

A subsidiary of Pinnacle West Capital Corporation

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102-05325-CKS/TNW/RJR August 17, 2005

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

Dear Sirs:

Subject:

Palo Verde Nuclear Generating Station (PVNGS)

Unit 2, Docket No. STN 50-529

Unit 2 Second 10-Year Interval - Twelfth 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 in the enclosure PVNGS Unit 2 Inservice Inspection Report for the twelfth refueling outage. This refueling outage was conducted from April 2, 2005 through May 20, 2005.

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

CKS/TNW/RJR/ca

Enclosure

CC:

B. S. Mallett

M. B. Fields

G. G. Warnick

A047

A member of the STARS (Strategic Teaming and Resource Sharing) Alliance

ENCLOSURE 1

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

PALO VERDE NUCLEAR GENERATING STATION

UNIT 2 INSERVICE INSPECTION REPORT

TWELFTH REFUELING OUTAGE

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

PREPARED BY:

REVIEWED BY:

APPROVED BY:

DATE: 7-13-05

DATE: 7-20-05

COMMERCIAL SERVICE DATE: 09/19/86

REPORT DATE: 07/12/05

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UNIT 2 INSERVICE INSPECTION REPORT

1. Introduction

This report is a summary of the Inservice Inspection (ISI) examinations performed during the twelfth refueling outage at the Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This report also includes all applicable examinations conducted since the last refueling outage. This was the first refueling for Interval 2, Period 3, which was conducted from April 2, 2005 through May 20, 2005. Palo Verde Unit 2 began commercial operation on September 19, 1986.

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

- 1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports.
- 2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8.

This report is a summary of the ISI examinations performed during the Third Interval through May 20, 2005. All of the examination report numbers listed in Appendix "A" for the twelfth refueling and examinations performed since the last Summary Report are in bold print.

2. Examination Summary

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

Visual examination of 2SG033H017 (ASME Class 2 Item F1.20 Zone 44) identified that the weld between the I-beam and beam attachment (clip assembly) failed. The apparent cause of the failure was high cycle fatigue. Work order 2789760 was issued to modify the support to reduce the weld stresses. CRDR 2786278 evaluated this condition, the results of the analysis determined that ASME Code Stress Allowables continued to be maintained for the "As-Found" condition.

Documentation of non-rejectable indications detected during the performance are maintained on file.

3. Examination Techniques

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

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

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

4. Accessibility

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

5. Personnel

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

6. Equipment and Materials

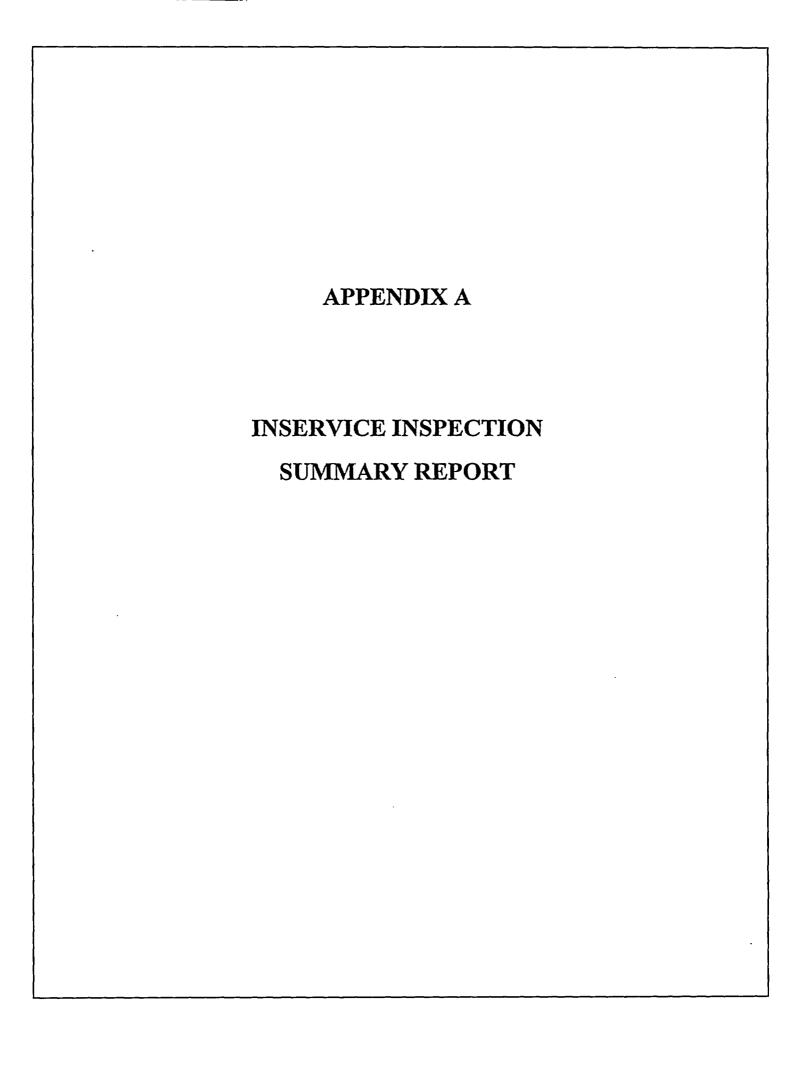
The equipment and materials utilized were certified to the requirements of ASME Section XI. Copies of all certifications are maintained on file.

7. Repairs and Replacements

One repair and no replacements were performed as a result of ISI examinations during U2R12. The repair was as follows and is further addressed in Section 2 of the Summary.

<u>ZONE</u>	<u>WO/CRDR</u>	ITEM SUMMARY #	DISCREPANCY
44	2786278 / 2789760	2-044-SG-033-H017	Weld failure at I-beam attachment repaired

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



APPENDIX A

Definition of Terms

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

ASME Item No - The ASME Section XI Category/Item Numbers are listed in the Code,

Subsections IWB and IWC. The item number prefixes are defined below:

AHE - Augmented high energy systems piping

B - ASME Class 1 systems

BFLYWH - Reactor coolant pump flywheels

C - ASME Class 2 systems

F - ASME Class 1 and 2 supports

Zone No - Area designation per PVNGS design

Comp/Sys - Component or system description

Insp Per - Inspection period

Amt Reqd - Number of items required to be completed in the period

Amt Comp - Number of *required* items completed

Item ID - Item identification per ISI program/zone drawings

Reports (VOL) - Volumetric exam report number

(SURF) - Surface exam report number

(VIS) - Visual exam report number

Remarks - Re-exam or replacement remarks indicate acceptable examination results

Definition of terms continued

Acc - Accessible

ADV - Atmospheric Dump Valve

Aux - Auxiliary

Atmos - Atmospheric

CEDM - Control Element Drive Mechanism

Circ - Circumferential

Cont - Containment

CS - Containment Spray

CSP - Containment Spray Pump

FW - Feedwater

HPSI - High Pressure Safety Injection

HTRS - Heaters

ICI - In Core Instrumentation

IEB - Inspection and Enforcement Bulletin

Letdown HT Exch. - Letdown Heat Exchanger

LPSI - Low Pressure Safety Injection

MS - Main Steam

MT - Magnetic Particle Test

Press Bound - Pressure Boundary

PSE - Preservice Examination

PSV - Pressurizer Safety Valve

PZR - Pressurizer

RCP - Reactor Coolant Pump

RCS - Reactor Coolant System

Reg HT Exch. - Regenerative Heat Exchanger

SD - Shutdown

SG - Steam Generator

Snub - Snubber Reduction Program

Surf - Surface

UT - Ultrasonic Testing

Vis - Visual

Vol - Volumetric

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item	Zone Compreys	Per	Reg	Comp		•••	Surf	V.300.	, remains
	47 MS SG1	One	12		47- 1	99-2342	99-2324	<u> </u>	
& 5.52	41 III 0 0 0 1	1-0110	- -		47- 2	99-2343	99-2324		-
40.02		 		 	47-4	99-2438	99-2202		
					47-8	99-2439	99-2202		
			 	 	47-12	99-2440	99-2202		
		+	 		47-16	99-2441	99-2202	-	
					47-20	99-2442	99-2202		
		 			47-24	00-2476	00-2473		
		 	 	 	47-25	99-2344	99-2202		
		 			47-28	99-2297	99-2284		
		+			47-29	99-2298	99-2284		
				<u> </u>	47-30	99-2345	99-2202		
	50 MS (West) SG2	Three	12	0	50-16	UT-05-039	33-2202		
	SU MIS (VVEST) SG2	Three	12	U	50-16				
	<u></u>	 				UT-05-041			
		 		 	50-24	UT-05-042			
					50-25	UT-05-043			
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	51 Atmos Dump SG1	One	13	13	51- 1	99-2286	99-2285		
		 	 	ļ	51-2	99-2287	99-2082		ļ <i>_</i>
	<u> </u>		 		51-3	99-2288	99-2082		
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		<u> </u>			51- 8A	00-2210	00-2212		
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					51-9	99-2293	99-2082		
					51-40	99-2294	99-2082		
					51-85	99-2295	99-2285		
					51-86	99-2296	99-2285		
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					51-27	UT-03-143	MT-03-113		
					51-28	UT-03-144	MT-03-121		
					51-29	UT-03-145	MT-03-120		
					51-30	UT-03-147	MT-03-114		
		1			51-31	UT-03-148	MT-03-115		
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					51-34	UT-03-152	MT-03-090		
					51-37	UT-03-153			
		1			51-39	UT-03-155			
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	53 Steam to Aux FW	One	10	10	53-11	99-2299	99-2083		
		1			53-12	99-2300	99-2083		
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		1			53-21	99-2304	99-2083		
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					53-10		MT-02-008		
	56 FW SG1	One	6	6	56- 1	00-2432	00-2425		
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					56- 7	00-2478	00-2425		
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	57 FW SG2	Three	6	0	57-1	UT-05-046			
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ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.61	 				51-70	UT-03-171	MT-03-087		
		1			51-71	UT-03-172	MT-03-089		
					51-72	UT-03-173	MT-03-091		
					51-73		MT-03-092		
					51-74	UT-03-174	MT-03-093		
					51-75	UT-03-175	MT-03-095		
					51-76	UT-03-154	MT-03-096		
					51-77	UT-03-159	MT-03-072		
	<u> </u>	1			51-78		MT-03-071		
					51-79		MT-03-069		
					51-80		MT-03-078		
					51-81		MT-03-079		<u> </u>
					51-82		MT-03-080		<u> </u>
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					51-84		MT-03-082		<u> </u>
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					47-19	99-2361	99-2202		
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		<u> </u>			47-27	99-2358	99-2284		
	48 MS SG1	Two	8(1)	8(1)	48- 3		MT-03-063		
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		-l <u>-</u>			48-35	UT-03-132	MT-03-077		
	50 MS (West) SG 2	Three	7	0	50-15	UT-05-038		ļ	
	<u> </u>	- 		ļ	50-19	UT-05-040			
					50-27	UT-05-044	00.000	ļ	
B 1.22	2 Closure Head	One	0	0	2-4	99-2386 99-2387 99-2388 99-2389	99-2390		Accessible Areas
B 1.30	1 Reactor Vessel	One	50%	50%	1-14	*			Exam 0 to 180 deg
	2 Closure Head	One	33%	33%		99-2382 99-2383 99-2384 99-2385	99-2390		Exam 0 to 120 deg
-		Two	33%	33%	2-1	UT-02-076	MT-03-145	-	Exam 120° to 240° (15' to 32')
B 2.11 & 2.12	5 PZR	One	66%	66%		99-2276 99-2277 99-2278 99-2279	99-2193		Exam 0 to 240 deg
					5-3	99-2276 99-2277 99-2278 99-2279	99-2193		1' long seam for 5-2
		Two	66%	66%	5-8	UT-02-025	 		Exam 0° - 240° (0' - 19' 5")
					5-6	UT-02-030 UT-02-032 UT-02-035 UT-02-038			1' of long seam
	3 SG1	One	33%	33%	3-5	99-2227 99-2228 99-2229 99-2230			Exam 0 - 120 deg

