items completed
Item ID -	Item identification per ISI program/zone drawings
Reports (VOL) -	Volumetric exam report number
(SURF) -	Surface exam report number
(VIS) -	Visual exam report number
Remarks -	Re-exam or replacement remarks indicate acceptable examination results

Definition of terms continued

Acc -	Accessible
ADV -	Atmospheric Dump Valve
Aux -	Auxiliary
Atmos -	Atmospheric
CEDM -	Control Element Drive Mechanism
Circ -	Circumferential
Cont -	Containment
CS -	Containment Spray
CSP -	Containment Spray Pump
FW -	Feedwater
HPSI -	High Pressure Safety Injection
HTRS -	Heaters
ICI -	In Core Instrumentation
IEB -	Inspection and Enforcement Bulletin
Letdown HT Exch -	Letdown Heat Exchanger
LPSI -	Low Pressure Safety Injection
MS -	Main Steam
MT -	Magnetic Particle Test
Press Bound -	Pressure Boundary
PSE -	Preservice Examination
PSV -	Pressurizer Safety Valve
PZR -	Pressurizer
RCP -	Reactor Coolant Pump
RCS -	Reactor Coolant System
Regen HTEXCH-	Regenerative Heat Exchanger
SD -	Shutdown
SG -	Steam Generator
SI -	Safety Injection
Snub -	Snubber Reduction Program
Surf -	Surface
UT -	Ultrasonic Testing
Vis -	Visual
Vol -	Volumetric

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
AHE5.51 & 5.52	47 MS SG1	One	13	13	47-1	00-3443	00-3388		
					47-2	00-3437	00-3388		
					47-4	00-3454	00-3389		
					47-8	00-3453	00-3389		
					47-12	00-3452	00-3389		
					47-16	00-3451	00-3389		
					47-20	00-3450	00-3389		
					47-24	00-3445	00-3388		
					47-25	00-3446	00-3388		
					47-28	00-3428	00-3387		
					47-29	00-3427	00-3387		
					47-30	00-3447	00-3388		
	51 Atmos Dump SG1	One	13	13	51-1	00-3425	00-3205		
					51-2	00-3433	00-3205		
					51-3	00-3432	00-3205		
					51-4	00-3435	00-3205		
					51-5	00-3431	00-3205		
					51-6	00-3430	00-3205		
					51-7	00-3429	00-3205		
					51-8A	00-3424	00-3386		
					51-8B	00-3403	00-3205		
					51-9	00-3404	00-3205		
					51-51	00-3405	00-3205		
					51-53	00-3426	00-3205		
					51-54	00-3434	00-3205		
	53 Steam to Aux FW	One	10	10	53-11	00-3134	00-3110		
					53-12	00-3138	00-3110		
					53-13	00-3137	00-3110		PSE
					53-14	00-3132	00-3110		
					53-15	00-3130	00-3110		
					53-21	00-3131	00-3110		
					53-22	00-3133	00-3110		
					53-23	00-3129	00-3110		
					53-24	00-3136	00-3110		PSE
					53-25	00-3135	00-3110		
	56 Feedwater SG 1	One	6	6	56-1	01-3411	01-3337		
					56-4	01-3412	01-3337		
					56-6	01-3413	01-3337		
					56-7	01-3414	01-3337		
					56-9	01-3415	01-3337		
	60 Downcomer SG1	One	9	9	56-11	01-3416	01-3337		
					60-7	00-3284	00-3267		
					60-8	00-3285	00-3266		
					60-9	00-3286	00-3268		
					60-11	00-3287	00-3267		
					60-12	00-3288	00-3267		
					60-14	00-3289	00-3267		
	66 Blowdown SG1	One	9	9	60-15	00-3290	00-3267		
					60-16	00-3291	00-3267		
					60-17	00-3292	00-3267		
					66-1	00-3146	00-3093		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					66-2	00-3145	00-3093		
					66-3	00-3144	00-3093		
					66-5	00-3143	00-3093		
					66-6	00-3142	00-3093		
					66-7	00-3140	00-3093		
					66-8	00-3139	00-3093		
					66-9	00-3141	00-3093		
					66-25	00-3275	00-3206		
AHE 5.81 & 5.82	47 MS SG1	One	7	7	47-3	00-3442	00-3388		
					47-7	00-3441	00-3388		
					47-11	00-3440	00-3388		
					47-15	00-3439	00-3388		
					47-19	00-3436	00-3388		
					47-23	00-3444	00-3388		
					47-27	00-3438	00-3388		
B 1.22	02 Closure Head	One	33%	16%	2-4	00-3417 00-3419 00-3421 00-3423	00-3082		Accessible Areas, RR#14
B 1.30	01 Reactor Vessel	One	50%	50%	1-14	*			Examined 0-180
B 1.40	02 Closure Head	One	33%	33%	2-1	00-3416 00-3418 00-3420 00-3422	00-3082		Examined 0-120
B 2.11 &	5 Pressurizer	One	66%	66%	5-2	00-3085 00-3087 00-3089 00-3091			Examined 0-240
B2.12					5-3	00-3086 00-3088 00-3090 00-3092			1' long seam for 5-2
B2.31 & B2.32	3 Steam Generator 1	One	33%	33%	3-5 3-3 3-10	01-3078 01-3077 01-3081			Credited 0 - 120
B2.40			50%	50%	3-6	01-3079			Examined 0 -180
B 3.90	1 Reactor Vessel	One	2	2	1-15 1-18	* *			*Separate Report by Wesdyne. Exam
B 3.100	1 Reactor Vessel	One	2	2	1-15 1-18	* *			Completed in 3R7

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B3.110	5 Pressurizer	One	2	2	5-9 5-11	01-3193 01-3273			
B3.120		One	2	2	5-9 5-11	01-3192 01-3274			
B3.130	3 Steam Generator 1	One	1	1	3-8	01-3080			
	4 Steam Generator 2	One	1	1	4-9	01-3394			
B 3.140	3 Steam Generator 1	One	1	1	3-8	01-3388			
	4 Steam Generator 2	One	1	1	4-9	01-3387			
B 4.12	2 CEDM	One	8	8	1-97			00-3543	
B 4.13	1 RPV ICI	One	5	5	1-61			00-3543	
B 4.20	5 Pressurizer	One	12	12	1-36			00-3543	
B 5.40	20 PZR Surge & 31 PZR Safety	One	2	2	5-34 5-29	01-3194 01-3275	01-3083 01-3272		
B 6.10	2 Nuts	One	18	18	1 thru 18		00-3200	00-3207	
B 6.30	2 Studs	One	18	18	1 thru 18	01-3338	00-3200		
B 6.50	2 Washers	One	18	18	1 thru 18			00-3207	
B 6.180	16 RCP 1A	One	5	5	1 thru 5	01-3453		00-3209	
	17 RCP 1B	One	5	5	1 thru 5	01-3006 01-3454	01-3004	00-3210 01-3003 01-3236	
	18 RCP 2A	One	5	5	1 thru 5	01-3455		00-3211	
	19 RCP 2B	One	5	5	1 thru 5	01-3456		00-3212	
B 6.190	17 RCP 1B	One	1	1	Flange			01-3003 01-3235	
B 6.200	16 RCP 1A	One	5	5	1 thru 5			00-3209	
	17 RCP 1B	One	5	5	1 thru 5			00-3210 01-3003 01-3236	
	18 RCP 2A	One	5	5	1 thru 5			00-3211	
	19 RCP 2B	One	5	5	1 thru 5			00-3212	
B 7.20	05 Pressurizer	One	20	20	20 studs/nuts			00-3187 01-3314 01-3005	
B 7.30	03 SG1	One	40	40	40 studs/nuts			00-3188 01-3315	
	04 SG2	One	40	40	40 studs/nuts			00-3189	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
								01-3316	
B 7.50	31 PZR Safeties	One	1	1	PSV200			00-3186	
					PSV201			01-3313	
					PSV202			00-3186	
					PSV203			01-3313	
	37 Charging	One	1	1	V435			00-3186	
								01-3313	
								00-3186	
								01-3313	
								00-3186	
								01-3313	
								00-3254	
B 7.60	16 RCP 1A	One	5	5	1 thru 5			00-3209	
	17 RCP 1B	One	5	5	1 thru 5			00-3113	
								00-3210	
								00-3113	
								01-3002	PSE (16 studs)
								01-3007	
	18 RCP 2A	One	5	5	1 thru 5			00-3211	
	19 RCP 2B	One	5	5	1 thru 5			00-3113	
								00-3212	
								00-3113	
B 7.70	21 SD Cooling	One	1	1	UV653			00-3006	
	22 SD Cooling	One	1	1	UV654			01-3457	
	23 SI 1A	One	1	1	V237			01-3017	
	24 SI 1B	One	1	1	V543			00-3066	
	25 SI 2A	One	1	1	V540			00-3080	
	26 SI 2B	One	1	1	V225			00-3185	
	28 PZR Spray	One	2	2	V241			00-3028	
					V242			00-3028	
	31 PZR Safeties	One	1	1	PSV200			00-3035	
	32 Drain Loop 1A	One	2	2	V234			00-3038	
					V334			00-3038	
								01-3512	
	37 Charging	One	1	1	PDV240			00-3208	
	38 Drain Line	One	1	1	V215			01-3048	
	39 HPSI	One	1	1	V-523			00-3259	
B 7.80	02 Head	One	1	1	2-21			00-3270	CEDM 92
					2-21			00-3270	CEDM 96
B 8.20	05 Pressurizer	One	67%	67%	5-1	00-3278	00-3069		Examined 0-240
						00-3279			Code Limited
						00-3280			Relief Required
						00-3281			
B 8.30	03 SG 1	One	33%	33%	3-1	01-3325	01-3317		Examined 0 -120
B 9.11 & 9.12	06 RCS Piping	One	7	7	1-27	*	01-3506		*Separate report by
					1-30	*	01-3506		Wesdyne. Exams
					6-7	*	01-3506		completed in U3R7