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp		Vol	Reports Surf	Visual	Remarks
B 2.31 & 2.32			2	2	3- 3	99-2251 99-2252 99-2253 99-2254			
					3-10	99-2247 99-2248 99-2249 99-2250			
					3-11	99-2227 99-2232 99-2233 99-2234			
		Two	1	1	3-105	UT-03-040			PSE
	4 SG2	Two	0	0	4-105	UT-03-041			PSE
B 2.40	3 SG1	One	50%	50%	3-6	99-2231 99-2232 99-2233 99-2234			Exam 0 - 180 deg
		Two	0	0	3-106	UT-03-042			PSE
					3-107	UT-03-193 UT-03-043			PSE PSE
	4 SG2	Two	50%	50%	4-106	UT-03-044			PSE
					4-107	UT-03-045 UT-03-194			PSE PSE
B 3. 90	1 Reactor Vessel	One	2	2	1-15				*Seperate Report by Wesdyne. Exam completed in 2R7
					1-18	•			
B 3.100	1 Reactor Vessel	One	2	2	1-15	*		i	
					1-18	*			
B 3.110	5 PZR	One	2	2	5- 9	00-2379 00-2380 00-2381 00-2382			
					5-11	00-2341 00-2342 00-2343 00-2344			
		Two	2	2	5-10	UT-02-036 UT-02-039 UT-02-033 UT-02-027			Limited UT exam
į					5-13	UT-02-031 UT-02-034 UT-02-040 UT-02-037			Limited UT exam
B 3.120	5 PZR	One	2	2	5- 9	00-2386 00-2387	- 		
					5-11	00-2353 00-2357			,
	5 PZR	Two	2	2	5-10	UT-02-067			Inner radius
					5-13	UT-02-066			Inner radius
B 3.130	3 SG1	One	1	1	3-9	99-2243 99-2244 99-2245 99-2246			
	 	Two	1	1	3-100	UT-03-046			PSE
	 	1	<u> </u>	┈	3-101	UT-03-047			PSE
	 	+		 	3-102	UT-03-048			PSE

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item		Per	Req	Comp		1	Surf	1	, condino
B 3.130	4 SG2	One	1	1	4- 9	00-2516 00-2517 00-2518 00-2519			
		Two	1	1_1_	4-100	UT-03-049			PSE
	<u> </u>	-	 	 	4-101	UT-03-050	ļ	ļ	PSE
B 3.140	3 SG1	One	1 1	1	4-102 3- 9	UT-03-051 00-2521	 	 	PSE
B 3.140	3301	One	<u> </u>	<u> </u>		00-2523			
		Two	1_1_	1	3-100	UT-03-052			PSE
				<u> </u>	3-101 3-102	UT-03-053 UT-03-054	 		PSE PSE
	4 SG2	One	1	1	4-9	00-2522	 	 	PSE
	1,002	1 0	•	! '		00-2524	}	1	
		Two	1	1	4-100	UT-03-055			PSE
					4-101	UT-03-056			PSE
		4			4-102	UT-03-057	<u> </u>		PSE
B 4.11	2 Closure Head	Two	0	0	Vent Nozzles	ļ	 	VT-03-864 VT-05-493	NRC Order EA-03-009
		Three			Vent Nozzles			V 1-U5-493	Aug. BMI (EA-03-009) *Separate Westinghouse report
B 4.12	2 Closure Head	One	8	8	CEDM			00-2569	
	,	Two	8	8	CEDM			VT-02-412 VT-03-859	All nozzles Exam each time.
		Three	9	9	CEDM-Nozzles	•		VT-05-491	Aug. all (EA-03-009) *Separate Westinghouse report
		Three	9	9	CEDM-Nozzles			VT-05-585	
B 4.13	1 Reactor Vessel	One	5	5	Instru			00-2569	
		Two	5	5	Instru			VT-02-410	NRC Order EA-03-009, All
	ļ	There	6	6	INST. NOZZLE	 -	 	VT-03-862 VT-05-490	nozzles Exam each time. + Aug BMI all (BL 2003-002)
		Three	•		INST. NOZZLE			VT-05-584 VT-05-589	+ Aug BMI all (BL 2003-002)
B 4.20	5 PZR	One	12	12	heaters			99-2522 00-2569	
		Two	12	12	heaters				PSE & Aug. All stdplpe & htr noz. CE IB 89-06
		Three	12	12	PZR-HEATERs		 	VT-05-494	Aug. All stdpipe & htr noz. CE
B 5.40	20 PZR Surge	One	2	2	5-34	00-2426 00-2427 00-2428 00-2520	00-2111		10 03-00
	31 PZR Safeties				5-29	00-2383 00-2384 00-2385 00-2429 00-2099	00-2089		
	29 PZR Spray	Two	2	2	5-33		PT-02-030		
_	31 PZR Safeties				5-31	UT-02-062 UT-02-064 UT-02-063 UT-02-061	PT-02-028		93% coverage acceptable per code case N-490
			1	<u></u>		UT OF OOA	 	VT-05-495	Aug UT, BMI VT (IN 04-11)
	20 PZR Surge	Three	2	0	5-34	UT-05-024	1	111-00-100	I And OI' DIMI AT (IM 04-11)
	20 PZR Surge 29 PZR Spray	Three	2	0	5-33	UT-05-033			Aug UT, BMI VT (IN 04-11)
		Three	2	0	5-33 5-29	UT-05-033 RT-05-004			Aug UT, BMI VT (IN 04-11) Aug RT, BMI VT (IN 04-11)
	29 PZR Spray	Three	2	0	5-33	UT-05-033		VT-05-505	Aug UT, BMI VT (IN 04-11)

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visua!	Remarks
Item		Per	Req	Comp			Surf		
B 5.40					5-31	RT-05-006			Aug RT (IN 04-11)
					5-31	UT-05-036		VT-05-508	Aug UT, BMI VT (IN 04-11)
			<u> </u>	<u> </u>	5-32	RT-05-007	ļ	<u> </u>	
					5-32	UT-05-037	 	VT-05-509	Aug UT, BMI VT (IN 04-11)
B 6. 10	2 Closure Head	One	18	18	1 thru 18		99-2332	99-2333	
B 6. 30	2 Closure Head	Two	18	18	19 thru 36	00.0000	MT-02-156	VT-03-815	St 440 47- 14- 1-4
	2 Closure nead	One	18	18	1 thru 18	00-2296	99-2335		Stud #18 credited to interval 1
		Two	18	18	18 thru 36	UT-02-083	MT-02-154 MT-02-155		Stud # 18 credited to period 1
B 6. 50	2 Closure Head	One	18	18	1 thru 18		 	99-2334	
D 0 400	40.000.44	Two	18	18	19 thru 36	00.0004	 	VT-03-819	
B 6.180	16 RCP 1A	One	5	5	1 thru 5	00-2394		99-2444 00-2441	
		Two	5	5	6 thru 10	UT-03-089		VT-02-357 VT-03-542	UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02)
		Three	6	6	11 thru 16	UT-05-001		VT-05-474	UT 11-16 + Aug VT all (IEIN 80- 27 & IEB 82-02)
	17 RCP 1B	One	5	5	1 thru 5	00-2394		99-2447 00-2441	
		Two	5	5	6 thru 10	UT-03-090		VT-02-361 VT-03-543	UT 6-10 + Aug VT all (IEIN 80-2) & IEB 82-02)
		Three	6	6	11 thru 16	UT-05-002		VT-05-476	UT 11-16 + Aug VT all (IEIN 80- 27 & IEB 82-02)
	18 RCP 2A	One	5	5	1 thru 5	00-2394		99-2446 00-2441	27 G. ILD 62-02)
	 	Two	5	5	6 thru 10	UT-03-092		VT-02-364 VT-03-545	UT 6-10 + Aug VT all (IEIN 80-27 & IEB 82-02)
<u> </u>		Three	6	6	11 thru 16	UT-05-003	 	VT-05-478	UT 11-16 + Aug VT all (IEIN 80-
	19 RCP 2B	One	5	5	1 thru 5	00-2394	 	99-2445	27 & IEB 82-02)
	 	Three	6	6	11 thru 16	UT-05-004	 	00-2441 VT-05-480	UT 11-16 + Aug VT all (IEIN 80-
		Two	5	5	6 thru 10	UT-03-094	MT-02-022	VT-03-546	27 & IEB 82-02) UT 6-10 + Aug VT all (IEIN 80-2)
							MT-02-023 MT-02-024		& IEB 82-02)
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<u>.</u>	}	ł			}		MT-02-037	İ	
B 6.190	19 RCP 2B	Interval	16	16	Flange			VT-02-414	
B 6.200	16 RCP 1A	One	5	5	1 thru 5		<u> </u>	99-2444 00-2441	
		Two	5	5	6 thru 10			VT-02-358 VT-02-359	Exam all, credit for 5
	17 RCP 1B	One	5	5	1 thru 5			99-2447 00-2441	
		Two	5	5	6 thru 10		 	VT-02-360 VT-02-363	Exam all, credit for 5
	18 RCP 2A	One	5	5	1 thru 5	- 	 	99-2446	
{					1	<u> </u>		00-2441	

ASME Item	Zone Comp/Sys	Insp Per	Amt Reg	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 6.200		Two	5		6 thru 10		1	VT-02-365 VT-02-362	Exam all, credit for 5
	19 RCP 2B	One	5	5	1 thru 5			99-2445 00-2441	
		Two	5	5	6 thru 10			VT-02-245 VT-02-366 VT-02-367	Exam all, credit for 5
B 7.20	5 PZR	One	20	20	20 studs			99-2260 00-2249	
		Two	20	20	20 studs		MT-02-148	01-2051 VT-02-262 VT-02-282 VT-03-799	Includes IEB082-02 supplemental examinations
		Three	20	20	20 studs			VT-05-473	IEB 82-02
B 7.30	3 SG1	One	40	40	40 studs		T	99-2258 00-2247	
		Two	40	40	40 studs		MT-02-149 MT-02-150	VT-02-263 VT-02-266 VT-02-278 VT-02-279 VT-03-547	Includes IEB082-02 supplemental examinations PSE
		Three	40	40	40 studs	 	 	VT-05-471	IEB 82-02
	4 SG2	One	40	40	40 studs			99-2259 00-2248	
		Two	40	40	40 studs		MT-02-151 MT-02-152	VT-02-265 VT-02-280 VT-02-281 VT-03-548	Includes IEB082-02 supplemental examinations PSE
	 	Three	40	40	40 studs	 	1	VT-05-472	IEB 82-02
B 7.50	31 PZR Safeties	One	1	1	PSV-200			99-2261 99-2373 00-2250	
					PSV-201			99-2261 99-2373 00-2250	
					PSV-202			99-2261 99-2373 00-2250	
					PSV-203			99-2261 99-2373 00-2250	

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
3 7.50		Two	1		PSV-200	 	MT-02-038	VT-02-108	Includes IEB082-02
			,		. •		MT-02-039	VT-02-109	supplemental examinations
- 1		}			i	ł	MT-02-040	VT-02-110	orphismen skammansmis
		1 1				1	MT-02-041	VT-02-111	
- 1		}				1	MT-02-042	VT-02-112	}
- 1							MT-02-042	VT-02-112	
- 1						1	MT-02-044	VT-02-113	
i i		1 1				İ	MT-02-044	VT-02-114 VT-02-115	İ
		1 1					MT-02-045		
ł		1 1				1	MT-02-046	VT-02-116 VT-02-117	ì
		1							
)		1 1				1	MT-02-048	VT-02-118	
		1					MT-02-049	VT-02-119	i
1		İ				ļ	MT-02-050	VT-02-120	
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							MT-02-052	VT-02-122	İ
ł		1 1				1	MT-02-053	VT-02-123	1
ļ							MT-02-054	VT-02-124	ļ
ļ		}				1	MT-02-055	VT-02-125	l
		1				1	MT-02-056	VT-02-126	
							MT-02-057	VT-02-127	1
- 1		1				1	MT-02-058	VT-02-128	
		1 1					MT-02-059	VT-02-129	
1		i i				Ì	MT-02-060	VT-02-130	
1		1 1					MT-02-061	VT-02-131	
1		1 1				1		VT-03-537	}
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	· · · · · · · · · · · · · · · · · · ·	1			PSV-201	 . 	MT-02-062	VT-02-132	Includes IEB082-02
				· '		1	MT-02-063	VT-02-133	supplemental examinations
į		1 ([ĺ	MT-02-064	VT-02-134	1
1		1				1	MT-02-065	VT-02-135	
ì		1				ł	MT-02-066	VT-02-136	1
l							MT-02-067	VT-02-137	
- 1		1			ļ	1	MT-02-068	VT-02-138	}
						1	MT-02-069	VT-02-139	1
j							MT-02-070	VT-02-140	1
i				[]		1	MT-02-071	VT-02-141	[
		1					MT-02-071	VT-02-141	{
ł		1			1	1	MT-02-072		1
ł			'			I		VT-02-143	1
j						1	MT-02-074	VT-02-144	l
						1	MT-02-075	VT-02-145	I
1						1	MT-02-076	VT-02-146	1
ĺ						1	MT-02-077	VT-02-147	[
}							MT-02-078	VT-02-148	
ł				(1	MT-02-079	VT-02-149	1
]							MT-02-080	VT-02-150	1
-				}		1	MT-02-081	VT-02-151	1
1						1	MT-02-082	VT-02-152	
-		1				1	MT-02-083	VT-02-153	J
ĺ							MT-02-084	VT-02-154	1
ļ							MT-02-085	VT-02-155	ļ
1]	!				1	VT-03-538	1
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ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 7.50		- 	1104	Comp	PSV-202	 	MT-02-086	VT-02-156	Includes IEB082-02
20]			ļ	0 0 - 202	ŀ	MT-02-087	VT-02-157	supplemental examinations
		İ	ı			1	MT-02-088	VT-02-158	Supplemental examinations
	}			,			MT-02-089	VT-02-159	\
	}			1			MT-02-090	VT-02-160	
						1	MT-02-091	VT-02-161	
	İ					1	MT-02-092	VT-02-162	
							MT-02-093	VT-02-163	
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							MT-02-095	VT-02-165	
							MT-02-096	VT-02-166	}
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						1	MT-02-098	VT-02-168	·
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							MT-02-103	VT-02-173	
l]	1 .				1	MT-02-104	VT-02-174	1
		1					MT-02-105	VT-02-175	1
							MT-02-106	VT-02-176	ĺ
	ļ					1	MT-02-107	VT-02-177	1
							MT-02-108	VT-02-178	
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						1		VT-03-539	
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	ļ — — — — —			-	PSV-203	 	MT-02-110	VT-02-180	Includes IEB082-02
				!	PSV-203	i .		VT-02-180 VT-02-181	
		İ	'			i	MT-02-111 MT-02-112	VT-02-181	supplemental examinations
							MT-02-112	VT-02-182	
				1		1	MT-02-113	VT-02-183	ì
	}					1	MT-02-115	VT-02-185	ł
İ		1		'			MT-02-115	VT-02-185	
	i						MT-02-117	VT-02-187	
	ļ					1	MT-02-117	VT-02-188	1
							MT-02-119	VT-02-189	
		1					MT-02-120	VT-02-190	
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		Ī				1	MT-02-122	VT-02-192	1
							MT-02-123	VT-02-193	
	}						MT-02-124	VT-02-194	
	Ì	1		i		1	MT-02-125	VT-02-195	1
							MT-02-126	VT-02-196	!
					,	1	MT-02-127	VT-02-197	
	ļ]					MT-02-128	VT-02-198	1
							MT-02-129	VT-02-199]
							MT-02-130	VT-02-200	1
							MT-02-131	VT-02-201	
			· '				MT-02-132	VT-02-202	1
			· '				MT-02-133	VT-02-203	1
				•				VT-03-541	
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	 			<u> </u>	DD14 655	 		107.02.555	
	ļ	Three	2	_2_	PSV-200	ļ	 	VT-05-576	Aug (IEB 82-002)
	07.01				PSV-202	 	1	VT-05-577	Aug (IEB 82-002)
0.7.55	37 Charging	One	1	1	V-435		 	99-2113	ļ
B 7.60	16 RCP 1A	One	5	5	1 thru 5			99-2444	
	 	4				 	 	00-2441	F 10
		Two	5		6 thru 10	 		VT-03-512	Exam 16
	17 RCP 1B	One	5	5	1 thru 5		1	99-2447	1
	<u> </u>	- -				 	 	00-2441	
		Two	5	5	6 thru 10	ļ	1	VT-02-257	1
	I	1				I	1	VT-03-544	1

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
3 7.60	18 RCP 2A	One	5	5	1 thru 5			99-2446 00-2441	
		Two	5	5	6 thru 10		<u> </u>	VT-02-215	Exam all, credit for 5
	}	1		ł		1	}	VT-02-216	·
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	Ì	1 1		1		i	1	VT-02-218	
	}			l		1	}	VT-02-219	
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				[Î	1	VT-02-221	
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				Ì				VT-02-224	
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		1		!			ŀ	VT-02-227	
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	ļ			J		1 .	}	VT-02-229	ļ
				1				VT-02-230 VT-03-514	
						<u> </u>	İ	V 1-03-514	
	19 RCP 2B	One	5	5	1 thru 5			99-2445 00-2441	
	 	Two	5	5	6 thru 10	 	 	02-2001 VT	
	l .	1		1		1	ì	02-258	
7.70	21 SD Cooling A	One	1	1	UV-653	 	 	99-2321	
77.70	22 SD Cooling B	One	1	1	UV-654	 	 	00-2324	
	22 OD Cooling D	Two	1	1	UV-652	 	 	VT-02-058	
	23 SI 1A	One	1	1	V-237	 	 	00-2567	
	23 31 IA	Two	2	2	UV-634	╂───	 	VT-02-236	
	 -	IWU			V-235	 	 	VT-02-236	
	104 CL4D	 		 			 	99-2069	}
	24 SI 1B	One	1	1 1	V-543	 	 		
	ļ	Two	2	2	V-245	 	 	VT-02-270	
	05.01.04	-		 	V-644	 	 	VT-02-242	
	25 SI 2A	One	1	1_1_	V-540	 	ļ	99-2177	<u> </u>
		Two	1	1	V-217	 	 	VT-02-260	
	26 SI 2B	One	1	1 1	V-225	 	}	99-2091	
	<u> </u>	Two	2	2	V-541	 	<u> </u>	VT-02-320	
					V-624	 		VT-02-321	
	27 PZR Spray 1A	Two	1_	1	V-100E	 	<u> </u>	VT-02-371	
	28 PZR Spray 1B	One	2	2	V-241	Į.		99-2181	Reject
								99-2372	Re-exam
						<u> </u>	 	00-2046	<u></u>
	j]]		j	V-242	}	j	99-2182	Reject
							1	99-2372	Re-exam
				<u> </u>		<u> </u>		00-2046	
		Two	1	1	V-100F			VT-02-368	
	31 PZR Safeties	One	1	1	PSV-200		1	99-2505	
				<u></u>		1	1	00-2435	
		Two	1_	11	PSV-202			VT-03-540	
	32 Drain 1A	One	2	2	V-234			99-2081	
					V-334			99-2081	
	33 Drain 1B	Two	2	2	V-235			VT-02-312	
					V-335			VT-02-311	
	34 Drain 2A	Two	2	2	V-233			VT-02-322	
	1	1			V-333		I	VT-02-323	
	37 Charging	One	1	1	PDV240	Ţ		99-2346	
	38 Drain 1A	One	1	1	V-215		1	00-2097	
	39 HPSI A	One	1	1	V-523	 	 	00-2085	
		Two	2	2	V-522	 	1	VT-02-314	
	 	1	 -	 _	V-957	 	1	VT-02-313	
	40 HPSI B	Two	1	1	V-532	 	 	VT-02-324	
	2 Closure Head	One	1	1-	CEDM 92			00-2322	

Tem	ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
8 8.20 5 PZR One 65% 66% 5-1 99.2394 99.2193 99.2193 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 99.2396 UT-02.0598 UT-02.0598 UT-02.0598 UT-02.0598 UT-02.0598 UT-02.0598 UT-02.0599 99.2396 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2240 99.2241 99.2241 99.2240 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2241 99.2					1		1		1.000.	l
8 8.20 SPZR	B 7.80	 	1		<u> </u>		 	 	00-2322	
B 8.30 3 SG1 One 33% 33% 3-1 99-2238 89-2194 99-2240 99-2240 99-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2241 89-2242 89-2241 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2242 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2244 89-2243 89-2244 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2244 89-2243 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2244 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-2243 89-	B 8.20	5 PZR	One	66%	66%		99-2395 99-2396	99-2193		
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8 9.11	B 8.30	3 SG1					99-2240 99-2241			,
\$ 5.12 5.03 rpmiy 5.00 7 1.27 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00									!	
3-30 99-2216 99-2216 99-2218 99-2218 99-2218 99-2219 99-2219 99-2219 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2221 99-2222 00-290		6 RCS Piping	One	7	7		<u> </u>			
99-2220 99-2221 99-2222 99-2222 99-2222 99-2222 99-2222 99-2222 99-2222 99-2222 99-2222 99-2223 99-2229 97-77 90-2511 90-2511 90-2511 90-2511 90-2511 90-2511 90-2511 90-2512 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-2538 90-253	& 9.12						99-2216 99-2217			Wesdyne. Exams
17-7							99-2220 99-2221 99-2222			
Two 6 6 6 6-1					<u> </u>		<u> </u>		 	completed in U2R7
Two 6 6 6 6-1 UT-03-189 MT-03-134 PSE 17-1 UT-03-197 MT-03-144 PSE	ļ	 		<u></u> .	 -		7		 	
7-1		<u> </u>								l nor
B-13		 	Iwo	-6-	 				 	
8-16		 	 		 				 	
8-19		 	- 		 				 	
10-13									 	
10-16		 	 		 	<u> </u>			 	
10-19		 	1						 	
12-16		 	1						1	PSE
12-19		 	1			12-13	UT-03-104	MT-03-054		PSE
14-13						12-16	UT-03-128	MT-03-055		PSE
14-16						12-19	UT-03-196	MT-03-131		PSE
14-19										
16-1										<u> </u>
17-1					ļ				<u> </u>	PSE
18-1		<u> </u>			<u> </u>				<u> </u>	
19-1			-		 				<u> </u>	
3-103			 		 				 	
4-103		}			 				 	PSF
20 PZR Surge			-	 					 	
Three 3 0 6-10 UT-05-025 VT-05-496 Aug BMI VT (IN 2004-11) 21 SD Cooling A One 3 3 6-11 00-2531 00-2112 00-2532 00-2533 00-2535 00-2535 00-2539 21-18 00-2536 00-2536 00-2528 00-2537 21-20 00-2534 00-2538 00-2538 Two 2 2 21-14 UT-02-125 PT-02-059		20 PZR Surge	One	1	1				 	
21 SD Cooling A One 3 3 6-11 00-2531 00-2112 00-2532 00-2533 00-2535 00-2539 00-2539 00-2537 00-2537 00-2537 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2538 00-2588 00-2588 00-2588 00-2588 00-2588 0		1-5 i Eri Odigo	_1						VT-05-496	Aug BMI VT (IN 2004-11)
00-2537		21 SD Cooling A					00-2531 00-2532 00-2533 00-2535	00-2112		
Two 2 2 21-14 UT-02-125 PT-02-059						<u> </u>	00-2537			
			\ <u></u>				00-2538			
	 	 	Iwo	-2-		21-14		PT-02-059	 	