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					7-7	*	01-3506		
					3-29	01-3409	01-3401		
					4-30	01-3410	01-3401		
					17-2	01-3407	01-3345		
	20 PZR Surge	One	1	1	20-1	01-3195	01-3083		
	21 SD Cooling	One	3	3	6-11	01-3076	01-3196		
						01-3075			
					21-18	01-3073	01-3196		
					21-20	01-3074	01-3196		
	22 SD Cooling	One	2	2	22-11	00-3148	00-3108		
					22-23	00-3149	00-3172		
	23 SI 1A	One	4	4	9-10	01-3049	01-3026		
						01-3050			
					23-1	01-3051	01-3026		
					23-2	01-3052	01-3026		
					23-4	01-3055	01-3026		
						01-3053			
					23-6	01-3056	01-3026		Augmented
						01-3054			
	25 SI 2A	One	2	2	25-26	00-3083	00-3033		
					25-29	00-3084	00-3081		
	26 SI 2B	One	2	2	26-9	00-3190	00-3176		
					26-11	00-3191	00-3175		
	29 PZR Spray	One	2	2	29-10	00-3051	00-3049		
					29-11	00-3052	00-3049		
					29-7	01-3405	01-3404		PSE
					29-9	01-3406	01-3404		PSE
	31 PZR Safety	One	1	1	31-1	01-3276	01-3272		
B 9.21 & 9.22	27 PZR Spray	One	4	4	9-11		01-3027		
					27-42		01-3027		
					27-43		01-3027		
					27-44		01-3027		
	28 PZR Spray 1A	One	4	4	28-31		00-3070		
					28-32		00-3070		
					28-39		00-3070		
					28-40		00-3070		
	30 Aux PZR Spray	One	2	2	30-1	00-3053			Augmented
					30-2	00-3053			Augmented
					30-4		00-3068		
					30-7		00-3068		
	32 Drain 1A	One	3	3	8-18		00-3034		
					32-1		00-3034		
					32-2		00-3034		
	36 Letdown	One	4	4	36-8		00-3201		
					36-9		00-3201		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	37 Charging	One	5	5	36-28 36-35 37-41 37-42 37-43 37-45 37-47		00-3255 00-3255 00-3202 00-3202 00-3202 00-3202 00-3202		
	39 HPSI A	One	2	2	39-1 39-5		00-3204 00-3203		
	40 HPSI B	One	3	3	40-1 40-2 40-3		01-3346 01-3346 01-3346		
B 9.31	06 RCS Piping	One	1	1	9-8	01-3408	01-3345		
B 9.32	06 RCS Piping 22 SD Cooling	One One	1 1	1 1	8-17 22-7A		00-3030 00-3107		
B 9.40	32 Drain 1A	One	1	1	32-6		00-3109 01-3318 01-3318 01-3444		PSE PSE
	38 Drain 1	One	1	1	32-8 38-5				
B 10.10	36 Letdown	One	1	1	RC91H5 RC91H6		00-3255 00-3255		
B 12.20	17 RCP 1B	One	1	1	Pump			01-3001	Disassembled
B 13.10	01 RPV	One	100%	100%	N/A			01-3397 01-3398	Accessible areas
B 14.10	02 Head	One	4	4	2-9 2-9 2-10 2-10	00-3060 00-3061 00-3062 00-3063 00-3064 00-3065	00-3199 00-3199 00-3199 00-3199		CEDM # 84 CEDM # 88 CEDM # 84 CEDM # 88
B 15.10,20, RCS Piping 30,40,50, 60,70		One	ALL	ALL	Press Bound		00-3543 00-3112 01-3058,01-3065 01-3396,01-3464 01-3467,01-3508 01-3509,01-3513 01-3514		Bolting RR 11&12
BFLYWH	16 RCP 1A	One	1	1	Fly Wheel	01-3426			
	17 RCP 1B	One	1	1	Fly Wheel	01-3427			
	18 RCP 2A	One	1	1	Fly Wheel	01-3428			
	19 RCP 2B	One	1	1	Fly Wheel	01-3429			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.10	20 PZR Surge	One	2	2	RC28H1			00-3010	
					RC28H2			00-3011	
	21 SD Cooling A	One	7	7	SI240H10			00-3007	
					SI240H11			00-3008	
					SI240H13			00-3009	
					RC51H1			01-3028	Support deleted
					RC51H2			01-3205	
					RC51H3			01-3206	
					RC51H821			01-3204	
	22 SD Cooling B	One	4	4	RC68H5			00-3097	
					RC68H6			00-3197	
					SI193H17			00-3095	
					SI193H19			00-3096	
	23 SI 1A	One	1	1	SI207H5			01-3016	Support deleted
	24 SI 1B	One	2	2	SI223H3			00-3067	
					SI223H4			00-3002	
	25 SI 2A	One	2	2	SI156H7			00-3076	
					SI156H9			00-3077	
	26 SI 2B	One	2	2	SI179H9			00-3001	
					SI179H11			00-3198	
	27 PZR Spray 1A	One	9	9	RC62H26			00-3012	
					RC62H27			00-3013	
					RC62H28			00-3014	
					RC62H29			00-3015	
					RC62H30			00-3016	
					RC62H31			00-3017	
					RC62H32			00-3018	
					RC62H33			00-3019	
					RC62H34			00-3020	
	28 PZR Spray 1B	One	9	9	RC17H24			00-3003	
					RC17H34			00-3021	
					RC17H35			01-3021	
					RC17H36			00-3022	
					RC17H38			00-3023	
					RC17H39			00-3024	
					RC17H40			00-3025	
					RC17H41			00-3026	
					RC17H42			00-3027	
	29 PZR Spray	One	2	2	RC18H16			00-3037	
					RC18H18			00-3036	
	32 Drain 1A	One	2	2	RC60HA			00-3039	
					RC60HB			00-3040	
	36 Letdown	One	9	9	RC91H1			00-3256	
					RC91H5			00-3257	
					RC91H6			00-3258	
					RC91HB			00-3216	
					RC91HD			00-3213	
					RC91HE			00-3218	
					RC91HY			00-3214	
					RC91HZ			00-3215	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					RC91HAA			00-3219	
					RC91HAK			00-3217	
	37 Charging	One	14	14	CH5H2			00-3231	
					CH5H3			00-3232	
					CH5H20			01-3473	PSE
					CH5H25			00-3233	
					CH5H26			00-3225	
					CH5H27			00-3224	
					CH5H28			00-3222	
					CH5H30			00-3226	
					CH5H34			00-3220	
					CH5H35			00-3221	
					CH5H36			00-3223	
					CH5H42			00-3234	
					CH5H43			00-3486	
					CH5H44			00-3235	
					CH5HAA			00-3236	
	39 HPSI A	One	4	4	SI248H26			00-3228	
					SI248H27			00-3227	
					SI248H28			00-3229	
					SI248H30			00-3230	
	40 HPSI B	One	3	3	SI199H13			01-3029	
					SI199H14			01-3030	
					SI199H21			01-3031	Support deleted
F 1.40	03 SG 1	One	1	1					
					3-40			01-3319	
	16 RCP 1A	One	2	2	16-17			00-3489	
					16-18			00-3528	
	17 RCP 1B	One	2	2	17-17			00-3527	
					17-18			00-3527	
	18 RCP 2A	One	4	4	18-12			00-3004	
					18-13			00-3004	
					18-14			00-3004	
					18-15			00-3004	
	19 RCP 2B	One	4	4	19-12			00-3005	
					19-13			00-3005	
					19-14			00-3005	
					19-15			00-3005	
C 1.10	41 SG 1	One	1	1	41-3	01-3403			Examined 0 -180
					41-4	01-3402			Examined 0 -180
	68 Regen HTEXCH	One	3	3	68-3	01-3328			
					68-5	01-3330			
					68-7	01-3332			
	69 Letdown HTEXCH	One	50%	50%	69-1	00-3276			Examined 0 -180
C 1.20	41 SG 1	One	1	1	41-5	01-3395			Examined 0 -180
	68 Regen HTEXCH	One	2	2	68-4	01-3329			
					68-6	01-3331			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 1.30	41 SG 1	One	1	1	41-1	01-3082			Examined 0 -180
	68 Regen HTEXCH	One	4	4	68-1	01-3326			
					68-2	01-3327			
					68-8	01-3333			
					68-9	01-3334			
	69 Letdown HTEXCH	One	50%	50%	69-2	00-3277			Examined 0 -180
C 2.21	41 Blowdown	One	1	1	41-62	01-3342	01-3324		
	42 Blowdown	One	1	1	42-63	01-3341	01-3323		
C 3.10	41 SG 1	One	1	1	41-36		01-3400		
	68 Regen HTEXCH	One	2	2	68-10		01-3311		
					68-11		01-3311		
C 3.20	45 MS SG2	One	1	1	SG42H14		00-3072		First Interval RR 14
	55 Feedwater	n/a	1	1	SG5H6		00-3282		
		One	1	1	SG5H9		01-3320		
	64 Blowdown	One	2	2	SG39H15		01-3343		
					SG39H17		01-3071		
							01-3343		
	65 Blowdown	n/a	1	1	SG48H23		00-3283		First Interval RR 14
		One	2	2	SG48H20		01-3344		
					SG-52H1		01-3022		
	71 LPSI Discharge	One	1	1	SI87H11		00-3392		
	76 CS Suction	One	1	1	SI9H4		00-3393		
	88 East Wrap	One	1	1	SI72H13		00-3055		
	89 East Wrap	One	1	1	SI194H14		00-3054		
	91 West Wrap	One	4	4	SI70H9		00-3265		
					SI70H11		00-3485		
					SI70H12		00-3261		
					SI70H16		00-3485		
	92 West Wrap	One	1	1	SI241H21		00-3488		
	100 LPSI Suction	One	1	1	SI369H1		00-3151		
	102 SI	One	3	3	SI307H2		01-3242		
					SI307H3		01-3240		
					SI307H15		01-3242		
	113 HPSI	One	1	1	SI107H22		01-3244		
C 3.30	72 LPSI	One	3	3	72-3A		01-3213		
					72-3B		01-3213		
					72-3C		01-3213		
	116 HPSI	One	4	4	116-1A		01-3233		
					116-1B		01-3233		
					116-1C		01-3233		
					116-1D		01-3233		
C 4.40	47 MS SG 1	One	20	20	V170	01-3469			
	48 MS SG 1	One	20	20	V180	01-3469			

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 5.11 & 5.12	58 Aux Feedwater	One	0	4	58-1	00-3524	00-3273		PSE
					58-2	00-3521	00-3273		PSE
					58-3	00-3522	00-3272		PSE
					58-4	00-3523	00-3273		PSE
	59 Aux Feedwater	One	0	3	59-6	01-3460	01-3447		PSE
						01-3463			PSE
					59-37	01-3461	01-3447		PSE
						01-3462			PSE
	63 Aux FW	One	1	1	63-4	01-3446	01-3392		
	70 & 73LPSI Suction A & B	One	1	1	70-58	00-3455	00-3448		
	82 & 85 SD Cooling A & B	One	2	2	72-50	00-3479	00-3390		
	83 & 86 SD Cooling A & B	One	4	4	73-49	01-3347	01-3245		
					74-19	00-3480	00-3391		
					74-21	00-3482	00-3391		
					74-22	00-3481	00-3391		
	88 & 91 East & West Wrap	One	6	6	74-105	00-3483	00-3391		
					78-16	00-3195	00-3147		
					74-44	00-3484	00-3264		
					76-2	00-3487	00-3263		
					76-21	01-3278	01-3217		
					77-7	01-3246	01-3217		
	94 SI	One	1	1	77-14	01-3279	01-3217		
					74-40	01-3216	01-3215		
					96,97,98,99 LPSI Loop	00-3194	00-3173		
					1A,1B, 2A, 2B	00-3193	00-3174		
	102 SI	One	1	1	79-23	01-3335	01-3389		
					84-12	01-3277	01-3240		
					86-57	01-3252	01-3239		
					85-46	01-3468	01-3391		
	103 SI	One	1	1		01-3458			PSE
	104 SI	One	1	1					
	105 SI	One	1	1	87-23	01-3253	01-3241		
C 5.21	106 & 107 HPSI	One	4	4	106-1	01-3199	01-3197		
					106-21	01-3219	01-3218		
					107-11	01-3248	01-3237		
					107-42	01-3247	01-3237		
	108 & 109 HPSI	One	2	2	109-4	01-3202	01-3072		
					109-21	01-3200	01-3072		
	110 & 111 HPSI	One	2	2	110-6	01-3203	01-3071		
					110-39	01-3198	01-3071		
	112 & 113 HPSI	One	3	3	112-1	01-3251	01-3238		
					112-33	01-3250	01-3238		
					112-45	01-3249	01-3238		
	114 & 115 HPSI	One	1	1	115-13	01-3336	01-3393		
C 5.30	106 & 107 HPSI	One	1	1	107-53		01-3237		
C 5.41 & 5.42	82 & 85 SD Cooling A & B	One	1	1	72-49B		00-3390		
	88 & 91 East & West	One	1	1	74-102		00-3262		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	Wrap								
C 5.51 & 5.52	43 MS SG1 90	One	1	1	43-2	00-3111	00-3071		
	44 MS SG1 270	One	1	1	44-1	00-3150	00-3073		
	46 MS SG2 90	One	1	1	46-25	00-3192	00-3094		
	54 FW SG 1	One	1	1	54-41	01-3212	01-3201		
	55 FW SG 2	One	2	2	55-1	01-3024	01-3023		
					55-15	01-3025	01-3023		
	58 Aux Feedwater SG1	One	1(5)	1(5)	41-33	00-3526	00-3272		
					(58-1)	00-3524	00-3273		
					(58-12)	00-3048	00-3031		() signifies augmented examinations
					(58-13)	00-3047	00-3031		
					(58-16)	00-3046	00-3031		
					(58-16A)	00-3045	00-3031		
	59 Aux Feedwater SG2	One	0(5)	0(5)	(59-1)	00-3269	00-3260		
					(59-12)	00-3044	00-3032		
					(59-13)	00-3041	00-3032		
					(59-16)	00-3042	00-3032		
					(59-16A)	00-3043	00-3032		
					59-38	01-3459	01-3447		PSE
	64 Blowdown	One	1	1	64-1	01-3339	01-3322		
	65 Blowdown	One	1	1	65-28	01-3340	01-3321		
C 6.10	116 HPSI	One	1	1	116-2		01-3243		
C 7.10, 7.30,7.50, 7.70	Periodic Pressure Test	One	n/a	n/a	n/a				01-3057,01-3061 01-3062,01-3065 01-3066,01-3067 01-3069,01-3070 01-3220 01-3221,01-3222 01-3223,01-3224 01-3225,01-3226 01-3227,01-3228 01-3229,01-3230 01-3231,01-3232 01-3355,01-3360 01-3361,01-3365 01-3366 01-3367,01-3368 01-3369,01-3370 01-3371,01-3372 01-3373,01-3374 01-3375,01-3376 01-3377,01-3378 01-3379,01-3380 01-3381,01-3390 01-3396 01-3464,01-3465 01-3466,01-3467 01-3504,01-3505

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
								01-3508,01-3509 01-3510,01-3511 01-3514,01-3515 01-3516,01-3518 01-3519,01-3520 01-3522,01-3523 01-3525	
F 1.20 & F 1.40	41 SG 1	One	2	2	41-36 41-37			01-3443 01-3445	
	43 MS SG 1 90	One	2	2	SG36H17 SG36H884 SG36H885			00-3075 00-3410 00-3411	
	44 MS SG1 270	One	2	2	SG33H17 SG33H18			00-3078 00-3079	
	45 MS SG 2 270	One	1	1	SG42H14			00-3074	
	46 MS SG 2 90	One	2	2	SG45H17 SG45H18			00-3098 00-3099	
	47 MS SG1 270	One	1	1	SG206H1			00-3529	
	51 Atm. Dump SG1	One	1	1	SG59H6			00-3449	
	53 Steam to Aux FW	One	4	4	SG81H1 SG81H2 SG83H1 SG83H2			00-3106 00-3105 00-3104 00-3103	
	54 FW SG 1	One	7	7	SG2H4 SG2H5 SG2H12 SG2H13 SG2H14 SG2H15 SG2H803			01-3208 01-3209 01-3018 01-3214 01-3210 01-3211 01-3019	
	55 FW SG 2	One	8	8	SG5H9 SG5H10 SG5H11 SG5H12 SG5H805 SG5H809 SG14H1 SG14H804			01-3350 01-3348 01-3349 01-3011 01-3012 01-3014 01-3013 01-3015	Support deleted
	58 Aux FW	One	7	7	SG8H2 SG8H3 SG8H4 SG8H5 SG8H20 SG8H901 SG8H903			01-3436 01-3435 01-3434 01-3433 01-3432 01-3431 01-3430	
	59 Aux FW	One	6	6	AF6H1 SG11H8 SG11H9 SG11H10 SG11H11			00-3238 00-3240 00-3239 00-3241 00-3242	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
60 FW SG1		One	1	1	SG11H12			00-3237	
					SG200H9			00-3530	
					SG200H13			00-3534	PSE
61 FW SG 2		One	0	0	SG200H14			00-3533	PSE
					SG203H13			00-3531	PSE
					SG203H14			00-3532	PSE
62 Aux FW SG1		One	1	1	AF4H3			00-3102	
63 Aux FW SG2		One	2	2	AF6H2			00-3100	
					AF16H1			00-3101	
					SG39H10			01-3032	
64 Blowdown		One	10	10	SG39H11			01-3033	Support deleted
					SG39H12			01-3034	
					SG39H13			01-3035	Support deleted
					SG39H14			01-3036	Support deleted
					SG39H15			01-3037	
					SG39H16			01-3038	
					SG39H17			01-3039	Support deleted
					SG39H26			01-3040	
					SG53H2			01-3020	Support deleted
					SG48H2			01-3010	Support deleted
65 Blowdown		One	10	10	SG48H3			01-3043	Support deleted
					SG48H4			01-3044	
					SG48H19			01-3045	Support deleted
					SG48H20			01-3046	Support deleted
					SG48H21			01-3047	
					SG52H1			01-3008	Support deleted
					SG52H2			01-3009	Support deleted
					SG52H3			01-3041	Support deleted
					SG52H4			01-3042	
					68-10			01-3312	
68 Regen HTEXCH		One	2	2	68-11			01-3312	
					SI67H4			00-3249	
					72-3A			01-3207	
70 LPSI Suction A		One	1	1	72-3B			01-3207	
72 LPSI		One	3	3	72-3C			01-3207	
					SI87H11			00-3394	
					SI308H12			00-3120	PSE
71 LPSI Discharge A		One	1	1	SI9H4			00-3395	
					SI67H1			01-3256	PSE
					SI67H3			01-3257	PSE
73 LPSI Suction B		One	0	0	SI79H1			00-3243	
					SI79H2			00-3244	
					SI79H3			00-3246	
					SI79H4			00-3245	
					SI34H1			00-3169	
76 CS Suction A		One	1	1	SI34H2			00-3168	
					SI34H3			00-3167	
					SI34H1			00-3128	PSE
					SI34H3			00-3122	PSE
					SI33H4			00-3117	PSE
					SI34H6			00-3196	PSE
77 CS Discharge A		One	4	4					
79 CS Suction B		One	3	3					