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.11 & 9.12		Three	2	0	6-11	UT-05-026		VT-05-497	Aug UT & BMI VT (IN 2004-11), CC N-460
	22 SD Cooling B	One	2	2	22-11	00-2244 00-2245	00-2101		
					22-14	00-2246	00-2101		
		Two	3	3	7-9	UT-02-010 UT-02-011 UT-02-026	PT-02-017		
					22-1	UT-02-007	PT-02-016]	
		1			22-17	UT-02-052	PT-02-041	1	
		Three	3	0	7-9	UT-05-027		VT-05-498	Aug UT, BMI VT (IN 04-11), CC N-460
	23 SI 1A	One 4		4	9-10	00-2234 00-2235 00-2236 00-2237	00-2100		
					23-1	00-2238	00-2100		
					23-2	00-2239	00-2100		
					23-4	00-2240 00-2241	00-2100		
		Two	0(1)	0(1)	23-6	UT-02-090 UT-02-091	PT-02-064		Limited UT exam, IN 97-19
		Three	2	0	9-10	UT-05-069	i	VT-05-499	Aug UT, BMI VT (IN 04-11)
	24 SI 1B	Two	3(1)	3(1)	24-14	UT-02-045 UT-02-050	PT-02-037		Limited UT exam
					24-16	UT-02-046 UT-02-048	PT-02-038		Limited UT exam
					24-19	UT-02-047 UT-02-051	PT-02-034		Limited UT exam
					24-6	UT-02-001 UT-02-003	PT-02-004		Limited UT exam, IN 97-19
	 	Three	3	0	11-10	UT-05-028	 	VT-05-500	Aug. BMI VT (IN 2004-11)
	25 SI 2A	One	2	2	25-26	99-2366	99-2078	1	
		1			25-29	99-2365	00-2084		
		Two	2(1)	2(1)	13-10	UT-02-112 UT-02-119 UT-02-122			
		1			25-1	UT-02-109	PT-02-058		
					25-4	UT-02-110 UT-02-113	PT-02-072		Limited UT exam
					25-6	UT-02-111 UT-02-114	PT-02-052		Limited UT exam, IN 97-19
		Three	1	0	13-10	UT-05-070		VT-05-501	Aug UT, BMI VT (IN 04-11)
	26 SI 2B	One	2	2	26-9	99-2367	99-2320		
					26-11	99-2368	99-2320		
		Two	1(1)	1(1)	26-17	UT-02-044 UT-02-049	PT-02-035	T	Limited UT exam
					26-6	UT-02-002 UT-02-004	PT-02-003		Limited UT exam, IN 97-19
		Three	3	0	15-9	UT-05-029	 	VT-05-502	Aug. BMI VT (IN 2004-11)
	28 & 29 PZR Spray	One	2	2	29-10	00-2114 00-2116	00-2088		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				-	29-11	00-2115 00-2117	00-2088		
		Two	1	1	29-1	UT-02-068 UT-02-124	PT-02-026		
		Three	2	2	29-1	UT-05-057	PT-05-021	 	PSE
	 	1		┝╼┈	29- 2		PT-05-022	 	PSE Limited UT 50% TEE
		1			29-3		PT-05-023	 	PSE Limited UT 50% TEE
		1			29-4		PT-05-024	 	PSE
		+		 	29-5	UT-05-061	PT-05-026	 	PSE

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
3 9.11					29-14	UT-05-062	PT-05-027		PSE
& 9.12	31 PZR Safeties	One	1	1	31-1	00-2354	00-2089		
		Two	2	2	31-10	UT-02-029	PT-02-027		
					31-9	UT-02-028	PT-02-029		
	36 Letdown	Two	1	1	36-75	UT-02-106	PT-02-070	1	
9.21	27 PZR Spray 1A	One	4	4	9-11	1	00-2102	 	
& 9.22	 	1			27-42	-	00-2102		
	 	1		 	27-43	 	00-2102	 	
		+			27-44	 	00-2102		
		Two	3	3	27-10		PT-02-006	 	
	 	1		- <u>-</u> -	27-16		PT-02-008	 	
	 			 	27-8	 	PT-02-007	 	
		Three	4	-	9-11		1-02-007	VT-05-503	Aug. BMI VT (IN 04-11)
	28 PZR Spray 1B	One	4	4	28-31		99-2213	V 1-03-303	Aug. Bill VI (IIV 04-11)
	20 PZR Spray 15	One	<u> </u>	 	28-32	- 	99-2213	 	
		4		 -	28-39		99-2213		
	ļ					 		 	
	<u> </u>	- -	 _		28-40		99-2213	ļ	
		Two	4	4	11-11		PT-02-040	 	
					28-11		PT-02-010	!	
				<u> </u>	28-20	 	PT-02-011		
					28-9	·	PT-02-009	<u> </u>	<u> </u>
		Three	3	0	11-11		l	VT-05-504	Aug. BMI VT (IN 04-11)
	30 Aux PZR Spray	One	2(2)	2(2)	30-1	00-2525 00-2529	00-2527		88-08 letter
					30-2	00-2526 00-2530	00-2527		88-08 letter
			 -	 	30-7		99-2076		
	 		 -	 	30-13		99-2076	 	<u> </u>
	 			2	30-13	- -	PT-02-074	 -	
	ļ	Two	2			- 			
	ļ				30-6	1	PT-02-073	} -	IDOS LL. W. LUZ BON TES
		Three	0	0	30-1 30-2	UT-05-063 UT-05-064	PT-05-028 PT-05-029		PSE Limited UT 50% TEE PSE Limited UT 50% Valve
 -		-			30-7		PT-05-030		PSE
	32 Drain 1A	One	3	3	8-18	1	99-2079		
					32-1	- 	99-2079		
			1		32-2	- 	99-2079		
		Three	0	0	8-18			VT-05-510	Aug. BMI VT (IN 04-11)
	33 Drain 1B	Two	3		10-18		PT-02-051	1	
	JOS DIGHT ID	1 1110	_ <u> </u>	- - -	33-1		PT-02-048	 	
	 		 	 	33-5	- 	PT-02-049	 	
	 	Three	0	0	10-18	- -	1-02-045	VT-05-511	Aug. BMI VT (IN 04-11)
	24 Decis 24				12-18		 -	VT-05-512	Aug. BMI VT (IN 04-11)
	34 Drain 2A	Three	3	0			99-2191	141-03-312	Aug. Dan VI (IN 04-11)
	36 Letdown	One	4	4	36-8			 	
	ļ	- 	 		36-9		99-2191	 	
	ļ	-∤	 	 	36-28		99-2180	 	
	<u> </u>		ļ	 	36-35		99-2180	 	
		Two	6	6	36-25		PT-02-065	<u> </u>	
					36-26		PT-02-066		
					36-43		PT-02-067		
					36-44		PT-02-068	<u> </u>	
	1				36-45		PT-02-069		
	T	1		1	36-80	1	PT-02-071		1
*		Three	9	0	14-18	1	1	VT-05-513	Aug. BMI VT (IN 04-11)
	37 Charging	One	5	5	37-41		99-2347	1.	
	T. GG.g.iig	 	- <u>-</u> -	 	37-42		99-2347	1	{
	 		├──	 	37-43		99-2347	 	
	 		 	 	37-43 37-45	- 		 	
				1	J3/ -4 3	1	99-2347	<u> </u>	i
	 				07.47		100 0047	1	
					37-47		99-2347		
	1				101-70	1	100 2047	1	I
		Two	7	7	37-47 13-11 37-28		99-2347 PT-03-015 PT-03-014		

ASME Item	Zone Comp/Sys	Insp Per	Amt Rea	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.21	 	1	1.04	-	37-29	 	PT-02-053	 	····
& 9.22	}				37-30	 	PT-02-054		
	 				37-32	 	PT-02-055	 	
		╂╼╌╼┥			37-33	 	PT-02-056		
					37-34	 	PT-02-057		
		These	-			 	1-02-037	VCC 05 544	A D101777 (D1 04 44)
	20 Design 4.6	Three	6	0	13-11 38-1	 	PT-02-062	VT-05-514	Aug. BMI VT (IN 04-11)
	38 Drain 1A			1		 			
	39 HPSI A	One	2	2	39-1	 	99-2080		
	ļ	 			39-5	117 00 000	99-2080	<u> </u>	
	ļ	Two	3	3	39-12	UT-02-022	PT-02-013	! -	}
	<u> </u>				39-13	UT-02-021	PT-02-014		
					39-24	UT-02-015 UT-02-016	PT-02-019		
	40 HPSI B	One	3	3	40-1	l	00-2103		
					40-2		00-2103		
	T				40-3		00-2103		
		Two	2	2	40-6	UT-02-019	PT-02-012		l
					40-7	UT-02-020	PT-02-020		
B 9.31	6 RCS Piping	One	1	1	9-8	00-2330 00-2331	00-2289		
-		Two	1	1	13-8	UT-02-118 UT-02-123	MT-02-006		
B 9.32	6 RCS Piping	One	1	1	8-17	1	99-2068	 	
D 9.32	O NGS Fipilig	Two	1	1	13-9	 	MT-02-157	 	
	22 CD Cooling D		_			 	00-2203	 	
5.0.40	22 SD Cooling B	One		1_1_	22-7A	ļ	 	 	
B 9.40	30 Aux. Pzr Spray	Three	0	0_	30-14	 	PT-05-031	ļ	PSE
	<u> </u>	 		<u> </u> -	30-15]	PT-05-032	ļ	PSE
	32 Drain 1A	One	1	1_1_	32-6	<u> </u>	99-2079	 -	<u> </u>
<u></u>	33 Drain 1B	Two	1	1_1_	33-6		PT-02-050	ļ	
	34 Drain 2A	Two	1	1_1_	34-6	ļ <u>.</u>	PT-02-061	 	
	38 Drain 1A	One	_1_	1_1_	38-5		00-2098		
B10.10	36 Letdown	One	1	1_1_	RC-091-H005		99-2180	 _	
					RC-091-H006		99-2180		
	<u> </u>	Two	1	1_1_	RC-091-H006	<u> </u>	PT-02-005	 	!
B12.20	19 RCP 2B	Interval	1	1_1_	RCP 2B casing	<u> </u>	<u> </u>	VT-02-072	
B12.50	24 SI 1B	Interval	3	11_	V-245	<u> </u>	<u> </u>	VT-03-698	1
	25 SI 2A				V-540		l	VT-03-773	
B13.10	1 Reactor Vessel	One	100%		Access areas		<u> </u>	00-2556	<u> </u>
		Two	100%	100%	Access areas		L	VT-03-811	
B14.10	2 Closure Head	One	2	2	CEDM-10-76	00-2329	00-2335		
					CEDM-10-83	00-2329	00-2335		
					CEDM-9-76	00-2328	00-2335		
					CEDM-9-83	00-2328	00-2335		
		Two	2	2	CEDM-10-78	UT-02-088	PT-02-079		
		7			CEDM-10-88	UT-02-089	PT-02-081		
	1	1			CEDM-9-78	UT-02-086	PT-02-078		1
	1	1			CEDM-9-88	UT-02-087	PT-02-080		1
B15.10	2 Closure Head	Two	0	0	Head		1	VT-03-863	NRC Order EA-03-009
<u> </u>	 	Three	0	ō	Head		1	VT-05-492	Aug. BMI (EA-03-009)
B15.10 Thru 15.70	RCS Piping	One	ALL	ALL	PressBound			•	*RR#11 & 12 99-2410, 99 2522, 00-2001, 00-2042, 00-2043, 00-2047, 00-2077, 00-2191, 00-2150, 00-2213, 00-
<u></u>		Two	ALL	ALL	PressBound			•	2262, 00-2512, 00-2564, 00- 2569, 00-2573, 01-2001 * RR# 11 & 12
									VT-02-409, VT-03-501, VT-03-502, VT-03-813, VT-03-814, VT-03-856, VT-03-860, VT-03-869, VT-03-870, VT-03-875