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	80 CS Discharge B	One	3	3	SI119H7			00-3166	
					SI119H8			00-3165	
					SI119H9			00-3164	
	82 SD Cooling A	One	2	2	SI78H5			00-3248	
					SI79H10			00-3247	
	83 SD Cooling A	One	4	4	SI87H9			00-3250	
					SI89H1			00-3253	
					SI89H2			00-3251	
					SI89H3			00-3252	
	85 SD Cooling B	One	3	3	SI119H10			00-3158	
					SI123H6			00-3160	
					SI123H7			00-3159	
	86 SD Cooling B	One	3	3	SI129H10			00-3157	
					SI129H11			00-3156	
					SI129H12			00-3155	
	88 East Wrap	One	8	8	SI72H11			00-3056	
					SI72H13			00-3058	
					SI72H14			00-3057	
					SI72H21			01-3451	
					SI72H22			01-3452	
					SI73H1			01-3448	
					SI73H2			01-3449	
					SI73H3			01-3450	
	89 East Wrap	One	4	4	SI194H12			00-3154	
					SI194H13			00-3153	
					SI194H14			00-3059	
					SI194H23			00-3152	
					SI38H1			00-3183	PSE
					SI194H13			00-3177	PSE
	91 West Wrap	One	7	7	SI70H9			00-3398	
					SI70H10			00-3397	
					SI70H11			00-3413	
					SI70H12			00-3399	
					SI70H13			00-3414	
					SI70H14			00-3415	
					SI70H15			00-3396	
					SI70H16			00-3412	
	92 West Wrap	One	5	5	SI239H3			00-3402	
					SI241H9			01-3260	PSE
					SI241H11			01-3261	PSE
					SI241H12			00-3274	
								01-3262	PSE
					SI241H14			00-3400	
								01-3263	PSE
					SI241H15			00-3401	
					SI241H21			00-3490	
	94 LPSI A	One	3	3	SI89H7			00-3467	
					SI89H8			00-3466	
					SI89H9			00-3465	
					SI241H5			01-3258	PSE
					SI241H7			01-3259	PSE

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	95 LPSI B	One	6	6	SI241H8			01-3271	PSE
					SI72H8			00-3464	
					SI72H10			00-3459	
					SI134H11			00-3458	
					SI134H12			00-3542	
					SI194H3			00-3506	
					SI194H5			00-3511	
					SI194H5			00-3126	PSE
					SI194H7			00-3125	PSE
					SI194H15			00-3124	PSE
					SI194H21			00-3119	PSE
	96 LPSI to Loop 1A	One	3	3	SI202H7			00-3496	
					SI202H8			00-3495	
					SI202H9			00-3494	
	97 LPSI to Loop 1B	One	10	10	SI220H9			00-3505	
					SI220H10			00-3504	
					SI220H11			00-3503	
					SI220H12			00-3502	
					SI220H13			00-3501	
					SI220H14			00-3500	
					SI220H15			00-3499	
					SI220H19			00-3498	
					SI220H22			00-3497	
					SI220H8			01-3472	
	98 LPSI to Loop 2A	One	2	2	SI155H5			00-3163	
					SI155H6			00-3162	
	100 LPSI A Suction	One	2	2	SI241H19			00-3029	
					SI369H1			00-3161	
	102 SI	One	6	6	SI8H4			01-3254	PSE
					SI9H1			01-3255	PSE
					SI307H2			01-3264	PSE
								01-3281	
					SI307H3			01-3282	
					SI307H4			01-3470	Support deleted
					SI307H5			01-3265	PSE
								01-3283	
					SI307H6			01-3266	PSE
					SI307H7			01-3267	PSE
					SI307H8			01-3471	
					SI307H15			01-3284	
	103 Refuel Suction A	One	6	6	CH142H13			00-3519	
					CH142H14			00-3518	
					CH142H15			00-3517	
					CH142H19			00-3516	
					CH142H22			00-3515	
					CH424H1			00-3520	
					CH424H2			01-3269	PSE
					CH424H3			01-3270	PSE
					SI142H3			01-3268	PSE
	104 SI Suction B	One	7	7	SI33H1			00-3512	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					SI33H2			00-3513	
					SI33H3			00-3514	
					SI308H5			00-3507	
					SI308H8			00-3508	
					SI308H10			00-3509	
					SI308H11			00-3510	
					SI031H1			00-3127	PSE
					SI308H2			00-3180	PSE
					SI308H4			00-3181	PSE
					SI308H5			00-3182	PSE
					SI308H9			00-3115	PSE
105 Refueling Water	One	7	7		CH149H3			00-3116	PSE
					CH149H5			00-3123	PSE
					CH149H7			00-3121	PSE
					CH149H8			00-3184	PSE
					CH149H12			00-3179	PSE
					CH149H14			00-3178	PSE
					CH149H21			00-3118	PSE
					CH149H9			01-3285	
					CH149H10			01-3286	
					CH149H12			01-3287	
					CH149H13			01-3288	
					CH149H14			01-3289	
					CH149H21			01-3280	
					CH149H28			01-3290	
106 HPSI	One	8	8		SI99H1			01-3422	
					SI99H2			01-3423	
					SI100H1			01-3417	
					SI100H2			01-3418	
					SI100H3			01-3419	
					SI100H5			01-3420	
					SI100H34			01-3421	
					SI106H1			01-3424	
107 HPSI	One	6	6		SI107H3			01-3352	
					SI107H11			01-3293	
					SI107H12			01-3292	
					SI112HC			01-3353	
					SI112HG			01-3351	
					SI112HH			01-3291	
108 HPSI Discharge	One	11	11		SI100H22			00-3468	
					SI100H23			00-3469	
					SI100H24			00-3470	
					SI100H25			00-3471	
					SI100H26			00-3472	
					SI100H27			00-3473	
					SI100H28			00-3474	
					SI100H29			00-3475	
					SI100H31			00-3476	
					SI100H32			00-3478	
					SI100H35			00-3477	
109 HPSI	One	7	7		SI107H13			01-3437	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					SI107H14			01-3438	
					SI107H15			01-3439	
					SI107H16			01-3440	
					SI107H21			01-3441	
					SI107H47			01-3442	
					SI107H50			01-3425	
110	HPSI	One	7	7	SI103HB			01-3298	Support deleted
					SI103HD			01-3299	
					SI103HE			01-3300	
					SI218H1			01-3294	
					SI218H2			01-3295	
					SI218H3			01-3296	
					SI218H4			01-3297	
111	HPSI	One	3	3	SI100H37			01-3302	
					SI100HA			01-3354	
					SI100HB			01-3301	
112	HPSI	One	3	3	SI176H1			01-3303	
					SI176H2			01-3304	
					SI176H3			01-3305	
113	HPSI	One	5	5	SI107H22			01-3309	
					SI107H24			01-3310	
					SI157H2			01-3306	
					SI157H3			01-3307	
					SI157H4			01-3308	
116	HPSI	One	4	4	116-1A			01-3234	
					116-1B			01-3234	
					116-1C			01-3234	
					116-1D			01-3234	

APPENDIX B

CODE LIMITATIONS

The following list of welds are single side access austenitic butt welds. Based on the requirements of 10CFR50.55a full credit cannot be taken for the ASME Section XI required code examination volume.

Table 1:

ASME Item	Zone	Weld	Coverage	Report #
B 9.11	23	23-4	50%	01-3055, 01-3053
B 9.11	23	23-6	50%	01-3056 01-3054
C 1.30	68	1	50%	01-3326
C 1.30	68	2	50%	01-3327
C 1.30	68	8	50%	01-3333
C 1.30	68	9	50%	01-3334
C 5.11	63	63-4	50%	01-3446
C 5.11	91	77-7	50%	01-3246
C 5.11	91	77-14	50%	01-3279
C 5.11	102	84-12	50%	01-3277
C 5.11	104	85-46	50%	01-3468
C 5.21	106	1	50%	01-3199
C 5.21	106	21	50%	01-3219
C 5.21	107	11	50%	01-3248
C 5.21	107	42	50%	01-3247
C 5.21	109	21	50%	01-3200
C 5.21	110	39	50%	01-3198
C 5.21	112	45	50%	01-3249
C 5.21	115	13	50%	01-3336

APPENDIX C

IWL INSERVICE INSPECTION SUMMARY REPORT

APPENDIX C

SPECIFIC REPORTING REQUIREMENT:

10CFR50.55a(b)(2)(viii)(D) states: "The licensee shall report the following conditions, if they occur, in the ISI Summary Report required by IWA-6000;

1. The sampled sheathing filler grease contains chemically combined water exceeding 10 percent by weight or the presence of free water.
2. The absolute difference between the amount removed and the amount replaced exceeds 10 percent of the tendon net duct volume.
3. Grease leakage is detected during general visual examination of the containment surface.

CONDITIONS IDENTIFIED:

1. During the unit 3 baseline concrete containment visual examination per subsection IWL, six through wall tendon grease leaks were identified (ref. Visual Examination Reports# 2001-1336, 1339, 1342, 1415, 1472, 1480). Three of the tendon grease leaks had been previously identified (in November of 1993) and evaluated as acceptable on CRDR# 3-3-0454. The dimensions of the concrete discoloration due to the tendon grease leakage at all three of the conditions identified in CRDR# 3-3-0454 have remained unchanged.

The three new tendon grease leaks are also small weeps. Random monitoring (from September of 2001 to present) has verified that the dimensions of the concrete discoloration due to the tendon grease leakage has also remained unchanged. The new tendon grease leaks were documented and evaluated as acceptable on CRDR# 2418685.

The insignificant tendon grease leakage will not create a void in a tendon sheath nor inhibit the corrosion protection function of the tendon grease. For unit 3, the Tendon Integrity surveillance and Integrated Leak Rate Test programs have consistently demonstrated the structural integrity and leak tight integrity of the concrete containment structure.

APPENDIX D

FORM NIS-1

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 - 3
4. OWNERS' CERTIFICATE OF AUTHORIZATION - *NONE*
5. COMMERCIAL SERVICE DATE - January 8, 1988
6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO
<p>This report is a running summary of all second interval examinations performed to date for Unit 3. The report also includes several examinations that were deferred by relief request for the first inservice interval. The items examined, along with the examination report numbers, are listed in Appendix A.</p>				

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 9-28-2001 TO 11-05-2001
8. INSPECTION INTERVAL FROM 1-11-98 TO 1-10-2008
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME Item Numbers with the corresponding examination report numbers. All of the examinations for the ninth refueling are identified with a 01-3XXX report number and are in bold face.

10. ABSTRACT OF CONDITIONS NOTED

No rejectable conditions were detected during the performance of examinations.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

No corrective measures were taken as a result of the examinations performed. A MNSA clamp was installed on the RCS hot leg in accordance with Request for Relief 17.

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

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

DATE 1/02/02 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Michael A. Meekins

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 5-1-00 TO 11-5-01, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS 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 RA J. Jorgensen COMMISSIONS NB 9685 "N" "I" "C" Az 264
 DATE 1-2-02 NAT'L BOARD, STATE, PROVINCE

APPENDIX E

FORMS NIS-2

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIBUV0332 2. Code Class 1

3. Item Description HOT LEG INJECTION B CHECK VALVE LEAKOFF VALVE

4. N-5 Package Number 3RC01-3 5. W.O. Number 212187

6. Original Construction Code Edition ASME SECT. III, CL 1 1974 EDITION S'75 ADD

7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD

8. Work Description REPLACE THE PLUG TO ALLIVATE SEAT LEAKAGE. REPLACE THE
LEAKOFF PIPING WITH A PIPE CAP PER 13-PN-204,
ATTACHMENT 5. J.O. 10-12-01

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.
Seat leakage. No failure in the ASME boundary. RPR
5/22/01

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE

12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD

13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD

14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
JD 05/22/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
JD 05/22/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
JD 05/22/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
JD 05/22/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
PLUG/STEM ASSEMBLY	214452X102	37492	N/A	000586062
PIPE CAP	CT0505	N/A	1492WA	000585515

19. Planner [Signature] 5-22-01 Print Name JAMES I. DAVIS
Signature Date
20. ISI Engineer [Signature] 5-22-01 Print Name R. P. INTAP
Signature Date
21. ANII [Signature] 5-22-01 Print Name R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/15/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 212187
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code ASME Sec III, Cl 1 19 74 Edition, S'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	FISHER	6540515	4602	3JSIBUV0332	1979	Repaired	Yes
VALVE PLUG	FISHER	37492	NA	3JSIBUV0332	2001	Replacement	No
CAP	N/A	N/A	149ZNA	3JSIBUV0332	2001	Replacement	No

7. Description of Work REPLACE THE VALVE PLUG TO ALLIEVIATE SEAT LEAKAGE.

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

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

FORM NIS-2 (Back)

9. Remarks Work Order 212187 replaced the valve plug because of seat leakage. The work order also replaced the leakoff piping with a pipe cap per the requirements of 13-PN-0220 (valve packing procedure).

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISI ENGINEER Date 10-17-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-22-01 to 10-17-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 17, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHEUV0239 2. Code Class ASME III CL. 2
 3. Item Description 2" AIR OPERATED GLOBE VALVE
 4. N-5 Package Number 3CH15-3 5. W.O. Number 234912
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description VALVE DISASSEMBLY DUE TO SEAT LEAKAGE

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement is to correct seat leakage. No failure in the
ASME boundary. RPR 7/18/01

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition SEC. III CL.2/'74 ED. SUMMER '75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition SEC. III CL.2/'74 ED. WINTER '75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
AB 7/18/2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
AB 07/18/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
AB 07/18/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
AB 07/18/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JCHEHV0239	1U4617X0032(plug)	CB 3976-1	30534	585403
PIPE CAP	APD 435506U	N/A	149 ZNA	PL 0522856

19. Planner [Signature] 7/14/01 Print Name James G. Boulanger
Signature Date
 20. ISI Engineer [Signature] 7/18/01 Print Name R.P. INDAP
Signature Date
 21. ANII [Signature] 10-14-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/14/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 234912
Address Work Order Number

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

Authorization No. N/A

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

4. Identification of System CVCS-CH Chemical & Volume Control System

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S '75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Plug/Stem Assembly	Fisher	CB3976-1	N/A	3JCHEHV239	1990	Replacement	Yes
Cap	N/A	N/A	N/A	3JCHEHV239	2001	Replacement	No

7. Description of Work Disassembled vlv to correct seat leakage, replaced vlv plug & capped leak-off port.

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 234912

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed *Frank B. Burt* SR. ISI ENGINEER Date 10/14/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-14-01 to 10-14-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Frank B. Burt Commissions NB 9685 "N" "I" Az 264
Inspector's Signature National Board, State, Province, and Endorsements

Date 10/14/01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PSGEL011 2. Code Class ASME Section III, Class 2
3. Item Description Pipe Spool S-008
4. N-5 Package Number 3SG02-2 5. W.O. Number 242142
6. Original Construction Code Edition 1974 Edition, Winter 1975 Addenda
7. Original Installation Code Edition 1974 Edition, Winter 1975 Addenda
8. Work Description Replacement of Piping Spool due to Flow Accelerated Erosion/Corrosion, ENGDM# 242141.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Replacement of Eroded Pipe with Stainless Steel as described in ENGDM# 242141, EDC# 2000-00403. There has been no failure of the Code Pressure boundary.

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

15. Preservice Inspection Required. ☒ YES ☐ NO
KVS 8/8/2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
KVS 8/8/2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
KVS 8/8/2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
KVS 8/8/2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
8" S.S. Pipe	00052303	184169	F00154	MR# 528893
8" S.S. PIPE	64731		27589	PO 500242330

19. Planner Karl V. Savage 8/8/2001 Print Name Karl V. Savage
Signature Date
20. ISI Engineer R. Indap 8/14/01 Print Name Ramakant P. Indap
Signature Date
21. ANII R. Hogstrom 8-14-01 Print Name Robert G. Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 04/28/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 242142
Address Work Order Number

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

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, AZ 85354-7529 Expiration Date N/A
Address

4. Identification of System SG

5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, W '75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Pipe Spool	N/A	N/A	N/A	3PSGEL011	2001	Replacement	No

7. Description of Work Replaced pipe spool due to flow accelerated erosion/corrosion of original pipe.

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Pressure Test per N-416-1, WO# 242142, Replaced Portion of Pipe Spool S-008 Of Line
3PSGEL011 with Stainless Steel.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL Browning RLB ISI Engineer Date 11/3/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-14-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RL Browning Commissions NB 9685 "N" "I" AZ264
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SG200H003 Top 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 35 KIP SNUBBER
4. N-5 Package Number 3AF02-2 5. W.O. Number 1129067
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like replacement
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
Dmg 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Dmg 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 3-8-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3SG200H003 Top	N/A	6289	N/A	N/A

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date

20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date

21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1129067
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "SG" Steam Generator
5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W75 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
35 Kip Snubber	Pacific Scientific	6289	N/A	3SG200H003T	1980	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#1129067 Removed snubber Serial number 9563 and replaced it with serial number 6289

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Bondap, ISE Engineer Date 6-05-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 5-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Bondap
Inspector's Signature

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

Date 5 JUNE 01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PC022H016 2. Code Class SECTION III Subsection NF Class 3
 3. Item Description 10 KIP SNUBBER
 4. N-5 Package Number 3PC02-3 5. W.O. Number 1187145
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This a like for like replacement

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☒ YES ☐ NO
DMG 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

DMG 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

DMG 3-8-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3PC022H016	N/A	13086	N/A	N/A

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1187145
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "PC" Pool Cooling
5. (a) Applicable Construction Code Subsect. NF Class 3 19 74 Edition, W'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
10 Kip Snubber	Pacific Scientific	13086	N/A	3PC022H016	1982	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks WO#1187145 Removed snubber Serial number 9680 and replaced it with serial number 13086

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISI Engineer Date 6-5-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9685 "N" "I" A2. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date JUNE 5, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SG095H004 2. Code Class SECTION III Subsection NF Class 2
 3. Item Description 1 KIP SNUBBER
 4. N-5 Package Number 3SG03-1 5. W.O. Number 1187155
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Remove snubber, test, and reinstall.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like replacement

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
David 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
David 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
David 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
David 3-8-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3SG095H004	N/A	4690	N/A	N/A

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1187155
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System "SG" Steam Generator
5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
1Kip Snubber	Pacific Scientific	4690	N/A	3SG095H004	1978	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#1187155 Removed snubber Serial number 21604 and replaced it with serial number 4690

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISE Engineer Date 6-5-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date 6/5/01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SG095H008 EAST 2. Code Class SECTION III Subsection NF Class 2
3. Item Description 3 KIP SNUBBER
4. N-5 Package Number 3SG03-1 5. W.O. Number 1187156
6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
8. Work Description Replace Snubber
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a like for like replacement
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required.

☐ YES

☒ NO

Don G 3-8-2001
Initial Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

Don G 3-8-2001
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

Don G 3-8-2001
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Don G 3-8-2001
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3SG095H008 EAST	N/A	19440	N/A	N/A

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1187156
Address Work Order Number

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A
Address

4. Identification of System "SG" Steam Generator

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
3 Kip Snubber	Pacific Scientific	19440	N/A	3SG095H008E	1981	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks WO#1187156 Removed snubber Serial number 20543 and replaced it with serial number 19440

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] TSI Engineer Date 6-5-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions 2B 9685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date 6-5-2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3SI072H018 2. Code Class SECTION III Subsection NF Class 2
 3. Item Description 10 KIP SNUBBER
 4. N-5 Package Number 3SI07-5 5. W.O. Number 1197142
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Relace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Not a failure. Changed for precautionary measures. This is a Like for Like Replacement

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☒ YES ☐ NO
Dmg 3-8-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
Dmg 3-8-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
Dmg 3-8-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Dmg 3-8-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3SI072H018	N/A	5715	N/A	N/A

19. Planner David Goodlet 3-8-2001 Print Name David Goodlet
Signature Date
 20. ISI Engineer R.P. Indap 3/23/01 Print Name R.P. INDAP
Signature Date
 21. ANII Robert Hogstram 3-23-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/16/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 2
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 1197142
Address Work Order Number

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

Authorization No. N/A

5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A
Address

4. Identification of System "SI" Safety Injection

5. (a) Applicable Construction Code Subsect. NF Class 2 19 74 Edition, W'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
10 Kip Snubber	Pacific Scientific	5715	N/A	3SI072H018	1979	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks WO#1197142 Removed snubber Serial number 13231 and replaced it with serial number 5715

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R. P. Pindap, ISI Engineer Date 6-5-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 3-23-01 to 6-5-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Pindap
Inspector's Signature

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

Date 6-5-01

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JECALV0015 2. Code Class ASME SECT III CL3, 74 ED, WIN 75
3. Item Description ECWS EXP TANK CONTROL VALVE
4. N-5 Package Number 3EC-01-3 5. W.O. Number 00-2316913
6. Original Construction Code Edition ASME SECT III CL3, 74 ED, WIN 75
7. Original Installation Code Edition ASME SECT III CL3, 74 ED, WIN 75
8. Work Description Removal & installation of body to bonnet seal weld - to inspect valve internals RAE 1/31/01
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 ASME BOUNDARY.
11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT III CL3, 74 ED, WIN 75
13. Repair/Replacement Activity Construction Code/Edition ASME SECT III CL3, 74 ED, WIN 75
14. ASME Section XI Code/Edition 1992 EDITION and 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
RCO 1/9/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
RCO 1/9/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

RCO 1/9/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

RCO 1/9/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
PILOT DISC	102175-1	532	N/A	00496776-0002
MAIN DISC	200931-1	284	N/A	00496776-0001

19. Planner G. Osmundson 1/9/01 Print Name G. OSMUNDSON
Signature Date

20. ISI Engineer R. P. Indap 1/31/01 Print Name R. P. INDAP
Signature Date

21. ANII R. G. Hogstrom 1-31-01 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 00-2316913
Address Work Order Number

3. Work Performed by APS Type Code Symbol Stamp None
Name
SAME AS "2" ABOVE Authorization No. N/A
Address Expiration Date N/A

4. Identification of System 3EC01-3

5. (a) Applicable Construction Code ASME SEC III CL 3 19 74 Edition, W'75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Main disc	Target Rock	28A	N/A	3JECALV0015	2000	Replacement	No
Pilot disc	Target Rock	532	N/A	3JECALV0015	2000	Replacement	No

7. Description of Work REMOVE AND REPLACE MAIN & PILOT DISC AND REWELD SEAL WELD

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

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

FORM NIS-2 (Back)

9. Remarks SWMS WO#00-2316913 REPLACE MAIN DISC AND PILOT DISC IN VALVE
3JECALV0015 MFG TARGET ROCK.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Edgar M. Menden Sr. FSI Engineer
Owner or Owner's Designee, Title

Date 3-16-01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-31-01 to 3-22-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Edgar M. Menden
Inspector's Signature

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

Date March 22, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PSIAV404 2. Code Class 2
 3. Item Description HPSI "A" CHECK VALVE
 4. N-5 Package Number 3SI09-3 5. W.O. Number 2350651
 6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 8. Work Description INSTALL NEW VALVE INTERNALS AS REQUIRED DUE TO SEAT LEAKAGE.

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.
LIKE FOR LIKE REPLACEMENT

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
 14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A 1-31-01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
JD 1-31-01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
JD 1-31-01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
JD 1-31-01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
<u>DISC & STUB</u>	<u>79546</u>	<u>R5214333</u>	<u>98141</u>	<u>501183</u>

19. Planner [Signature] 1-31-01 Print Name JAMES I. DAVIS
 Signature Date
 20. ISI Engineer [Signature] 1-31-01 Print Name R. L. BROWNING
 Signature Date
 21. ANII [Signature] 1-31-01 Print Name R. G. HOUSTON
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2350651
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Safety Injection
5. (a) Applicable Construction Code ASME Sect III, Cl 2 19 74 Edition, W'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	Borg Warner	24678	N/A	3PSIAV404	1977	Repaired	Yes
DISC/STUD ASSY	Borg Warner	RS214333	N/A	3PSIAV404	2001	Replacement	Yes

7. Description of Work REPLACE THE DISC/STUD ASSEMBLY TO REDUCE THE DISC TILT

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

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

FORM NIS-2 (Back)

9. Remarks Work Order 2350651 replaced the disc and stud assembly to optimize valve performance.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISI ENGINEER Date 2-23-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-31-01 to 2-23-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date FEBRUARY 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MCHNE02 2. Code Class ASME SEC III CL 2
3. Item Description LET DOWN HEAT EXCHANGER
4. N-5 Package Number 3CH13-1 5. W.O. Number 2351211
6. Original Construction Code Edition 1974 EDITION, 1975 WINTER ADDENDA
7. Original Installation Code Edition 1974 EDITION, 1975 WINTER ADDENDA
8. Work Description REPLACEMENT OF END BELL STUDS AND NUTS DUE TO SURFACE CORROSION FOUND ON SOME OF THEM.
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.
SURFACE CORROSION FOUND ON BOLTING DURING HEAT EXCHANGER INSPECTION REQUIRED CHANGING.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SEC. III CL.2, '74 EDITION, '75W. ADD.
13. Repair/Replacement Activity Construction Code/Edition SEC. III CL.2, '74 EDITION, '75W. ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required.

☐ YES

☒ NO

AB 02/23/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

AB 02/23/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

AB 02/23/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

AB 02/23/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MCHNE02	APN# 43115017	N/A	JNJ	512092 & 512136
3MCHNE02	APN# 43126001	N/A	JUO	512092

19. Planner James A. Boulanger 02/23/01 Print Name JAMES BOULANGER
Signature Date

20. ISI Engineer Wiley Ahlstrom 02/23/01 Print Name WILEY AHLSTROM
Signature Date

21. ANII Bob Hogstrom 02/23/01 Print Name BOB HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/23/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2351211
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et. al. Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System CH - CVCS, ASME SEC III CL 2
5. (a) Applicable Construction Code SEC.III CL.2 19 74 Edition, '75 W Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
END BELL STUDS	N/A	N/A	N/A	3MCHNE02	2001	Replacement	No
END BELL NUTS	N/A	N/A	N/A	3MCHNE02	2001	Replacement	No

7. Description of Work During inspection of ht.exch. studs found to have surface corrosion and replaced
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks

WO# 2351211

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]

SR-ISI ENGINEER

Owner or Owner's Designee, Title

Date 2-25-01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-23-01 to 2-25-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspector's Signature

Commissions

CB 9685 "N" "I" 4. 264
National Board, State, Province, and Endorsements

Date

February 25, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.#2352004
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE RCP KITTYBONE BOLTING FOUND GALLED AND WITH ROUNDED HEADS.

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.
KITTYBONE BOLTING REPLACEMENT IS REQUIRED TO ASSEMBLE REACTOR COOLANT PUMP.
BEING REPLACE BECAUSE IT WAS GALLED.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 01/30/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES 2/27/01 ☒ NO
MBN 01/30/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 01/30/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 01/30/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
RCP KITTYBONE	SCM20-2.5X100S	N/A	8653209	511350-1
BOLTING 7/8 DIA				

19. Planner Michael B. Newell 01/30/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer Robert Browning 01/30/01 Print Name ROBERT BROWNING
Signature Date
 21. ANII Robert G. Hogstrom 01/30/01 Print Name ROBERT G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/28/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#2352004
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD TONOPAH AZ 85354 Expiration Date N/A
Address
4. Identification of System RC, ASME SECTION III, CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RCP KITTYBONE	N/A	N/A	N/A	3MRCEP01B	N/A	Replacement	No
BOLTS							

7. Description of Work REPLACE RCP KITTYBONE BOLTING.

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

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

FORM NIS-2 (Back)

9. Remarks REPLACEMENT REQUIRED BECAUSE OF GALLING W.O.#2352004.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] Date 2-28-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-30-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9685 "B" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE04C&D (RCP 1B) 2. Code Class 1
 3. Item Description REACTOR COOLANT PUMP SEAL COOLER
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2352005
 6. Original Construction Code Edition 1974 EDITION, NO ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description REPLACE COOLER DUE TO TUBING LEAK.