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
1.10	 	Three	All	All	PressBound		 	VT-05-586	Each refueling outage
	20 PZR Surge	One	2	2	RC-028-H001			99-2151	
					RC-028-H002		-	99-2152	
	 	Two	2	2	RC-028-H842			VT-03-494	
					RC-028-H844		 	VT-03-495	
	21 SD Cooling A	One	7	7	RC-051-H001		 	00-2118	support deleted
	Li ob ocomigre			┝╧	RC-051-H002		 	00-2119	Support deleted
	 		-	 	RC-051-H003		 	00-2110	
	 			 	RC-051-H821		 	00-2121	
	 				SI-240-H010			99-2337	
				 -			ļ		
	ļ			 -	SI-240-H011		ļ	99-2338	
					SI-240-H013			99-2339	<u></u>
	ļ	Two	7	7	RC-051-H004			VT-02-038	Deleted
	<u> </u>				RC-051-H005		<u> </u>	VT-02-037	
				L	SI-240-H002			VT-02-018	
					SI-240-H011			VT-03-788	PSE
					SI-240-H012			VT-02-017	
					SI-240-H822			VT-02-016	
	T			I	SI-240-H823		1	VT-02-039	
	 				SI-240-H824		ī — — — ·	VT-02-040	
	22 SD Cooling B	One	4	4	RC-068-H005			00-2104	
					RC-068-H006			00-2105	support deleted
	 				SI-193-H017		 	00-2106	Support deleted
	 				SI-193-H019		 	00-2107	support deleted
		T		 			ļ		support deleted
	ļ	Two	4	4	SI-193-H008		 	VT-02-012	ļ
					SI-193-H009		ļ	VT-02-014	
	<u> </u>				SI-193-H020		 	VT-02-015	
	<u> </u>			<u> </u>	SI-193-H025			VT-02-013	<u> </u>
	23 SI 1A	One	2_	2_	SI-207-H003		<u>1</u>	00-2086	<u> </u>
					SI-207-H005			00-2087	support deleted
		Two	2	2	SI-207-H007			VT-02-243	
		1		ł				VT-02-244	ł
	 	 		 	SI-207-H011			VT-02-235	
	24 SI 1B	One	2	2	SI-223-H003		 	99-2117	[
			 -	 -	SI-223-H004		 	99-2523	support deleted
	 	Two	2	2	SI-223-H001		 	VT-02-241	- Cappoit doi:otod
	 	1		 -	SI-223-H002			VT-02-240	
	25 SI 2A	One	2	2	SI-156-H007		 	99-2094	support deleted
	23 31 21	- One			SI-156-H009		 	99-2099	Support deleted
		7		 			 	VT-02-238	
	<u> </u>	Two	1	1_1_	SI-160-H001		 		
	26 SI 2B	One	2	2	SI-179-H009			99-2524	support deleted
	<u> </u>				SI-179-H011			99-2171	<u> </u>
		Two	3	3	SI-175-H021		<u> </u>	VT-02-315	
					SI-175-H022			VT-02-317	l
					SI-175-H023			VT-03-534	
	27 PZR Spray 1A	One	9	9	RC-062-H026			99-2153	
· -				I	RC-062-H027			99-2203	
		 -			RC-062-H028		1	99-2155	
	 	- 			RC-062-H029			99-2156	support deleted
	 			 	RC-062-H030		} 	99-2157	
	 	-		 	RC-062-H031		 	99-2158	support deleted
	 			 	RC-062-H031		 	99-2159	oupport deleted
	ļ			 -			 		
	 			<u> </u>	RC-062-H033		 	99-2504	<u> </u>
	<u> </u>			 	RC-062-H034			99-2160	support deleted
	<u> </u>	Two	8	8	RC-016-H005		<u> </u>	VT-02-344	
					RC-016-H006			VT-02-345	
		1			RC-016-H007			VT-02-346	
	 	1		i	RC-016-H015		1	VT-02-347	Ĭ
				 					
)	IRC-062-H035		ł	IV I-U2-348	ł
				 	RC-062-H035 RC-062-H036		 	VT-02-348 VT-02-349	

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
1.10		1			RC-062-H038			VT-02-351	
	28 PZR Spray 1B	One	8	8	RC-017-H024			99-2144	
	 	1	 		RC-017-H034	-		99-2145	
	 				RC-017-H036			99-2146	
	 			 	RC-017-H038			99-2147	
	 		 	 	RC-017-H039			99-2148	support deleted
	 		 	 		 ,			support deleted
	 	- -	 	<u> </u>	RC-017-H040		 _	99-2149	<u> </u>
	<u> </u>	 	 	 	RC-017-H041			99-2150	support deleted
	<u> </u>		<u> </u>		RC-017-H042	 -	<u></u>	99-2503	
	<u> </u>	Two	8	8	RC-017-H043			VT-02-379	
		<u> </u>	Ĺ	l	RC-017-H044			VT-02-381	
					RC-017-H045			VT-02-380	
					RC-017-H046			VT-02-382	
	 			·	RC-018-H009			VT-02-383	
	 	 		 	RC-018-H010			VT-02-384	
	 		 	 	RC-018-H011			VT-02-385	
	 		 	 	RC-018-H012			VT-02-383	
	00.070.0	-	<u> </u>	 					
	29 PZR Spray	One	2	2	RC-018-H016			00-2090	ļ <u></u>
	ļ <u> </u>	4		<u> </u>	RC-018-H018			00-2091	
		Two	1	1	RC-018-H017			VT-02-411	
	32 Drain 1A	One	2	2	RC-060-H00A			99-2031	support deleted
	Y				RC-060-H00B			99-2127	support deleted
	33 Drain 1B	Two	2	2	RC-058-H00A	 		VT-02-309	
		1		 -	RC-058-H00B			VT-02-310	
	34 Drain 2A	Two	2	2	RC-096-H00A			VT-02-318	
	34 Diam ZA	1 WO							
	 	+		<u> </u>	RC-096-H00B			VT-02-319	
	36 Letdown	One	9	9	RC-091-H001			99-2204	
				1	RC-091-H005		l	99-2197	<u></u>
			l		RC-091-H006		l	99-2255	
					RC-091-H00B			99-2206	support deleted
		1			RC-091-H00D			99-2207	
	 	 		 	RC-091-H00E			99-2199	support deleted
	 	1	$\vdash \vdash$	 -	RC-091-H00Y			99-2208	100,000
	 	 	 	 	RC-091-H00Z			99-2205	
	·}		 -	 					}
			 -	!	RC-091-H0AA			99-2209	
	.		<u> </u>	<u> </u>	RC-091-H0AK			99-2210	
	<u> </u>	Two	10	10	RC-091-H002			VT-02-372	<u> </u>
			.		RC-091-H006			VT-02-019	
				1	RC-091-H00P			VT-02-376	1
					RC-091-H00Q			VT-02-377	
		1	 		RC-091-H00R			VT-03-476	
	 	 		 -	RC-091-H00S			VT-03-497	
	 	-{	 	 	RC-091-H005			VT-03-498	
	 		 	 				VT-03-498	
	 			 	RC-091-H0AJ		 		
	 	 		 	RC-091-H0AP			VT-02-374	
	<u></u>				RC-091-H0AQ			VT-02-375	<u> </u>
	37 Charging	One	14	14	CH-005-H002			99-2376	support deleted
					CH-005-H003			99-2377	
	1		Г <u> </u>	I	CH-005-H007			99-2378	Expansion
	 	1	l	<u> </u>	CH-005-H013			99-2379	Expansion
	 	1		i	CH-005-H025			99-2110	
	 	+	 	 	CH-005-H026			99-2348	support deleted
	 		 	 					- Support deleted
	 		 	 	CH-005-H027			99-2349	
	ļ	-	<u> </u>		CH-005-H028			99-2350	
	<u> </u>	J			CH-005-H030			99-2351	L
					CH-005-H034			99-2352	
				Γ – –	CH-005-H035			99-2353	T
	 	1	l — —	l — —	CH-005-H036			99-2354	
	1				, _ · · · · · · · · · · · · · · · · · ·				1
	<u> </u>	+		 	CH-005-H042			99-2111	Reject
					CH-005-H042			99-2111 99-2506	Reject Re-exam

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1,10		T			CH-005-H043			99-2380	support deleted
		1			CH-005-H044	I		99-2381	
		1			CH-005-H0AA			99-2112	support deleted
	 	Two	9	9	CH-005-H013			VT-02-330	
	 			<u> </u>	CH-005-H017			VT-02-332	
	 				CH-005-H018			VT-02-333	
	 	 			CH-005-H019	ļ		VT-02-339	
	 			 	CH-005-H020			VT-02-323	
		1			CH-003-H020			VT-02-337	Í
	 	1		[CH-005-H021	<u> </u>		VT-02-334	
		_			<u> </u>			VT-02-338	1
					CH-005-H022			VT-02-335	T
		7			CH-005-H032			VT-02-336	
	 				CH-005-H037			VT-02-331	<u> </u>
	39 HPSI A	One	4	4	SI-248-H026			99-2089	support deleted
		1		<u> </u>	SI-248-H027			99-2088	1
	 	+			SI-248-H028	 		99-2087	
		-{			SI-248-H030			99-2092	
	 	Two	5	<u> </u>				VT-02-304	
	 	1 1 WO	 	5	SI-248-H017				
	ļ			 	SI-248-H018	ļ		VT-02-305	
· · · · · ·	 	- 		<u> </u>	SI-248-H019		l	VT-02-307	
		<u> </u>			SI-248-H020]		VT-02-308	<u> </u>
	1	1		<u> </u>	SI-248-H029	 _		VT-02-306	<u> </u>
	40 HPSI B	One	3	3	SI-199-H013			00-2108	
					SI-199-H014			00-2109	
		1			SI-199-H021			00-2110	support deleted
		Two	4	4	SI-199-H015			VT-02-326	
					SI-199-H016			VT-02-327	
	 	1			SI-199-H017			VT-02-328	
	 	┪		 	SI-199-H018			VT-02-325	
1.40	3 SG1	One	1	1	3-40	<u> </u>		99-2224	
1.40	13301	Two	-		3-140	 	<u> </u>	VT-03-817	PSE
	4 SG2		1		4-140				PSE
	I	Two		1				VT-03-818	1735
	5 PZR	One	0	0	5-40	[99-2225	
	16 RCP 1A	One	2	2	16-17			99-2448	<u> </u>
	<u> </u>	<u> </u>			16-18			99-2449	<u> </u>
	<u> </u>	Two	4	4	16-12	<u>}</u>		VT-02-355	J
				L	16-13			VT-02-388	
	Ĭ				16-14			VT-02-389	
					16-15			VT-02-390	
	17 RCP 1B	One	2	2	17-17			99-2450	
	 	 			17-18			99-2451	
	 	Two	4	4	17-12			VT-02-356	
	 	1			17-13			VT-02-391	
	 	 			17-14			VT-02-392	
	 	1			17-15			VT-02-393	
	140 DCD 04	1-2-					<u> </u>		
	18 RCP 2A	One	4	4	18-12	 		99-2452	
	 	- 	ļ	<u> </u>	18-13		l	99-2453	
	<u> </u>	.J		ļ	18-14	ļ		99-2454	ļ
	<u> </u>				18-15			99-2455	
		Two	2	2	18-17			VT-02-231	
	<u> </u>					<u> </u>		VT-02-232	1
		1			18-18			VT-02-233	1
	ļ	1]		VT-02-234	1
	19 RCP 2B	One	4	4	19-12			99-2456	1
	 	1			19-13			99-2457	
	 				19-14			99-2458	
	 				19-15			99-2459	
	 	T	-	-	19-17				
		Two	2	2				VT-03-771	
		-			19-18	ļ		VT-03-772	
	[I I	Ì	·	'	1		1	•

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item		Per	Req	Comp	<u> </u>	<u> </u>	Surf		
FLYWHL	16 RCP 1A	One	4	4	Flywheel	00-2202			
	17 RCP 1B	<u> </u>	<u> </u>	!	Flywheel	00-2164			
	18 RCP 2A	 		 	Flywheel	00-2253	<u> </u>		
	19 RCP 2B	 _	<u> </u>		Flywheel	00-2254	ļ		<u> </u>
	16 RCP 1A	Two	4	4_	Flywheel	UT-02-084	ļ		
<u> </u>	17 RCP 1B	ļ		<u> </u>	Flywheel	UT-02-085	ļ		
	18 RCP 2A 19 RCP 2B	 	! -	 	Flywheel	UT-02-082			
C 1.10	41 SG1	One	1	1	Flywheel 41-3	UT-02-081 00-2292	 	<u> </u>	exam 180 - 360 deg
10 1.10	41 301	One	1 '	(50%)	141-3	00-2292	1 .		exam 160 - 360 deg
j		J	,,,,	(307.5)		00-2294			
1			ļ			00-2295	1		
		 	1	1	41-4	00-2279	·		exam 180 - 360 deg
1			(50%)	(50%)		00-2280	ļ		
}			' '			00-2281			
		1	ĺ			00-2282	[]		
		Two	0	0	41-106	UT-03-059			PSE
					41-105	UT-03-058			PSE
	68 Regen HTEXCH	Three	3	3	68-3	UT-05-015			
		Three	3	3	68-5	UT-05-017			
		Three	3	3	68-7	UT-05-019			<u> </u>
ļ	69 Letdown HTEXCH	One	50%	50%		99-2436	<u> </u>		exam 0 - 180 deg
		Three	50%	50%		UT-05-022			180° - 360°
	84 SD Cooling A	Two	50%		74-123	UT-03-107			14000
	87 SD HTEXCH B	Three	50%	_	75-78	UT-05-067	 		180° - 360°
C 1.20	41 SG1	One	(50%)	(50%)	41-5	00-2230 00-2231	1		exam 180 - 360 deg
		l	(30%)	(3078)		00-2231	1		
]		1	•	Ì		00-2233	1		
}		Two	0	0	41-107	UT-03-060	 		PSE
		Three	2	2	68-4	UT-05-016			
		1			68-6	UT-05-018			<u> </u>
C 1.30	41 SG1	One	1	1	41-1	99-2235			exam 0 - 180 deg
]		ł	(50%)	(50%)		99-2236	{		
])	}		99-2237]		
						99-2238			<u> </u>
	41 SG1	Two	0		41-104	UT-03-061			PSE
	42 SG2	Two	1	1	42-104	UT-03-062			PSE
		ļ	(50%)	(50%)	ļ]]		
<u></u>		-				117.05.040			ļ
	68 Regen HTEXCH	Three	4	4	68-1 68-2	UT-05-013	[
		 			68-8	UT-05-014 UT-05-020	 		
 		 	 	 	68-9	UT-05-020	 		
	69 Letdown HTEXCH	One	50%	50%		99-2437	 		180* - 360*
		Three	50%	50%		UT-05-023	 		180° - 360°
	84 SD Cooling A	Two	50%		74-124	UT-03-109			\
	87 SD HTEXCH B	Three	50%		75-79	UT-05-068	 		180° - 360°
C 2.21	41 SG1	One	1	1	41-16	00-2349	00-2336		
& 2.22		1.	l_	 		00-2350			<u> </u>
		Two	4	4	41-102	UT-03-063	MT-03-031	· · ·	PSE
		<u> </u>	<u> </u>			UT-03-073	<u> </u>		Inner radius
			[41-103		MT-03-032		PSE
		<u> </u>				UT-03-074	<u> </u>		Inner radius
		$\mathbb{L}^{}$			41-109	UT-03-065	MT-03-033		PSE
					41-110		MT-03-034		PSE
	42 SG2	One	1	1	42-16	00-2351	00-2337		
		<u> </u>				00-2352	<u> </u>		<u> </u>
		Two	0	0	42-100		MT-03-035		PSE
			<u> </u>		42-101	UT-03-068	MT-03-036		PSE

ASME Item	Zone Comp/Sys	insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 2.21 & 2.22					42-102	UT-03-069 UT-03-075	MT-03-037		PSE Inner radius
					42-103	UT-03-070 UT-03-076	MT-03-038		PSE Inner radius
					42-114	UT-03-071	MT-03-039 MT-03-041		PSE Inner radius RR # 8
					42-115	UT-03-072	MT-03-040 MT-03-042		PSE Inner radius RR # 8
	84 SD Cooling A	Two	1	1	74-122	UT-03-100 UT-03-113	MT-03-117		Inner radius
	87 SD HTEXCH B	Three	1	1	75-76	UT-05-066 UT-05-009	MT-05-007		Inner radius
C 3.10	41 SG1	One	1_	1	41-42		00-2176		270 deg
		Two	1	1	41-112	UT-03-077	MT-03-043		PSE
	<u> </u>				41-113	UT-03-078	MT-03-044		PSE
	68 Regen HTEXCH	Three	2	2	68-10		PT-05-001		
	<u> </u>			<u> </u>	68-11	<u> </u>	PT-05-002		
C 3.20	43 MS SG1	One	1	1	SG-036-H017		99-2325 00-2175		
		Two	1	1	SG-036-H012	1	MT-02-142		
	44 MS SG1	Two	2	2	SG-033-H015	<u> </u>	MT-02-141		
	ļ	<u> </u>		<u> </u>	SG-033-H016	<u> </u>	MT-02-143		<u> </u>
	45 MS SG2	One	1	1	SG-042-H014	<u> </u>	99-2326		ļ
	<u> </u>	Two	1_1_	1_1_	SG-042-H012	<u> </u>	MT-02-144		<u> </u>
	46 MS SG2	Two	_1_	1_1_	SG-045-H012	<u> </u>	MT-02-153		<u> </u>
	54 FW SG1	One	0	0	SG-002-H001	<u> </u>	99-2322		ļ
	55 FW SG2	One	1_	1_1_	SG-005-H001	<u> </u>	99-2323		ļ
				}	SG-005-H009		00-2300 00-2311	ı	
	62 Aux FW SG1	Two	1	1	AF-018-H001		PT-03-044		
	64 Blowdown SG1	One	3	3	SG-039-H015	1	00-2078		
	1	1			SG-039-H017		00-2079		
-		1		1	SG-053-H001	1	00-2073		support deleted
		Two	2	2	SG-039-H001		MT-02-004		1
					SG-053-H005		MT-02-003		
	<u> </u>			<u> </u>		<u> </u>	PT-02-022		<u> </u>
	65 Blodown SG2	One	2	2	SG-048-H020		00-2080		
					SG-052-H001		00-2045		support deleted
		Two	3	3	SG-048-H014		MT-03-122		
					SG-048-H016	<u> </u>	MT-02-005		
				<u> </u>	SG-048-H026	<u> </u>	MT-03-061		<u> </u>
	71 LPSI Discharge A	One	_1_	1_1_	SI-087-H011	 	99-2200		<u> </u>
	76 CS Suction	One	1	1	SI-009-H004		99-2214		96% covrg , Accept. per code case N490
	77 CS Discharge A	Three	1	1	SI-079-H007		PT-05-003		
	80 CS Discharge B	Three	1	1	SI-119-H005		PT-05-004		<u> </u>
	83 SD Cooling A	Two	2	2	SI-087-H004	<u> </u>	PT-03-043		
	<u> </u>				SI-090-H001	 _	PT-03-045		
	83 SD Cooling A	Three	2	2	SI-070-H001	ļ	PT-05-008		
	 	I		<u> </u>	SI-070-H006	<u> </u>	PT-05-009		
	86 SD Cooling B	Three	_2_	2	SI-072-H001	 	PT-05-010		
	IOR Contilling	1-2-			SI-072-H012	 	PT-05-011		
	88 East Wrap	One	1	1 1	SI-072-H013	 	99-2398		
	89 East Wrap	One	4	1 1	SI-194-H014 SI-070-H009	 	99-2272		
<u> </u>	91 West Wrap	One	4	4	}	 			
	 		 	 -	SI-070-H011	 	99-2178		
	 				SI-070-H012	 	99-2178		
<u> </u>	02.10/204.14/	+			SI-070-H016	 	99-2178		
	92 West Wrap	One	1 2	1 1	SI-241-H021	 	99-2179	<u> </u>	
L	 	Two	2	2	SI-239-H001	 	PT-03-026		
i .	1	1	l	I	SI-241-H016	1	PT-03-027		1

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item		Per	Req	Comp	1.0111.12		Surf	11000.	T tomains
C 3.20	93 West Wrap	Two	1	1	SI-089-H013	 	PT-03-047		
0 0.20	94 LPSI A	Two	2	2	SI-070-H005	 	PT-03-038		
	194 ELOLY	- 1WO		 -	SI-070-H008		PT-03-039		
	OF LOCUP	Three				 			CC N 450
	95 LPSI B	Three	1	1-1-	SI-194-H006		PT-05-014		CC N-460
	99 LPSI to Loop 2B	Two	1	1	SI-174-H013	 	PT-02-046		
	100 LPSI A Suction	One	1	1	SI-369-H001		99-2319		
		Two	1	1	84-5	ļ	PT-03-063		<u> </u>
	101 LPSI B Suction	Three	_ 1	1_1_	85-5		PT-05-015		
	102 SI Suction A	One	3	3	SI-307-H002	<u> </u>	00-2305		
					SI-307-H003		00-2378		
					SI-307-H015		00-2306		
	103 Refuel Suction A	Two	_2	2	CH-142-H020		PT-02-024		
					CH-424-H006		PT-03-052		
	104 SI Suction B	Two	1	1	SI-308-H003		PT-02-076	<u> </u>	
	105 Refuel Suction B	Three	3	3	CH-149-H002		PT-05-016		
		1000	3	3	CH-149-H008	 	PT-05-017		
	 	1	3	3	CH-425-H006	 	PT-05-018		
	113 HPSI Discharge	One	1	1	SI-107-H022	 	00-2214		
C 3.30	72 LPSI Pump A	One	3	3	72-3A	 	99-2226		
0 0.00	14 LFSI FUIIIP A	One	 		72-3A 72-3B	 	99-2226		
		-	 	 	72-3B	 	99-2226		
<u> </u>	75 1 501 5	 	 	 		 		 -	
	75 LPSI Pump B	Two	3_	3	73-3A	ļ	PT-03-035		
				<u> </u>	73-3B	<u> </u>	PT-03-036		
	<u> </u>		<u> </u>		73-3C	<u> </u>	PT-03-037		<u> </u>
	78 CS Pump A	Two	3	3	80-3A	<u> </u>	PT-03-023		<u> </u>
				<u> </u>	80-3B	<u> </u>	PT-03-024		
					80-3C	<u> </u>	PT-03-025		<u> </u>
	81 CS Pump B	Three	3	3	81-3A	i -	PT-05-005		
	81 CS Pump B	Three	3	3	81-3B		PT-05-006		
	81 CS Pump B	Three	3	3	81-3C		PT-05-007		
	116 HPSI A Pump	One	4	4	116-1A	†	00-2558		
		1			116-1B	·	00-2558		
	 	1			116-1C	i	00-2558		
			 	 	116-1D	 	00-2558		
	117 HPSI Pump B	Two	4	4	117-1A	 	PT-03-017		
	1117 HEST FULLY B	100	 -		117-1B	 -	PT-03-022		
		┦——		 		ļ			
	 	- 		 	117-1C	 	PT-03-021		ļ
					117-1D	-	PT-03-020		
C 4.40	47 MS SG1	One	20		V-170	00-2393			ļ
	48 MS SG1	One	20		V-180	00-2393			
	49 MS (East) SG2	Three	20	20	UV-171	UT-05-005			Installed
	50 MS (West) SG2	Three	20	20	UV-181	UT-05-006			Installed
	56 FW SG1	Two	20	20	V-132	UT-02-107			<u> </u>
			20	20	V-174	UT-02-108			
-	57 FW SG1	Three	20	20	V-137	UT-05-007			Installed
	1	1	20	20	V-177	UT-05-008			Installed
C 5.11	54 FW SG1	Two	1	1	54-1	RT-03-005	PT-03-056		PSE
& 5.12	 	1	- -	 	54-15	RT-03-004			PSE
55.12	 		 	 	54-20	RT-03-003			PSE
		1		 	54-6	RT-03-006			PSE
	55 FW SG2	Two	0	0	55-1	RT-03-007			PSE
	35 FVV 3GZ	1 100	 	 	55-15	RT-03-007			PSE
	 		 	 		RT-03-009		<u> </u>	PSE
	ļ	 	 	 	55-20				
ļ <u> </u>	<u> </u>	 	 	 	55-6	RT-03-008			PSE
	58 Aux & Dwncmr	Two	1	1 1	58-1	RT-03-011	PT-03-060		PSE
	FW SG1	_]	\mathbf{I}_{-}	L					
	FW SG1 59 Aux & Dwncmr	Two	5	5	59-1	RT-03-012	PT-03-061		PSE
	59 Aux & Dwncmr	Two	5	5		RT-03-012 UT-03-191			PSE PSE
		Two	5	5	59-16	UT-03-191	PT-03-054		PSE
	59 Aux & Dwncmr	Two	5	5		UT-03-191 UT-03-190	PT-03-054		