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.
ENG-DIDF WO #2351782.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION, NO ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION, WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 2-7-01 If required, include a step in the W.O. to perform Preservice Inspection.
 Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Initial 2-7-01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Date

Initial 2-7-01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Date

Initial 2-7-01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MRCEE04C&D	8000-300-004	B003	NA	

19. Planner Michael B. Newell 2-7-01 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R.P. Indap 2-7-01 Print Name R.P. INDAP
 Signature Date
 21. ANII R.G. Hoostrom 2-7-01 Print Name R.G. HOOSTROM
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/07/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#2352005
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH AZ 85354-7 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System (RC) REACTOR COOLANT SYSTEM.

5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, NO Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL COOLER	CE	L-6943	23461	3MRCEE04C/D	1984	Replacement	Yes

7. Description of Work REPLACED SEAL COOLER ASSEMBLY (SUBCOMPONENT OF RCP).

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure 2250 psi Test Temp. 565 °F

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

FORM NIS-2 (Back)

9. Remarks W.O.#2352005 SEAL COOLER 3MRCEE04C/D

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A Expiration Date 2/28

Signed [Signature] ASME ENGINEER Date 2-28-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 2-7-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions SB 9685 "S" "I" A2 2G4
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP.
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2352005
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING, ADAPTER SEAL HOUSING (TOP HAT), THRUST RING, AND III STAGE SEAL RETAINER.

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.
ABOVE ITEMS ARE BEING REPLACED FOR EASE OF INSTALLATION AND NO FAILURE INVOLVED PER DFWO#2371782.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☒ YES ☐ NO
MBN 02/28/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 02/28/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 02/28/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 02/28/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
SEAL HOUSING	8000-300-001	A005	n/a	WO# PCWO756777
ADAPTER SEAL HS	8000-307-001C007CS7	Q99-A861-SN7	n/a	WO#861907
III SEAL RETAINER	1663741	Q96-574-SN19	n/a	WO#2351683
(TOP HAT) STUDS	8000-300-026	SEE ATTACH	n/a	WO#736051
(TOP HAT) NUTS	8000-300-027	SEE ATTACH	n/a	WO#736051

19. Planner Michael B. Newell 02/28/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer [Signature] 2/28/01 Print Name [Signature]
Signature Date
 21. ANII [Signature] 2/28/01 Print Name R G HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 02/28/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.#2352005
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III CLASS 1
5. (a) Applicable Construction Code SEC III CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
SEAL HOUSING	CE-KSB	A005	N/A	3MRCEP01B	1984	Replacement	Yes
ADAPTER SEAL HS	CE-KSB	Q99-A861-SN7	N/A	3MRCEP01B	1984	Replacement	Yes
III STAGE RETAINER	Sulzer-Bingham	Q96-574-SN19	N/A	3MRCEP01B	1984	Replacement	Yes
(TOP HAT) BOLT/N	CE-KSB	SEE ATTACH	N/A	3MRCEP01B	1984	Replacement	No
(TOP HAT) NUTS	CE-KSB	SEE ATTACH	N/A	3MRCEP01B	1984	Replacement	No

7. Description of Work REPLACEMENT OF SEAL HOUSING ASSEMBLY ON RCP 1B.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure 2350 psi Test Temp. 565 °F

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

FORM NIS-2 (Back)

WO 2352005

9. Remarks ABOVE ITEMS ARE BEING REPLACE FOR EASE OF INSTALLATION AND NO FAILURE INVOLVED PER DFWO#2371782 AND 2352005. THRUST RING FROM PCWO#839215. III SEAL RETAINER IS FROM CMWO#2351683, ADAPTER SEAL HOUSING IS FABRICATED FROM WO#861907., SEAL HOUSING IS FROM PCWO#756777 AND TOP HAT STUDS AND NUTS IS FROM WO#736051.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISI ENGINEER Date 2-28-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 1-30-01 to 2-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NS 9285 "D" "I" AZ 204
Inspector's Signature National Board, State, Province, and Endorsements

Date FEBRUARY 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIBUV0618 2. Code Class 1
 3. Item Description SI LINE TO RC LOOP 2A DRAIN VALVE
 4. N-5 Package Number 3RC01-3 5. W.O. Number 2362234
 6. Original Construction Code Edition ASME SECT. III, CL 1 1974 EDITION S'75 ADD
 7. Original Installation Code Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 8. Work Description REPLACE THE PACKING LEAKOFF PIPING WITH A PIPE CAP AS REQUIRED BY
13-PN-204.

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.
Minor change due to new type of packing RPT 7/2/01

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
 12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 1 1974 EDITION W'75 ADD
 14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD

15. Preservice Inspection Required. ☐ YES ☒ NO
JD 06/29/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
JD 06/29/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JD 06/29/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
JD 06/29/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
CAP	CP0.5	N/A	149ZNA	553/02

19. Planner [Signature] 6-29-01 Print Name JAMES I. DAVIS
Signature Date
 20. ISI Engineer [Signature] 7-2-01 Print Name R. P. INDAP
Signature Date
 21. ANII [Signature] 7-2-01 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10-17-01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2362234
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sec III, Cl. 1, 1974 Edition, S'75 Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components.

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	FISHER	6540516	5083	3JSIBUV0618	1979	Repaired	Yes
PIPE CAP	N/A	N/A	N/A	3JSIBUV0618	2001	Replacement	No

7. Description of Work REPLACE THE VALVE LEAKOFF PIPING AS REQUIRED BY 13-PN-204

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

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

FORM NIS-2 (Back)

9. Remarks Work Order 2362234 replaced the valve leakoff piping as required by PVNGS specification
13-PN-204

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed [Signature]

ISI ENGINEER

Date 10-17-01

Owner or Owner's Designee Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 7-2-01 to 10-17-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions

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

Date OCTOBER 17, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHBUV0515 2. Code Class ASME SECT III CLASS 1
3. Item Description 2" PLUG VALVE
4. N-5 Package Number 3RC01-1 5. W.O. Number 2365426
6. Original Construction Code Edition 1974 EDITION SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description DURING REPACK OF VALVE THE LEAK OFF LINE WILL BE PLUGGED WITH A CODE WELD.
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 FLAW HAS BEEN DETECTED & NO FAILURE IS INVOLVED

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SEC. III CL. 1/74 ED. SUMMER '75 ADD.
13. Repair/Replacement Activity Construction Code/Edition SEC. III CL. 1/74 ED. WINTER '75 ADD.
14. ASME Section XI Code/Edition 1992 EDIITON, 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
18. Include a step in the W.O. to record below all applicable numbers for repaired or replace³ *² items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JCHBUV0515	N/A	(VALVE) 6540521	N/A	N/A
LEAK OFF PLUG	APN# 43550610	N/A	1492NA	00583275-0001

19. Planner Jaboulanger 10/05/2001 Print Name JAMES G. BOULANGER
20. ISI Engineer R-L-Browning 10/5/01 Print Name R-L-BROWNING
21. ANII Bob Hogstrom 10-5-01 Print Name BOB HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/05/01
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 WO# 2365426
Address Repair Organization P.O. No., Job No., etc.
3. Work Performed by APS Type Code Symbol Stamp None
Name Authorization No. N/A
5801 S. Wintersburg Rd. Tonopah, Arizona 85354-7529 Expiration Date N/A
Address
4. Identification of System CH, Chemical Volume Control System, Sec III CL 1
5. (a) Applicable Construction Code Sec. III Cl 1 1974 Edition, '75 W Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Seal leak off line plug.	N/A	N/A	N/A	3JCHBUV0515	1979	Replacement	No

7. Description of Work Repack of valve allowed for seal leak off line plug installation.
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks LEAK OFF LINE PLUG INSTALLED

WO# 2365426

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed

[Signature]

ISI ENGINEER

Owner or Owner's Designee, Title

Date 10-13-01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-5-01 to 10-13-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]

Inspector's Signature

Commissions

NS 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSIEPSV0231 2. Code Class 2
3. Item Description SIT 1A PRESSURE RELIEF VALVE
4. N-5 Package Number 3SI02-3 5. W.O. Number 2374694
6. Original Construction Code Edition ASME SECT. III, CL 2 1974 EDITION S'76 ADD
7. Original Installation Code Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
8. Work Description REPLACE THE SPRING ADJUSTING BOLT DUE TO TO GALLING.

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.

New bolt to replace galled bolt.

11. Repair/Replacement Work Organization ARIZONA PUBLIC SERVICE
12. Replacement Item Construction or reconciled Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD ^{RPZ 5, 76 10-19-01}
13. Repair/Replacement Activity Construction Code/Edition ASME SECT. III, CL 2 1974 EDITION W'75 ADD
14. ASME Section XI Code/Edition ASME SECT. III, CL 1 1992 EDITION 92 ADD ^{RPZ 10-22-01}

15. Preservice Inspection Required. ☐ YES ☒ NO
N/A Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
N/A Initial N/A Date If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
JD Initial 10/19/01 Date
18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
JD Initial 10/19/01 Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADJUSTING BOLT	N88753	73-0216	N/A	MR 587965

19. Planner [Signature] 10-19-01 Date Print Name JAMES I. DAVIS
20. ISI Engineer [Signature] 10-19-01 Date Print Name R. P. INDAP
21. ANII ANII Notified. Released for replacement work. 10-22-01 Date Print Name R. C. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/19/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2374694
Address Work Order Number

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

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

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

4. Identification of System Safety Injection

5. (a) Applicable Construction Code ASME Sec III, CI 2 19 74 Edition, S'76 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
VALVE	CROSBY	N61182-00-0003	N/A	3JSIEPSV0231	1979	Repaired	Yes
ADJUSTING BOLT	CROSBY	73-0216	NA	3JSIEPSV0231	2001	Replacement	No

7. Description of Work REPLACE THE SPRING ADJUSTING BOLT.

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Work Order 2374694 replaced the valve spring adjustment bolt due to galling in the bonnet.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp 11/1

Certificate of Authorization No. 1A

Expiration Date N/A

Signed RUB

Robert Browning SI ENG
Owner or Owner's Designee, Title

Date 10/22/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-22-01 to 10-22-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. Brown
Inspector's Signature

Commissions

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

Date OCTOBER 22, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PCHNV868
2. Code Class ASME SEC. III CL1.
3. Item Description 1" CHECK VALVE
4. N-5 Package Number 3CH14-2
5. W.O. Number 2374882
6. Original Construction Code Edition 1974 EDITION & 1975 WINTER ADD.
7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADD.
8. Work Description BONNET TO BODY SEAL WELD REPLACED DUE TO CHECK VALVE INSPECTION PROGRAM.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Disassembly for inspection. No failure in ASME boundary
RPR 7/27/01
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION & 1975 WINTER ADD.
13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADD.
14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO

JSB 07/19/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

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

JSB 07/19/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

JSB 07/14/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

JSB 07/14/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replaced items.
Initial Date

COMP I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3PCHNV868	N/A	77811	N/A	N/A

9. Planner JSB 07/14/01 Print Name JIM BOULANGER
Signature Date

20. ISI Engineer R. P. Indap 7/14/01 Print Name R. P. INDAP
Signature Date

21. ANII Bob Hogstrom 8-1-01 Print Name BOB HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

- Owner Arizona Public Service Company, et. al. Date 08/15/01
Name
P. O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
- Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2374882
Address Work Order Number
- Work Performed by Arizona Public Service Company, et al. Type Code Symbol Stamp None
Name Authorization No. N/A
P.O. Box 53999, Phoenix, Arizona 85072-2034 Expiration Date N/A
Address
- Identification of System CH, Chemical Volume Control System ASME SEC. III CL 1
- (a) Applicable Construction Code Section III, CL 1 1974 Edition, W'75 Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda
- Identification of Components Repaired or Replaced and Replacement Components

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired, Replaced or Replacement	ASME Code Stamped (Yes or No)
Check Valve	Borg Warner	77811	N/A	3PCHNV868	1982	Replaced	Yes

- Description of Work Replaced the Body to Bonnet Seal Weld for IST inspection
- Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ N-416-1 ☐
 Exempt ☒ Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

WO# 2374882

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed



SR. ISI ENGINEER

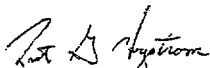
Owner or Owner's Designee, Title

Date 10/9/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-1-01 to 10-9-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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



Inspector's Signature

Commissions

NS 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date

OCTOBER

9

18 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3CH010H0AA 2. Code Class SECTION III Subsection NF Class 3
 3. Item Description 1/4 KIP SNUBBER
 4. N-5 Package Number 3CH14-3 5. W.O. Number 2375349
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
Snubber failed visual, Changed for precautionary measures. This is a like for like replacement

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 10-6-2001 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 10-6-2001 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 10-6-2001 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 10-6-2001 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3CH010H00AA	N/A	35490	N/A	N/A

19. Planner Michael Newell 10-6-2001 Print Name Michael Newell
Signature Date
 20. ISI Engineer WILEY AHLSTEDT 10-9-01 Print Name WILEY AHLSTEDT
Signature Date
 21. ANII Robert Hogstram 10-9-01 Print Name Robert Hogstram
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/06/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 1
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2375349
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S Wintersburg Road, Tonopah Arizona 85354-752 Expiration Date N/A
Address

4. Identification of System "CH" Charging5. (a) Applicable Construction Code Subsect. NF Class 3 19 74 Edition, W'75 Addenda, _____ Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
1/4 Kip Snubber	Pacific Scientific	35490	N/A	3CH010H0AA	1983	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks WO#2375349 Removed snubber Serial number 18138 and replaced it with serial number 35490

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Indag, ISI Engineer Date 10-26-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-9-01 to 10-26-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Indag
Inspector's Signature

Commissions NB 9685 "N" 1 Az-264
National Board, State, Province, and Endorsements

Date OCTOBER 26, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3CH005H020 2. Code Class SECTION III Subsection NF Class 3
 3. Item Description 3 KIP SNUBBER
 4. N-5 Package Number 3CH15-4 5. W.O. Number 2375371
 6. Original Construction Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 8. Work Description Replace Snubber

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
changed for precautionary measures. This is a like for like replacement

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION THRU WINTER 1975 ADDENDA
 14. ASME Section XI Code/Edition 1992 Edition and 1992 Addenda

15. Preservice Inspection Required. ☒ YES ☒ NO 10-8-01
 Initial [Signature] Date 10-8-01 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
 Initial [Signature] Date 10-8-01 If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial [Signature] Date 10-8-01
 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
 Initial [Signature] Date 10-8-01

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3CH005H020	N/A	<u>3511</u>	N/A	N/A
		<u>5511 MOD</u>		

19. Planner [Signature] 10-8-01 Print Name Michael Newell
 Signature Date
 20. ISI Engineer [Signature] 10-9-01 Print Name WILEY HALLSROM
 Signature Date
 21. ANII [Signature] 10-9-01 Print Name Robert Hogstram
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/08/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2375371
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
5801 S. Wintersburg Rd., Tonopah AZ 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System "CH" Charging

5. (a) Applicable Construction Code NF Class 3 19 74 Edition, W '75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
3 Kip Snubber	Pacific Scientific	5511	N/A	3CH005H020	1978	Replacement	Yes

7. Description of Work Snubber Replacement (No Welding)

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

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

FORM NIS-2 (Back)

9. Remarks WO#2375371 Removed snubber Serial number 27159 and replaced it with serial number 5511

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] SR. ISI ENGINEER Date 10/28/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-28-01 to 10-28-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 28, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL032 2. Code Class ASME SECTION III, CLASS 1
3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 PIPING
4. N-5 Package Number 3RC01-2 5. W.O. Number 2390208
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
8. Work Description Perform half nozzle modification of the pressure sampling nozzle line 3PRECL049 located on the RCS Hot LEG and plugging of spare RTD's at locations of 3JRCETW111HD and 3JRCETW111HB.
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.
Modification work directed by engineering requirements specified in DMWO 2390196.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, Cl 1, 1974 Ed. Summer 1974 Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Cl 1, 1974 Ed., Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☐ YES

☒ NO

Initial 8/29/01 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES

☒ NO

Initial 8/29/01 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 8/29/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 8/29/01 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.
3PRCEL049 (Nozzle)	APN 43610094	N/A	131968	400804
3JRCETW111HD	APN 62036	N/A	NX0911HK	571227
(PLUG)	-----	-----	-----	-----
3JRCETW111HB	APN 62036	N/A	NX0911HK	571227
(PLUG)	-----	-----	-----	-----

19. Planner Herbert L. Green 9/14/01 Signature _____ Date _____ Print Name Herbert L. Green
20. ISI Engineer R.P. Indap 9/12/01 Signature _____ Date _____ Print Name R.P. INDAP
21. ANII R.G. Hogstrom 9-14-01 Signature _____ Date _____ Print Name R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/18/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2390208
Address Work Order Number

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

Authorization No. N/A

P.O. Box 53999, Phoenix, Arizona 85072-7529 Expiration Date N/A
Address

4. Identification of System Reactor Coolant System, Line number 3PRCEL032, Spool 001

5. (a) Applicable Construction Code ASME Sec. III, CL-1 19 74 Edition, w'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RC Hot Leg #1	Combustion Eng.	771-301	N/A	3PRCEL032	1982	Repaired	Yes

7. Description of Work Perfrom ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Perform half nozzle modification of the pressure sampling nozzle line 2PRCEL049 located on the
RCS Hot Leg and plugging of spare RTD's at locations of 3JRCETW111HD and
3JRCETW111HB.

W.O. 2390208

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RP Bondap ISI Engineer Date 10-23-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-14-01 to 10-23-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RP Bondap
Inspector's Signature

Commissions NB 4685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL032 2. Code Class ASME SECTION III, CLASS 1
3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 PIPING
4. N-5 Package Number 3RC01-2 5. W.O. Number 2390209
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
8. Work Description Perform Half Nozzle modifications to pressure measurement line 3PRCCL053 AND 3PRCAL055.. Modification of spare RTD's 3JRCETW111HA and 3JRCETW111HC by plugging per the requirements of DMWO 2390196.
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.
Modification work directed by engineering requirements specified in DMWO 2390196.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, CI 1, 1974 Ed. Summer 1974 Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, CI 1, 1974 Ed., Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
HL 8/22/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
HL 8/22/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
HL 8/22/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
HL 8/22/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3PRCCL053 (Nozzle)	APN 43610094	N/A	131968	400804
3PRCAL055 (Nozzle)	APN 43610094	N/A	131968	400804
3JRCETW111HA	APN 62036	N/A	NX0911HK	571227
(PLUG)	-----	-----	-----	-----
3JRCETW111HC	APN 62036	N/A	NX0911HK	571227
(PLUG)	-----	-----	-----	-----

19. Planner Herbert L. Green 8/22/01 Print Name Herbert L. Green
Signature Date

20. ISI Engineer R. P. INDAP 9/12/01 Print Name R. P. INDAP
Signature Date

21. ANII R. G. HOGSTROM 9-14-01 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/18/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2390209
Address Work Order Number
3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
P.O. Box 53999, Phoenix, Arizona 85072-7529 Authorization No. N/A
Address Expiration Date N/A
4. Identification of System Reactor Coolant System, Line number 3PRCEL032, Spool 001
5. (a) Applicable Construction Code ASME Sec. III, CL-1 19 74 Edition, w'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RC Hot Leg #1	Combustion Eng.	771-301	N/A	3PRCEL032	1982	Repaired	Yes

7. Description of Work Perfrom ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification
8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☒ N-416-1 ☐
 Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Perform half nozzle modifications of the pressure measurement nozzles located on the RCS Hot Leg upstream of root valves 3PRCAV277 and 3PRCCV273 and plugging of spare RTD's at locations of 3JRCETW111HA and 3JRCETW111HC.

W.O. 2390209

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. J. Ford, ISI Engineer Date 10-23-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-14-01 to 10-23-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. J. Ford

Inspector's Signature

Commissions NB 9685 "N" "I" Az. 264

National Board, State, Province, and Endorsements

Date OCTOBER 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL063 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 PIPING
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2390212
 6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974 EDITION SUMMER 1974 ADDENDA
 7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974 EDITION WINTER 1975 ADDENDA
 8. Work Description Perform modifications of spare RTD's 3JRCETW121HD and 3JRCETW121HB by plugging per the requirements of DMWO 2390196

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.
Modification work directed by engineering requirements specified in DMWO 2390196

11. Repair/Replacement Work Organization Arizona Public Service Co.
 12. Replacement Item Construction or reconciled Code/Edition ASME III, Class 1 1974 Edition Summer '74 Addenda
 13. Repair/Replacement Activity Construction Code/Edition ASME III, Class 1 1974 Edition Winter '75 Addenda
 14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required. ☐ YES ☒ NO
ASL 09/18/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
ASL 09/18/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
ASL 09/18/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
ASL 09/18/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCETW121HD (PLUG)	APN 62036	N/A	NX0911HK	571236-0001
3JRCETW121HB (PLUG)	APN 62036	N/A	NX0911HK	571236-0001

19. Planner Glenn E. Moore 09/18/01 Print Name Glenn E. Moore
 Signature Date
 20. ISI Engineer Ramakant P. Indap 09/18/01 Print Name Ramakant P. Indap
 Signature Date
 21. ANII Robert G. Hogstrom 09/18/01 Print Name Robert G. Hogstrom
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/18/01

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529
Address

2390212
Work Order Number

3. Work Performed by Arizona Public Service
Name

Type Code Symbol Stamp None

Authorization No. N/A

P.O. Box 53999, Phoenix, Arizona 85072-7529
Address

Expiration Date N/A

4. Identification of System Reactor Coolant System, Line number 3PRCEL063, Spool 001

5. (a) Applicable Construction Code ASME Sec. III, CL - 1 19 74 Edition, w'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RC Hot Leg #2	Combustion Eng.	771-501	N/A	3PRCEL063	1982	Repaired	Yes.

7. Description of Work Perform ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Plug spare RTD nozzles located on the RCS Hot Leg at locations of 3JRCETW121HD and 3JRCETW121HB.

W.O. 2390212

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. Fordap, ISI Engineer Date 10-23-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-18-01 to 10-23-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Fordap
Inspector's Signature

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

Date OCTOBER 23 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEL063 2. Code Class ASME SECTION III, CLASS 1
3. Item Description REACTOR VESSEL TO STEAM GENERATOR #1 PIPING
4. N-5 Package Number 3RC01-2 5. W.O. Number 2390215
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, SUMMER 1974 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
8. Work Description Perform Half Nozzle modifications to pressure measurement line 3PRCCL065 AND 3PRCAL066.. Modification of spare RTD's 3JRCETW121HA and 3JRCETW121HC by plugging per the requirements of DMWO 2390196.
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.
Modification work directed by engineering requirements specified in DMWO 2390196.
11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, Cl 1, 1974 Ed. Summer 1974 Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, Cl 1, 1974 Ed., Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

☐ YES ☒ NO

Initial 8/25/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☐ YES ☒ NO

Initial 8/25/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 8/25/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 8/25/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3PRCCL065 (Nozzle)	APN 43610094	N/A	131968	400804
3PRCAL066 (Nozzle)	APN 43610094	N/A	131968	400804
3JRCETW121HA	APN 62036	N/A	NX0911HK	571212
(PLUG)				
3JRCETW121HC	APN 62036	N/A	NX0911HK	571212
(PLUG)				

19. Planner

Signature
8/25/01
Date

Print Name Herbert L. Green

20. ISI Engineer

Signature
9/12/01
Date

Print Name R. P. INDAP

21. ANII

Signature
9-14-01
Date

Print Name R.G. HOLSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 09/18/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2390215
Address Work Order Number

3. Work Performed by Arizona Public Service Type Code Symbol Stamp None
Name
P.O. Box 53999, Phoenix, Arizona 85072-7529 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System Reactor Coolant System, Line number 3PRCEL063, Spool 001

5. (a) Applicable Construction Code ASME Sec. III, CL - 1 19 74 Edition, w'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
RC Hot Leg #2	Combustion Eng.	771-501	N/A	3PRCEL063	1982	Repaired	Yes

7. Description of Work Perform ASME Sec. III, Class 1 welds for DMWO 2390196 nozzle modification

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

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

FORM NIS-2 (Back)

9. Remarks Perform half nozzle modification of the pressure measurement nozzles located on the RCS Hot Leg upstream of root valves 3PRCAV285 and 3PRCCV281, and plugging of spare RTD's at locations of 3JRCETW121HA and 3JRCETW121HC.

W.O. 2390215

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Indap, ISI ENGINEER Date 10-23-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 9-14-01 to 10-23-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Indap
Inspector's Signature

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

Date OCTOBER 23, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP ADAPTER SEAL HOUSING (TOP HAT)
 4. N-5 Package Number 3RC02-6 5. W.O. Number 2393756
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING AS DEFINED AND DISCUSSED IN DFWO#859860 AND CRDR 380359.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
N.A. (MODIFICATION AND REPLACEMENT IS NOT DUE TO FAILURE OF PRESSURE RETAINING BOUNDARY).

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 06/13/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

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

Initial 06/13/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.

Initial 06/13/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

Initial 06/13/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
ADAPTER SEAL HS.	8000-307-001	C001	N/A	N/A

19. Planner Michael B. Newell Signature 6-13-01 Date Print Name MICHAEL B. NEWELL

20. ISI Engineer Alan Morrison Signature 6-14-01 Date Print Name Alan Morrison

21. ANII Robert Hogstrom Signature 6-14-01 Date Print Name ROBERT HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 06/13/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2393756
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH ARIZONA Authorization No. N/A
Address Expiration Date N/A
4. Identification of System RC, ASME SECTION III, CLASS 1
5. (a) Applicable Construction Code SEC III, CLASS 1 19 74 Edition, N/A Addenda, N/A Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL	SULZERBINGHAM	SN-C001	N/A	3MRCEP01D	1984	Repaired	No
HOUSING							

7. Description of Work MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING.

8. Test Conducted: Hydrostatic ☒ Pneumatic ☐ Nominal Operating Pressure ☐ Exempt ☐ N-416-1 ☐
 Other ☐ Pressure 3125+50/- psi Test Temp. 60 - 90 °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 2393756 3MRCEP01D MODIFY ADAPTER SEAL HOUSING (TOP HAT) BY
WELDING AND MACHINING.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed [Signature] ISF Engineer Date 10-29-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-14-01 to 10-29-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

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

Date OCTOBER 29, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01D 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP 2B 10-29-01
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.2393758
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REPLACE SEAL HOUSING ADAPTER (TOP HAT) THAT WAS MODIFY BY
WELDING/MACHINING UNDER WO#2393758
10-29-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
N.A. (MODIFICATION AND REPLACEMENT IS NOT DUE TO FAILURE OF PRESSURE RETAINING
BOUNDARY).

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required ☐ YES ☒ NO
MSW 08/05/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MSW 08/05/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date

MSW 08/05/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
MSW 08/05/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MRCEP01D	8000-307-001	C001		N/A

19. Planner Michael B. Newell 9-5-01 Print Name MICHAEL B. NEWELL
 Signature Date
 20. ISI Engineer R.L. Browning 8/9/01 Print Name R.L. BROWNING
 Signature Date
 21. ANII R.G. Hogstrom 8-9-01 Print Name R.G. HOGSTROM
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/05/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 W.O.2393758
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH AZ 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)
5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL	SULZERBINGHAM	SN-C001	N/A	3MRCEP01D	1984	Repaired	Yes
HOUSING							

7. Description of Work MODIFY ADAPTER SEAL HOUSING BY WELDING AND MACHINING.

8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐
Other ☐ Pressure 2250 psi Test Temp. 565 °F

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

FORM NIS-2 (Back)

9. Remarks W.O.2393758 ADAPTER SEAL HOUSING (TOP HAT) 3MRCEP01D.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Monow ISI Engineer Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-9-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0200 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393984
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2393984. RLB 11/2/01 by 11-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08615, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.

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

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 06/25/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBN 06/25/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCEPSV0200	APN#45003560	BS08615	N/A	587750
PIPE CAP	APN#43550865	N/A	N/A	N/A RLB 11/2/01 by 11-2-01

19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date

20. ISI Engineer R. P. Indap 6-28-01 Print Name R. P. INDAP
Signature Date

21. ANII L. G. Hogstrom 6-28-01 Print Name L. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2393984
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH, AZ 85354 Expiration Date N/A
Address
4. Identification of System REACTOR COOLANT SYSTEM (RC)
5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, W'75 Addenda, _____ Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PRESSURIZER PSV	DRESSER	BS08615	N/A	3JRCEPSV200	1981	Replacement	Yes

7. Description of Work REPLACED VALVE

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

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

FORM NIS-2 (Back)

9. Remarks W.O. 2393984. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE
REPLACEMENT VALVE IS SERIAL NUMBER BS08615.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R.L. BROWNING RLB ISI Eng Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-28-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Browning
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0201 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393997
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2393997.. RLB 11-2-01

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08591, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA

13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.