l Item	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
I ICIII	, ,	Per	Req	Comp			Surf		
C 5.11					59-34	UT-02-080	PT-02-042		
& 5.12		Three	0(3)	0(1)	59-13	UT-05-065	PT-05-033		PSE
	62 Aux FW SG1	Three	2	0	62-6	UT-05-053	i	-	
	-				62-12	UT-05-054	ii		
	-			i	62- 5	UT-05-052	1	-	
				1	62-13	UT-05-055		•	
	63 Aux & FW	One	1	1	63-4	00-2273	00-2039	- <u></u>	
]						00-2274	ļ į		
	70 & 73 LPSI	One	1	1	70-58	99-2314	99-2264		
	Suction A & B	Two	1	1	70-56	UT-02-054	PT-02-036		
	82 & 85 SD	One	2	2	72-50	99-2271	99-2126		
	Cooling A & B				73-49	00-2152	00-2153		
	83 & 86 SD	One	4	4	74-105	99-2269	99-2059		
	Cooling A & B				74-19	99-2270	99-2022		
					74-21	99-2265	99-2263		
					74-22	99-2266	99-2263		
	88 & 91 East	One	6	6	74-44	99-2184	99-2178		
	& West Wrap				76-2	99-2183	99-2178		
				1	76-21	00-2259	00-2224	<u> </u>	
				<u> </u>		00-2308			
					77-7	00-2326	00-2225		
	•			<u> </u>		00-2327			
				1	77-14	00-2260	00-2226		
i I						00-2307	, I		
						00-2325	<u> </u>		
				<u> </u>	78-16	99-2355	99-2313		<u> </u>
		Two	1	1	77-16		PT-03-029		Limited UT Exam
				<u> </u>	77-8		PT-03-028		No Credit
	94 & 95 SI A & B	One	1	1_1	74-40	00-2392	00-2345		
1 1		Two	2	2	74-37	UT-02-055	PT-02-033		1
		<u> </u>				ļ	PT-03-040		
				<u> </u>	74-38	UT-03-120	PT-03-041		<u> </u>
		Three	3	0	74-30	UT-05-056	ļ		<u> </u>
	96, 97, 98, 99 LPSI	One	3	3	78-45	99-2363	99-2077		<u> </u>
	1A,1B, 2A & 2B				78-47	99-2364	99-2077		
1 1		1		ľ	79-23	00-2309	00-2255		•
 		<u> </u>				00-2310			
L		Two	2	2	77-22	100 00 101	PT-02-047		
i I		1			⁷⁷⁻²⁷		PT-02-045		
 		 				UT-02-105	27.00.000		<u></u>
	100 & 101 LPSI	Two	2	2	70-121		PT-02-063		
 	Suction A & B			}	04.2	UT-02-128	DT 03 000		Limited LIT System
	400 01 0			-	84-3	1	PT-03-062		Limited UT Exam
[]	102 SI Suction A	One	1] 1	84-12	00-2355 00-2356	00-2340		
		7	_	-	94.26		PT-02-032		
1 1		Two	1	1	84-26	01-02-053	PT-02-032 PT-03-042		
 	102 Refuel Cuelles A			1-4	86-57	00-2430	00-2346		
j 1	103 Refuel Suction A	One	1	1	00-37	00-2430	100-2340		
 		7	4	-	86-3		PT-02-025		
├── ─	104 Cl Sudian B	Two	1	1 1	85-46	00-2390	00-2278		
	104 SI Suction B	One	'	'	05-40	00-2390	100-22/6		
 		7:::0	1	 	85-31	UT-02-101	PT-02-077		
		Two	l '	1	100-01	101-02-101	PT-02-077		
 	ADE Definit Custing D	 		 	197.22	00-2040	00-2048		<u> </u>
├	105 Refuel Suction B	One	1	1	87-23 87-37	UT-02-023	PT-02-023		-
C 5 24	106 8 107 HDC1	Two	1 4	1 4	106-1	00-2485	00-2263		
C 5.21 & 5.22	106 & 107 HPSI	One	"	"	1,00-1	00-2487	30-2203		
<u></u>		 		 	106-21	00-2481	00-2264		
1 1				-	•				_

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item C 5.21		Per	Req	Comp		100 0040	Surf	·	
& 5.22					107-11	00-2242 00-2243	00-2081		<u></u>
					107-42	00-2514 00-2515	00-2082		
		Two	4	4	106-64	UT-03-124	PT-03-032		Limited UT Exam
					106-68	UT-03-125	PT-03-033		Limited UT Exam
					107-1	UT-03-097	PT-03-018		Limited UT Exam
					107-22	UT-03-099	PT-03-019		
	108 & 109 HPSI	One	2	2	109-4	00-2489	00-2396		
					109-21	00-2486 00-2488	00-2395		
	110 & 111 HPSI	One	2	2	110-6	00-2291	00-2222		
					110-39	00-2333	00-2223		
				ļ		00-2388			
		Two	2	2	110-17	UT-03-122	PT-03-030		Limited UT Exam
					110-52	UT-03-121	PT-03-031		Limited UT Exam
	112 & 113 HPSI	One	3	3	112-1	00-2165	00-2154		
					112-33	00-2166	00-2154		
					112-45	00-2167	00-2154		
l	114 & 115 HPSI	One	1	1 ,	115-13	00-2334 00-2389	00-2256		
		Two	1	1	115-20	UT-02-014	PT-02-021		
	118 & 119 HPSI Recirc	Two	3	3	118-49	UT-02-017 UT-02-018	PT-02-018		
					119-52	UT-02-009 UT-02-012	PT-02-015		
					119-53	UT-03-123	PT-03-034		Limited UT Exam
C 5.30	106 & 107 HPSI	One	1	1	107-53		00-2092		
		Two	1	1	106-61	<u> </u>	PT-02-031		
C 5.41 & 5.42	82 & 85 SD Cooling A & B	One	1	1	72-49A		99-2067		
	88 & 91 East & West Wrap	One	1	1	74-102		99-2178		,
	96 - 99 LPSI 1A,1B, 2A & 2B	Two	1	1	76-79		PT-02-075		
C 5.51	43 MS SG1	One	1	1	43-2	99-2370	99-2312		
& 5.52	44 MS SG1	One	1	1	44-1	99-2369	99-2310		<u> </u>
		Two	2	2	44-5	UT-02-060	PT-02-140 MT-03-119		
			-		44-30	UT-02-043	MT-02-015		
							MT-03-100		
	45 MS SG2	Two	0	0	45-2		MT-03-128		
	46 MS SG2	One	1	1	46-25	99-2371	99-2311		
		Two	1	1	46-2		MT-03-129		
	54 FW SG1	One	1	1	54-41	00-2434	00-2261		<u></u>
	<u> </u>	Two	1	1	54-100		MT-03-045		PSE
					54-107		MT-03-046		PSE
	55 574 500			<u> </u>	54-11A		MT-02-001		
	55 FW SG2	One	2	2	55-1	00-2074	00-2044		
ļ <u> </u>					55-15	00-2075	00-2044		Det
	ļ	Two	1_	1 '	55-100		MT-03-047		PSE
					55-107 55-26	-} _	MT-03-048		PSE
	EQ Aury & Divisions	0	1/5\	4/5\	55-26	UT-02-041	MT-02-002		O Identifies sugment France
	58 Aux & Dwncmr	One	1(5)	1(5)	41-39	99-2393	99-2198		() Identifies augment Exam
	FW SG1				58-1 58-12	99-2392	99-2198 99-2023		(IEB 079-13 & SER 83-07)
		<u> </u>			58-12 58-13	99-2128 99-2129	99-2023		
	}				58-16	99-2129	99-2023		
					58-16A	99-2131	99-2023		
		Two	0(4)	0(4)	41-111	UT-03-083	MT-03-049		PSE
	l	. 770	U(7)	_ <u></u>	717111	101-00-003	1.111-00-043		<u> ,, </u>

ASME Item	Zone Comp/Sys	Insp Per	Amt Reg	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 5.51					58-12	UT-02-077	MT-02-146		
& 5.52		1			58-13		MT-02-134		
· ·	<u> </u>				58-16		MT-02-135		
		1			58-16A		MT-02-136		
f	59 Aux &	One	0(5)	0(5)	59-1	99-2391	99-2192		[
	Dwncmr FW SG2	1			59-12	99-2132	99-2024		
<u> </u>		 			59-13	99-2133	99-2024		
		1			59-16	99-2134	99-2025		
		1			59-16A	99-2135	99-2024		
		Two	1(2)	1(2)	59-12		MT-02-147		
		1	,-,		59-13		MT-02-137		
	 	†			59-16		MT-02-138		
	 	1			59-16A		MT-02-139		
		1			59-25		MT-03-060		
	64 Blowdown SG1	One	1	1	64-30	00-2347	00-2338		
		Two	1	1	64-1		MT-03-137		PSE
 		1	<u> </u>	 -	64-30		MT-03-139		PSE
		 			64-80		MT-03-130		PSE
	65 Blowdown SG2 .	One	1	1	65-28	00-2348	00-2339		. 02
		Two	1		65-1		MT-03-140		PSE
			<u>-</u> -	- -	65-28		MT-03-143		PSE
	 	 			65-52	1	MT-02-145		1.02
C 6.10	116 & 117 HPSI	Interval	4	2	116-2	10.02.102	00-2557		
00.10	1110 4 117 111 01	1			117-1	 	PT-03-016		
C6.20	49 MS (East) SG2	Three	1	1	PSV-554	 	MT-05-005		
CO.20	43 M3 (Last) 302	Timee	<u>:</u> _		PSV-556	 	MT-05-006		
 	86 SD Cooling B	Three	1	1	V-464	 	PT-05-012		
<u> </u>	89 East Wrap	Three	1	1	UV-656	 	PT-05-013		
 -	106 HPSI A	Three	1	1	V-404	 	PT-05-019		CC N-460
	107 HPSI B	Three	1	1	V-478	 	PT-05-020		301/400
C 7 10						 	1 1-00-020	*	* 00-2041 00-2042 00-2138
C 7.10 thru C 7.70	Piping Systems	One	all	all	Press		7-03-020		* 00-2041, 00-2042, 00-2138, 00-2140, 00-2141, 00-2142, 00-2143, 00-2146, 00-2147, 00-2148, 00-2148, 00-2149, 00-2151, 00-2157, 00-2160, 00-2161, 00-2162, 00-2163, 00-2284, 00-2285, 00-2442, 00-2548, 00-2549, 00-2550, 00-2555, 00-2563, 00-2564, 00-2565, 00-2566, 00-2569, 00-2570, 00-2571, 00-2572, 00-2575, 01-2037 01-2050 01-2038 01-2036 01-2032 01-2022 01-2018 01-2017 01-2016 01-2012 01-2003 01-2002 01-2001