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

15. Preservice Inspection Required. ☐ YES ☒ NO
 MBN 06/25/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
 MBN 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 MBN 06/25/01
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
 MBN 06/25/01
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCEPSV0201	APN#45003560	BS08591	N/A	587753
PIPE CAP	APN#43550865	N/A		

19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. G. Hogstrom 6-28-01 Print Name R. G. Hogstrom
Signature Date
 21. ANII R. G. Hogstrom 6-28-01 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2393997
Address Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
5801 S. WINTERSBURG RD. TONOPAH, AZ 85354 Authorization No. N/A
Address Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, W'75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PRESSURIZER PSV	DRESSER	BS08591	N/A	3JRCEPSV201	1979	Replacement	Yes

7. Description of Work REPLACED VALVE

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 2393997. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE
REPLACEMENT VALVE IS SERIAL NUMBER BS08591.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed R.L. BROCKWELL

RLB 151 ENG
Owner or Owner's Designee, Title

Date 11/2/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-28-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Brockwell
Inspector's Signature

Commissions

NB 9685 "2" "1" Az. 264

National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0202 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2393998
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2393998 *REP* *11-2-01*

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08617, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 06/25/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCEPSV0202	APN#45003560	BS08617	N/A	<i>587754</i>
PIPE CAP	APN#43550865	N/A	<i>11-2-01</i>	

19. Planner *Michael B. Newell* 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer *R.P. Indap* 6-28-01 Print Name R. P. INDAP
Signature Date
 21. ANII *R.G. Hogstrom* 6-28-01 Print Name R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2393998
Address Work Order Number
3. Work Performed by ARIZONA PUBLIC SERVICE Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. WINTERSBURG RD. TONOPAH, AZ 85354 Expiration Date N/A
Address

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, W'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PRESSURIZER PSV	DRESSER	BS08617	N/A	3JRCEPSV202	1981	Replacement	Yes

7. Description of Work REPLACED VALVE

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

Other ☐ Pressure psi Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 2393998. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE
REPLACEMENT VALVE IS SERIAL NUMBER BS08617.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed RL BACCHINI RLB ISI ENG
Owner or Owner's Designee, Title

Date 11/2/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-28-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RL BACCHINI
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2394003
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description REPLACE VALVE AND TRIM/WELD PIPE NIPPLE TO PIPE CAP PER WORK ORDER
2394003... RLB "6/20/01" by "6-28-01"

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS08593, REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA.
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 06/25/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
MBN 06/25/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
MBN 06/25/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 06/25/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCEPSV0203	APN#45003560	BS08593	N/A	587755
- PIPE CAP	APN#43550865	N/A <u>RLB "6/20/01" by "6-28-01"</u>		

19. Planner Michael B. Newell 06/25/01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R. P. Indap 6-28-01 Print Name R. P. INDAP
Signature Date
 21. ANII R. G. Hostrom 6-28-01 Print Name R. G. Hostrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/30/01

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529
Address

2394003
Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE
Name

Type Code Symbol Stamp None

Authorization No. N/A

5801 S. WINTERSBURG RD. TONOPAH, AZ 85354
Address

Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, W'75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PRESSURIZER PSV	DRESSER	BS08593	N/A	3JRCEPSV203	1979	Replacement	Yes

7. Description of Work REPLACED VALVE

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

Other ☐

Pressure psi

Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O. 2394003. VALVE IS BEING ROTATED TO FACILITATE TESTING. THE
REPLACEMENT VALVE IS SERIAL NUMBER BS08593

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed RL BROCKWINE

RLB ISI ENG
Owner or Owner's Designee, Title

Date 11/2/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 6-28-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Paul D. Lytton
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08629 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2394106
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition 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 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
S/N - BS08629				
DISC		<u>AB609 ADG09</u>	<u>68787</u>	<u>PL # 0506998</u>

19. Planner David M. Goodlet 8-28-01 Print Name David Goodlet
Signature Date
 20. ISI Engineer Ramakant Indap 8-28-01 Print Name Ramakant Indap
Signature Date
 21. ANII Robert Hogstrom 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name

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

2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name

Authorization No. N/A

Expiration Date N/A

Address

4. Identification of System SG - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	ADG09	N/A	N/A	2001	Replacement	No

7. Description of Work Overhaul of spare Main Steam safety valve S/N BS-08629

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed R. Phindap, Consulting Metallurgical Engineer Date 10-18-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-28-01 to 10-18-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. L. Phindap Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BS 08636 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1315 PSIG
4. N-5 Package Number 3SG01-2 5. W.O. Number 2394106
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition 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 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
S/N - BS08636				
DISC	AASF ^{AB} _{1011A}	AAS ADG08	68787	PL# 0506998
SPINDLE			91299	REMOVED FROM BS-08610
SPRING & WASHER		AAC 89		REMOVED FROM BS-08587

19. Planner David Goodlet 8-28-01 Print Name David Goodlet
Signature Date
20. ISI Engineer Ramakant Indap 8-28-01 Print Name Ramakant Indap
Signature Date
21. ANII Robert Hogstrom 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
 Expiration Date N/A

4. Identification of System SG - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	ADG08	N/A		2001	Replacement	No
SPINDLE	DRESSER	N/A	N/A	HT-G1299	2001	Replacement	No
				Removed from			
				BS-08610			
Spring & Washers	DRESSER	AAC89	N/A	Removed from	2001	Replacement	No
				BS-08587			

7. Description of Work Overhaul of spare Main Steam safety valve BS-08636.

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

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

FORM NIS-2 (Back)

9. Remarks Work Order #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Inda, Consulting Metallurgical Engineer Date 10-18-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-28-01 to 10-18-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Inda Commissions NB 9685 "N" "I" Az. 264
(Inspector's Signature) National Board, State, Province, and Endorsements

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BT 01675 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1250 PSIG
 4. N-5 Package Number _____ 5. W.O. Number 2394106
 6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.

11. Repair/Replacement Work Organization NWS Technologies
 12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition 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 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
 16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
S/N - BT 01675				
DISC		ADG10		PL# 0506998

19. Planner David M. Goodlet 8-28-01 Print Name David Goodlet
Signature Date
 20. ISI Engineer Ramakant Indap 8-28-01 Print Name Ramakant Indap
Signature Date
 21. ANII Robert Hogstrom 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number

3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Address Authorization No. N/A
Expiration Date N/A

4. Identification of System SG - MAIN STEAM

5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	ADG010	N/A	N/A	2001	Replacement	No

7. Description of Work Overhaul of spare Main Steam safety valve S/N BT01675

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

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

FORM NIS-2 (Back)

9. Remarks Work Order #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed R. P. Forday, Consulting Metallurgical Engineer Date 10-18-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-28-01 to 10-18-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Forday Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements
Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID S/N - BY 14540 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER - 3707RA-RT25 ; 1290 PSIG
4. N-5 Package Number _____ 5. W.O. Number 2394106
6. Original Construction Code Edition 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Maintenance overhaul of safety valve. Code part replacement from spare valves or from approved purchased spare parts based upon inspection results.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME Sec. III boundary. The Disc replacement is to enhance performance.
11. Repair/Replacement Work Organization NWS Technologies
12. Replacement Item Construction or reconciled Code/Edition ASME III, CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition 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 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII inspection.
Initial Date
DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
S/N - BY 14540				
DISC		ADG07		PL # 0506998
SAND LE		A19374 AB 10/1/01	A19374	PO # 33207018

19. Planner David Goodlet 8-28-01 Print Name David Goodlet
Signature Date

20. ISI Engineer Ramakant Indap 8-28-01 Print Name Ramakant Indap
Signature Date

21. ANII Robert Hogstrom 8-28-01 Print Name Robert Hogstrom
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/27/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit N/A
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394106
Address Work Order Number
3. Work Performed by NWS Technologies Type Code Symbol Stamp None
Name
Authorization No. N/A
Expiration Date N/A
Address
4. Identification of System SG - MAIN STEAM
5. (a) Applicable Construction Code ASME III CLASS 2 19 74 Edition, S'75 Addenda, 1711 Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
DISC	DRESSER	ADG07	N/A	N/A	2001	Replacement	No
SPINDLE	DRESSER	N/A	N/A	HT: A19374	2001	Replacement	No

7. Description of Work Overhaul of spare Main Steam safety valve S/N BY-14540

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

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

FORM NIS-2 (Back)

9. Remarks Work Order #2394106 for disassembly, inspection and reconditioning of spare Main Steam safety valve. A new designed Disc will be installed to enhance performance. Other parts will be replaced as needed based upon inspection. These parts will be obtained from other spare valves or from approved purchased spare parts.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. P. Pindap, Consulting Metallurgical Engineer Date 10-18-01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-28-01 to 10-18-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. P. Pindap

Inspector's Signature

Commissions NB 9685 "N" "I" Az 264

National Board, State, Province, and Endorsements

Date OCTOBER 18, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JRCEPSV0203 2. Code Class 1
 3. Item Description PRESSURIZER SAFETY RELIEF VALVE
 4. N-5 Package Number 3RC03-3 5. W.O. Number W.O.2394112
 6. Original Construction Code Edition 1974 EDITION '75 SUMMER ADDENDA
 7. Original Installation Code Edition 1974 EDITION WINTER '75 ADDENDA
 8. Work Description OFF-SITE VENDOR TESTING AND REWORK PER WORK ORDER 2394112.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
THE VALVE BEING ROTATED TO FACILITATE TESTING. THE REPLACEMENT VALVE IS
SN#BS-08593. REPLACEMENTS ARE PART OF ROUTINE MAINTENANCE.

11. Repair/Replacement Work Organization NWS TECHNOLOGY
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION '75 SUMMER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION WINTER '75 ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 08/28/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 08/28/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 08/28/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date

MBN 08/28/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JRCEPSV0203	N/A	BS-08593		
NOZZLE	NA	ABC-62		903645076

19. Planner Michael B. Newell 8-28-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer R.P. Indap 8/28/01 Print Name R.P. INDAP
Signature Date
 21. ANII R.G. Hogstrom 8-28-01 Print Name R.G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 08/28/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address

2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2394112
Address Work Order Number

3. Work Performed by NWS Technology Type Code Symbol Stamp None
Name
131 Venture Blvd., Spartanburg, SC Authorization No. N/A
Address Expiration Date N/A

4. Identification of System RC

5. (a) Applicable Construction Code ASME III Class 1 19 74 Edition, S '75 Addenda, Code Case
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
PSV	Dresser	BS08593	N/A	3JRCEPSV203	1978	Repaired	Yes
Nozzle	Dresser	ABC-62	N/A	3JRCEPSV203	2001	Replacement	No

7. Description of Work Off-site vendor testing.

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

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

FORM NIS-2 (Back)

9. Remarks W.O. 2394112

Valve sent to vendor for off-site testing. Replaced nozzle.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R. Fordap, ISI Engineer Date 10-29-2001
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 8-28-01 to 10-29-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R. A. Fordap Commissions NB 9685 "N" "I" AZ 264
Inspector's Signature National Board, State, Province, and Endorsements

Date OCTOBER 29, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEP01B 2. Code Class ASME SECTION III CLASS 1
 3. Item Description REACTOR COOLANT PUMP 1B
 4. N-5 Package Number 3RC02-6 5. W.O. Number W.O.2394135
 6. Original Construction Code Edition 1974 EDITION
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description REWORK SEAL HOUSING ADAPTER (TOP HAT) LOWER LIP DUE TO O-RING LEAKAGE. (Machine to obtain better fit) RPE 7/10/01

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.
ENG-DIDF WO#2351782. Minor machining to stop leakage. No failure. structural
SRP 7/10/01

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition 1974 EDITION
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
Initial 07/05/01 Date If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
Initial 07/05/01 Date If required, include a step in the W.O. for ISI & ANII Inspection.
Initial 07/05/01 Date 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial 07/05/01 Date 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3MRCEP01B	8000-307-001	095-1956 C011		N/A

19. Planner Michael B. Newell 07/05/01 Signature Date Print Name MICHAEL B. NEWELL
 20. ISI Engineer R.P. Indap 7/10/01 Signature Date Print Name R.P. INDAP
 21. ANII R.G. Hogstrom 7-10-01 Signature Date Print Name R.G. HOGSTROM

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 07/05/01
Name

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

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station
Name

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529
Address

Unit 3

W.O.2394135
Work Order Number

3. Work Performed by ARIZONA PUBLIC SERVICE
Name

Type Code Symbol Stamp None

Authorization No. N/A

5801 S. WINTERSBURG RD. TONOPAH 85354
Address

Expiration Date N/A

4. Identification of System REACTOR COOLANT SYSTEM (RC)

5. (a) Applicable Construction Code ASME III CLASS 1 19 74 Edition, N/A Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
ADAPTER SEAL	CE	CO11	N/A	3MRCEP01B	1984	Repaired	Yes
HOUSING							

7. Description of Work MACHINE SEAL HOUSING ADAPTER (TOP HAT) LOWER LIP.

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

Other ☐

Pressure psi

Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks W.O#2394135 ADAPTER SEAL HOUSING (TOP HAT) 3MRCEP01B.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed RL BROWNING RLB ISI ENCL Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 7-10-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

RL Browning Commissions NB 9685 "N" "I" Az. 264
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHNUV0501 2. Code Class SEC III CL 2
 3. Item Description 4" GATE VALVE
 4. N-5 Package Number 3CH03-3 5. W.O. Number 2400874
 6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
 7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA *Feb 10/10/01*
 8. Work Description REPLACEMENT OF 10 BONNET STUDS AND 20 NUTS DUE TO SURFACE CORROSION APPEARING ON THEM. FOUND DURING REPACK /BODY TO BONNET CORRECTIVE MAINTENANCE WORK ORDER.

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.
Corroded bolts (studs) are low alloy steel and then nickel plated to resist borated water attack. The replacement bolts are nickel plated and provide long corrosion resistance. The nuts are 316 SS and being replaced for added assurance. RPR
Feb 10/10/01 10-9-01

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition SECTION III, CL 2 '74ED.'75 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition SECTION III, CL 2 '74ED.'75 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
 Initial _____ Date 10/09/01 If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
 Initial _____ Date 10/09/01 If required, include a step in the W.O. for ISI & ANII Inspection.

Initial _____ Date 10/09/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial _____ Date 10/09/01 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.
3JCHEUV0501		N/A		MR# 584229
BOLTS & NUTS <i>Feb 10/10/01</i>			<i>NOT REPLACED</i>	
STUDS RPR <i>10-9-01</i>		<i>3P80</i>	<i>3P80 (2)</i>	
		<i>4G84</i>	<i>4G84 (3)</i>	
		<i>3W67</i>	<i>3W67 (5)</i>	

19. Planner *J. Boulanger* 10/09/01 Print Name JAMES G. BOULANGER
 Signature _____ Date _____
 20. ISI Engineer *R.P. Indap* 10-9-01 Print Name R.P. INDAP
 Signature _____ Date _____
 21. ANII *R. Hogstrom* 10-9-01 Print Name ROBERT HOGSTROM
 Signature _____ Date _____

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JCHNUV0501 2. Code Class SEC III CL 2
3. Item Description 4" GATE VALVE
4. N-5 Package Number 3CH03-3 5. W.O. Number 2400874
6. Original Construction Code Edition 1974 EDITION, WINTER 1975 ADDENDA
7. Original Installation Code Edition 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description REPLACEMENT OF 10 BONNET STUDS DUE TO SURFACE CORROSION APPEARING ON THEM. FOUND DURING REPACK /BODY TO BONNET CORRECTIVE MAINTENANCE WORK ORDER.
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.

11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition SECTION III, CL 2 /'74ED.'75 WINTER ADDENDA
13. Repair/Replacement Activity Construction Code/Edition SECTION III, CL 2 /'74ED.'75 WINTER ADDENDA
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
If required, include a step in the W.O. for ISI & ANII Inspection.

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
10 BONNET STUDS		N/A	3P80 (2 EA.)	MR# 584229
			4G84 (3EA.)	"
			3W67 (5 EA.)	"

19. Planner [Signature] 10/09/01 Print Name JAMES G. BOULANGER
Signature Date
20. ISI Engineer Alan Morrow 10/13/01 Print Name Alan Morrow
Signature Date
21. ANII [Signature] 10-13-01 Print Name ROBERT HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/09/01
Name
P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Address
2. Plant Palo Verde Nuclear Generating Station Unit 3
Name
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2400874
Address Work Order Number
3. Work Performed by Arizona Public Service Company, et. al. Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Expiration Date N/A
Address
4. Identification of System CVCS - CH - Sec. III Cl. 2 - Chemical & Volume Control System
5. (a) Applicable Construction Code Section III Cl.2 19 74 Edition, W'75 Addenda, N/A Code Case
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda
6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
4"gt vlv bonnet bolts	N/A	N/A	N/A	3JCHNUV0501	2001	Replacement	No

7. Description of Work Disassembled to correct bonnet leak and repack valve-replaced 10 bonnet studs

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

Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks N/A

WO# 22400874

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

Certificate of Authorization No. N/A

Expiration Date N/A

Signed Alan Monow ISI ENG.
Owner or Owner's Designee, Title

Date 10/13/01

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-9-01 to 10-13-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature]
Inspector's Signature

Commissions NB 2685 "N" "I" Az. 264
National Board, State, Province, and Endorsements

Date OCTOBER 13, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0560 2. Code Class ASME III, CLASS 2
3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1290 PSIG
4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.
9. ☐ ISI Flaw NDE Method of Flaw Detection _____
Report Number _____
10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.
11. Repair/Replacement Work Organization APS
12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75 ADD.
13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA
15. Preservice Inspection Required. ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date
16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
- DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
- DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.
Initial Date

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JSGEPSV0560	N/A	BY-14540	N/A	60584542-0001

19. Planner *David Goodlet* 8-27-01 Print Name DAVID GOODLET
Signature Date
20. ISI Engineer *Ramakant Indap* 8-28-01 Print Name RAMAKANT INDAP
Signature Date
21. ANII *Robert Hogstrom* 8-28-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0561 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1250 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
DMG 10/02/01 If required, include a step in the W.O. to perform Preservice Inspection.
 Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
DMG 10/02/01 If required, include a step in the W.O. for ISI & ANII Inspection.
 Initial Date
DMG 10/02/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
 Initial Date
DMG 10/02/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
 Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JSGEPSV0561	N/A	BT-01675	N/A	00504543-0001

19. Planner David Goodlet 10-2-01 Print Name DAVID GOODLET
 Signature Date
 20. ISI Engineer Ramakant Indap 10-2-01 Print Name RAMAKANT INDAP
 Signature Date
 21. ANII Robert Hogstrom 10-4-01 Print Name ROBERT HOGSTROM
 Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0575 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
 4. N-5 Package Number 3SG01-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization APS
 12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75 ADD.
 13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.
 14. ASME Section XI Code/Edition 1992 EDITION AND 1992 ADDENDA

15. Preservice Inspection Required. ☐ YES ☒ NO
DMG 08/27/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☒ YES ☐ NO
DMG 08/27/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date
DMG 08/27/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
DMG 08/27/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3JSGEPSV0575	N/A	BS-08636	N/A	DD 584961-0001

19. Planner David M. Goodlet 8-27-01 Print Name DAVID GOODLET
Signature Date
 20. ISI Engineer Ramakant Indap 8-28-01 Print Name RAMAKANT INDAP
Signature Date
 21. ANII Robert Hogstrom 8-28-01 Print Name ROBERT HOGSTROM
Signature Date

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3JSGEPSV0695 2. Code Class ASME III, CLASS 2
 3. Item Description MAIN STEAM SAFETY VALVE; DRESSER 3707RA-RT25; 1315 PSIG
 4. N-5 Package Number 3SG02-2 5. W.O. Number 2409610
 6. Original Construction Code Edition ASME III CLASS 2, 1974 EDITION, SUMMER 1975 ADDENDA
 7. Original Installation Code Edition ASME III CLASS 2, 1974 EDITION, WINTER 1975 ADDENDA
 8. Work Description Replacement of main steam safety valve, with reconditioned spare, per Engineering direction following on-line pressure testing.

9. ☐ ISI Flaw

NDE Method of Flaw Detection _____

Report Number _____

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.

No failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon pressure testing.

11. Repair/Replacement Work Organization APS

12. Replacement Item Construction or reconciled Code/Edition ASME III CLASS 2, 1974 ED., S'75 ADD.

13. Repair/Replacement Activity Construction Code/Edition ASME III CLASS 2, 1974 ED., W'75 ADD.

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

15. Preservice Inspection Required.

☐ YES

☒ NO

DMG 10/02/01
Initial Date

If required, include a step in the W.O. to perform Preservice Inspection.

16. ASME Section XI Pressure Test Required

☒ YES

☐ NO

DMG 10/02/01
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

DMG 10/02/01
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

DMG 10/02/01
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/RES NO.
3JSGEPSV0695	N/A	BS-08629	N/A	00 584962-1001

19. Planner David Goodlet 10-2-01 Print Name DAVID GOODLET
 Signature Date
 20. ISI Engineer Robert Hogstrom 10-2-01 Print Name RAMAKANT INDAP
 Signature Date
 21. ANII Robert Hogstrom 10-4-01 Print Name ROBERT HOGSTROM
 Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/02/01P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2
Name
Address2. Plant Palo Verde Nuclear Generating Station Unit 3
5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2409610
Name
Address Work Order Number3. Work Performed by PVNGS Maintenance Dept. Type Code Symbol Stamp None
Name
Authorization No. N/A
5801 S. Wintersburg Rd., TONOPAH, Az. 85354-7529 Expiration Date N/A
Address4. Identification of System SG - Main Steam5. (a) Applicable Construction Code ASME III Class 2 19 74 Edition, S'75 Addenda, 1711 Code Case(b) Applicable Edition of Section XI Utilized for Repairs or Replacements 19 92 Edition, 1992 Addenda

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Safety Valve	Dresser	BS-08636	N/A	3JSGEPSV575	1981	Replacement	Yes
Safety Valve	Dresser	BS-08629	N/A	3JSGEPSV695	1981	Replacement	Yes
Safety Valve	Dresser	BY-14540	N/A	3JSGEPSV560	1991	Replacement	Yes
Safety Valve	Dresser	BT-01675	N/A	3JSGEPSV561	1979	Replacement	Yes

7. Description of Work Replace main steam safety valves with reconditioned spares.8. Test Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒ Exempt ☐ N-416-1 ☐Other ☐ Pressure _____ psi Test Temp. _____ °F

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

FORM NIS-2 (Back)

9. Remarks Work Order #2409610 for the replacement of main steam safety valves 3JSGEPSV0560, 695, 575 & 561. These four valves were selected by maintenance engineering following on-line set pressure testing.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed Alan Monow ISI Engineer Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-4-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

[Signature] Commissions NB 9685 "N" "I" A2 264
Inspector's Signature National Board, State, Province, and Endorsements

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3PRCEV334 2. Code Class ASME SECTION III, CLASS 1
3. Item Description Reactor Coolant System, line 3PRCEL060, drain valve 3PRCEV334
4. N-5 Package Number 3RC01-2 5. W.O. Number 2413348
6. Original Construction Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
7. Original Installation Code Edition ASME SECTION III, CLASS 1, 1974, WINTER 1975 ADDENDA
8. Work Description Replace valve 3PRCEV334 with a refurbished spare valve (1PRCEV216) in accordance with DFWO 2413346. Valve was refurbished by work order 2413347. This valve is being installed in accordance with work order number 2413348.

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

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
The valve is being replaced because it is leaking by the seat. There is no failure in the ASME pressure boundary.

11. Repair/Replacement Work Organization Arizona Public Service
12. Replacement Item Construction or reconciled Code/Edition ASME Sec. III, CI 1, 1974 Ed. Winter 1975 Addenda
13. Repair/Replacement Activity Construction Code/Edition ASME Sec. III, CI 1, 1974 Ed., Winter 1975 Addenda
14. ASME Section XI Code/Edition 1992 Edition, 1992 Addenda

15. Preservice Inspection Required.

[Signature] 10/3/01
Initial Date

If required, include a step in the W.O. to perform Preservice Inspection.

☒ YES ☒ NO R. BROWN
1514206
10/4/01
by [Signature]

16. ASME Section XI Pressure Test Required

[Signature] 10/3/01
Initial Date

If required, include a step in the W.O. for ISI & ANII Inspection.

☒ YES ☐ NO

[Signature] 10/3/01
Initial Date

17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.

[Signature] 10/3/01
Initial Date

18. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
3PRCEV334	N/A	31640	N/A	DFWO 2413346

19. Planner [Signature] 10/03/01 Print Name Herbert L. Green
Signature Date
20. ISI Engineer [Signature] 10-3-01 Print Name R. P. INDAP
Signature Date
21. ANII [Signature] 10-4-01 Print Name R. G. HOGSTROM
Signature Date

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

As Required by the Provisions of the ASME Code Section XI

1. Owner Arizona Public Service Company, et. al. Date 10/03/01

P.O. Box 53999, Phoenix, Arizona 85072-2034

Name
Address

Sheet 1 of 2

2. Plant Palo Verde Nuclear Generating Station

Name

Unit 3

5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529

Address

2413348

Work Order Number

3. Work Performed by Arizona Public Service Co.

Name

Type Code Symbol Stamp None

Authorization No. N/A

5801 S. Wintersburg Rd., Tonopah, Az. 85354

Address

Expiration Date N/A

4. Identification of System Reactor Coolant

5. (a) Applicable Construction Code ASME III Class 1 19 74 Edition, W '75 Addenda, Code Case

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Borg-Warner	31640	N/A	3PRCEV334	1978	Replacement	Yes

7. Description of Work Replace valve 3PRCEV334 with a refurbished spare IAW DFWO 2413346

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

Other ☐

Pressure psi

Test Temp. °F

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

FORM NIS-2 (Back)

9. Remarks Replace valve 3PRCEV334 with a refurbished spare valve (1PRCEV216) in accordance with DFWO 2413346. Valve was refurbished by work order 2413347. This valve is being installed in accordance with work order number 2413348.

CERTIFICATE OF COMPLIANCE

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

Type Code Symbol Stamp N/A

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

Signed R.L. PROCTOR R.L. PROCTOR IS/ENG Date 11/2/01
Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSBI & I CO. of Hartford, Connecticut, have inspected the components described in this Owner's Report during the period 10-4-01 to 11-2-01, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

R.L. Proctor
Inspector's Signature

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

Date NOVEMBER 2, 2001

ASME SECTION XI - REPAIR/REPLACEMENT

1. Component ID 3MRCEE01A 2. Code Class ASME SECTION III, CLASS 1
 3. Item Description STEAM GENERATOR #3-1
 4. N-5 Package Number 3RC01-2 5. W.O. Number 2413887
 6. Original Construction Code Edition 1971 EDITION & 1973 WINTER ADDENDA
 7. Original Installation Code Edition 1974 EDITION & 1975 WINTER ADDENDA
 8. Work Description INSTALL WESTINGHOUSE ROLL PLUGS IN 3MRCEE01A HOT LEG TUBES PER
ENGINEERING DFWO 2406659 EVALUATION AND DISPOSITION.

9. ☒ ISI Flaw NDE Method of Flaw Detection EDDY CURRENT
 Report Number 3R09 EDDY CURRENT EXAM. REPORT

10. Evaluation of the suitability of this work as per the requirements of IAW-4150.
EVALUATION PER ENGINEERING DFWO 2406659.

11. Repair/Replacement Work Organization WESTINGHOUSE
 12. Replacement Item Construction or reconciled Code/Edition 1971 EDITION & 1973 WINTER ADDENDA
 13. Repair/Replacement Activity Construction Code/Edition 1974 EDITION & 1975 WINTER ADDENDA
 14. ASME Section XI Code/Edition 1992 EDITION & 1992 ADDENDA.

15. Preservice Inspection Required. ☐ YES ☒ NO
MBN 08/23/01 If required, include a step in the W.O. to perform Preservice Inspection.
Initial Date

16. ASME Section XI Pressure Test Required ☐ YES ☒ NO
MBN 08/23/01 If required, include a step in the W.O. for ISI & ANII Inspection.
Initial Date

MBN 08/23/01 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
MBN 08/23/01 18. Include a step in the W.O. to record below all applicable numbers for repaired or
Initial Date replacement items.

ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/ROS NO.
TUBE PLUGS	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST	SEE ATTACHED LIST

19. Planner Michael B. Newell 8-23-01 Print Name MICHAEL B. NEWELL
Signature Date
 20. ISI Engineer Ramakant P. Indap 8-24-01 Print Name RAMAKANT P. INDAP
Signature Date
 21. ANII Robert G. Hogstrom 8-24-01 Print Name ROBERT G. HOGSTROM
Signature Date