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item		Per	Req	Comp			Surf		
C 7.10		Two	all	all	Press	1		•	* VT-02-409 VT-03-438
thru C 7.70		i !		ĺ		ſ	ĺ	1	VT-03-439 VT-03-440
U 7.70				l	ł		ł	i	VT-03-443 VT-03-444
		<u> </u>		1]	,			VT-03-445 VT-03-447 VT-03-462 VT-03-466
ļ				1				İ	VT-03-462 VT-03-466 VT-03-467 VT-03-468
		[(•	Ĭ	ſ	VT-03-499 VT-03-500
ì		1		ł		ł ·	ì	ł	VT-03-501 VT-03-503
j		j] .]	J		j	VT-03-504 VT-03-505
						<u> </u>		ŀ	VT-03-506 VT-03-507
i i		S		[[1	[VT-03-508 VT-03-509
1		l		1		ł		ł	VT-03-551 VT-03-552
, ,		1				Ì]	VT-03-553 VT-03-554
					Ì	Ì	ļ	ļ	VT-03-556 VT-03-557
	•	i i		[[[ĺ	VT-03-630 VT-03-631
1 1		1	1	ł		1		ł	VT-03-632 VT-03-633
)				ļ])	VT-03-645 VT-03-646
		i l		l '				ļ	VT-03-700 VT-03-782 VT-03-783 VT-03-784
i '		[[[[ĺ	[VT-03-783 VT-03-784 VT-03-787 VT-03-789
				ľ	1	{	Į.	ł	VT-03-790 VT-03-803
						Į į	ļ)	VT-03-806 VT-03-807
									VT-03-808 VT-03-809
[1		[[[[VT-03-810 VT-03-812
1 1		!				ł į	ı.	ł	VT-03-813 VT-03-814
] :)		Į	1	}	VT-03-816 VT-03-851
ł				·			ļ	ļ	VT-03-852 VT-03-853
[1				{	[[VT-03-854 VT-03-855
l l		1		ľ		{		<u> </u>	VT-03-861 VT-03-866
] :		}			ļ]	1	VT-03-867 VT-03-868
]]			'	ļ	VT-03-870 thru VT-03-878
1						<u> </u>	1	1	
F 1.20	41 SG1	One	2	2	41-41			00-2323	
& 1.40					41-42	1		00-2323	
<u> </u>			السيا			ļ		00-2185	
ļ		Two	0	0	41-41	ļ	<u> </u>	VT-03-836	PSE, Insulated
ļ	10.000	ļ <u>. </u>			41-42	 		VT-03-837	PSE, Insulated
	42 SG2	Two	2	2	42-41	 	<u> </u>	VT-03-838	PSE, Insulated
	10 MC CO1	 _	<u> </u>		42-42	 		VT-03-839	PSE, Insulated
ļ	43 MS SG1	One	3	3	SG-036-H017 SG-036-H884	 	 	00-2177 00-2178	
 	 	 			SG-036-H885	 	ļ	00-2178	
 	 	Two	2	2	SG-036-H011	 	 	VT-03-825	
 		1 1 1 1		 -	SG-036-H012	 	 	VT-03-825	
 		Three	1	1	SG-036-H011	 			Rej, RR #4
		1		- 	SG-036-H011	 			Re-exam / PSE
 		1		 	SG-036-H012		 -		Expansion, Snubber Deleted
						<u> </u>		<u> </u>	
					SG-036-H016	ļ	ļ		Expansion, RR #4
		 			SG-036-H017	ļ	 		Expansion, RR #4
ļĪ		 			SG-036-H884	ļ	ļ	VT-05-525	Expansion, RR #4
<u> </u>		 		 _	SG-036-H885	 _	 	VT-05-526	Expansion, RR #4
]	44 MS SG1	One	2	2	SG-033-H017	 	 	00-2180	l
ļ		 -	<u> </u>	<u> </u>	SG-033-H018	 	ļ	00-2181	support deleted
		Two	4	4	SG-033-H011			VT-03-826	
 		 		 	SG-033-H015	 	 	VT-02-396	
<u> </u>		ļ		<u> </u>	SG-033-H016	 	ļ	VT-02-397	<u> </u>
		 	ļ	 	SG-033-H881	 	ļ	VT-02-275	
, 1	ł	1		ł	SG-033-H882	1	ł	VT-02-274	1
						,			
		Three	2	1	SG-033-H011 SG-033-H011			VT-05-527 VT-05-579	Expansion, RR #4 PSE

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20 & 1.40					SG-033-H015			VT-05-528	Expansion, Snubber Deleted
	i	1			SG-033-H016		 	VT-05-529	Expansion, RR #4
					SG-033-H017			VT-05-530	Rej, RR #4
		1			SG-033-H017		i	VT-05-580	Re-exam / PSE
					SG-033-H018			VT-05-531	Expansion, Snubber Deleted
					SG-033-H881			VT-05-532	Expansion, RR #4
					SG-033-H882	•	1	VT-05-533	Expansion, RR #4
	45 MS SG2	One	1	1	SG-042-H014		ļ	00-2182	support deleted
		Two	3		SG-042-H011		 	VT-03-510	
	 			<u> </u>	SG-042-H012		ļ	VT-02-277	
	 			<u> </u>	SG-042-H013		<u> </u>	VT-02-276	
	<u></u>	Three	5	1_1_	SG-042-H011		 	VT-05-534	Expansion, RR #4
	46 MS SG2		-	 	SG-042-H011			VT-05-581	PSE
	46 MS SG2	One	2	2	SG-045-H017			00-2183 00-2551	
					SG-045-H018			00-2184 00-2552	support deleted
	 	Two	4	4	SG-045-H011		1	VT-03-511	
					SG-045-H012			VT-02-354	1
					SG-045-H887			VT-02-259	
					SG-045-H888			VT-02-256	
		Three	5	2	SG-045-H011		1	VT-05-535	Expansion, RR #4
					SG-045-H011			VT-05-582	PSE
					SG-045-H012			VT-05-536	Expansion, Snubber Deleted
		1			SG-045-H016			VT-05-537	Expansion, RR #4
		1			SG-045-H017			VT-05-538	Expansion, RR #4
					SG-045-H017			VT-05-583	PSE
	47 MS SG1	One	1	1	SG-206-H001			99-2336	
	48 MS SG1	Two	1	1	SG-207-H001			VT-03-685	
	49 MS (East) SG2	Three	1	1	SG-208-H001			VT-05-034	
	50 MS (West) SG2 .	Three	1	1	SG-209-H001			VT-05-035	
	51 Atmos	One	1	1	SG-059-H006			99-2090	
	Dump SG1	Two	1	1	SG-070-H006		I	VT-03-522	
	52 Atmos Dump SG2	Three	2	1	SG-084-H006			VT-05-036	
	53 Steam to	One	4	4	SG-081-H001			99-2072	
	Aux FW				SG-081-H002			99-2073	
	j	1			SG-083-H001		1	99-2074	
		1			SG-083-H002	**	<u> </u>	99-2075	1
		Two	2	2	SG-081-H004]	VT-02-089	
					SG-083-H004			VT-02-090	
		Three	2	2	SG-081-H003			VT-05-037	
	İ	1			SG-083-H003			VT-05-038	1
	54 FW SG1	One	7	7	SG-002-H004			00-2312	
					SG-002-H005			00-2313	
					SG-002-H012			00-2562	
					SG-002-H013			00-2314	
					SG-002-H014			00-2315	
					SG-002-H015			00-2316	
					SG-002-H803			00-2540	J
		Two	7	7	SG-002-H009			VT-03-520	
					SG-002-H010			VT-03-517	
					SG-002-H011			VT-02-008	
								VT-02-011	
					SG-002-H806			VT-03-518	
					SG-002-H811		<u> </u>	VT-03-519	
					SG-013-H001			VT-03-515	
	ı — — — — 			I	SG-013-H802		1	VT-03-516	

ASME Item	Zone Comp/Sys	Insp	Amt Reg	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	F4 F141 CO4				Ll		Suit	1 - 0 - 000	
F 1.20	54 FW SG1	Three	6 .	1_1_	SG-002-H002			VT-05-539	Expansion
& 1.40	<u> </u>			 	SG-002-H012			VT-05-540	Expansion
		 		<u> </u>	SG-013-H001			VT-05-541	Expansion
ļ	55 FW SG2	One	9	9	SG-005-H009	- · · · · · · · · · · · · · · · · · · ·		00-2297	<u></u>
	<u> </u>				SG-005-H010			00-2298	
				<u> </u>	SG-005-H011			00-2299	
					SG-005-H012			00-2541	
					SG-005-H805			00-2542	
	1				SG-005-H809			00-2545	
					SG-005-H812			00-2361	
	 	1			SG-014-H001			00-2543	
		1		 	SG-014-H804			00-2544	
	 	Two	7	7	SG-005-H004			VT-02-246	
1	1	,	•	1				VT-02-247	}
	 	 			SG-005-H005			VT-02-248	
!	ļ			 -	SG-005-H006				
	}]]		ļ	36-003-0000]		VT-02-253	
	 							VT-02-249	<u> </u>
	{			[SG-005-H007			VT-02-250	1
 		 -		 				VT-02-254	
	<u> </u>				SG-005-H008		· · · · · · · · · · · · · · · · · · ·	VT-02-272	{
	<u> </u>			 	SG-005-H013			VT-02-273	
) 1		j	SG-005-H014	J		VT-02-255	1
				ļ	·			VT-02-251	
	56 FW SG1	Two	1	1	SG-202-H001			VT-03-626	
	57 FW SG1	Three	1	1	SG-205-H002			VT-05-039	i
·	58 Aux &	One	7	7	SG-008-H002			00-2317	i
	Dwncmr SG1	1			SG-008-H003			00-2318	
		1			SG-008-H004			00-2319	
	 	 		 	SG-008-H005			00-2320	
	 	1		 -	SG-008-H020			00-2321	
	 		<u> </u>	 	SG-008-H901			00-2321	
	ļ	 		 -				00-2437	
	ļ			 _	SG-008-H903				
	 	Two	7	7	SG-008-H006			VT-02-340	
i	ļ)		}	SG-008-H007			VT-02-343	ļ
J	ļ	<u> </u>		<u> </u>				VT-02-341	
	<u></u>				SG-008-H008			VT-02-205	
	İ	1 !		į .	SG-008-H009	1		VT-02-208	(
	<u> </u>				ļI			VT-02-206	<u></u>
1	ł ·	1 1	Ì	1	SG-008-H010			VT-02-207	4
	ļ	1		ł	}			VT-02-212	ł
)						VT-03-521	
				1	SG-008-H011			VT-02-209	1
i '	l	1	L	<u>l</u>	<u> </u>			VT-03-549	
		1		1	SG-008-H017			VT-02-342	1
1	1	1	l	i	į l			VT-03-550	
l	58 Aux & Dwncmr	Three	8	1	SG-008-H004			VT-05-542	Expansion
	FW SG1	1	— <u> </u>	 	SG-008-H011			VT-05-543	Expansion
	 	1		 	SG-008-H015			VT-05-544	Expansion
	59 Aux &	One	6	6	AF-006-H001			99-2137	
 	Dwncmr FW SG2	 5	┝┷	 	SG-011-H004			99-2507	Expansion
 	15 MIGHT 1 44 905	1		 	SG-011-H008			99-2040	- Apariologi
 	 			 			 	99-2040	
 	 				SG-011-H009		ļ		
 	 	4		 	SG-011-H010			99-2042	Baiont
j '		j j	l]	SG-011-H011			99-2043	Reject
L	<u> </u>	4	<u> </u>	 	<u> </u>			99-2508	Re-exam
	<u> </u>				SG-011-H012			99-2044	[
				<u> </u>	SG-011-H016			99-2509	Expansion
		Two	6	6	SG-011-H013			VT-02-353	
L	L			<u> </u>					
		1			SG-011-H014			VT-02-214	
					SG-011-H014			VT-02-214 VT-02-213	

ASUE	7 0		A	A				T 16 1	r
ASME Item	Zone Comp/Sys	Insp Per	Amt Reg	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	 	 		<u> </u>	SG-011-H016			VT-02-204	
& 1.40		+		 	SG-011-H018			VT-02-352	
		 			SG-011-H019			VT-02-211	
	60 Dwncmr FW SG1	One	1	1	SG-200-H009			99-2086	
		1			SG-200-H013			99-2521	PSE
	 	 			SG-200-H014			99-2483	PSE
		Three	2	2	SG-200-H009			VT-05-040	
					SG-200-H013			VT-05-041	
		1			SG-200-H014			VT-05-042	
	61 Dwncmr FW SG2	One	0	0	SG-203-H013			99-2519	PSE
					SG-203-H014			99-2520	PSE
		Two	2	2	SG-203-H013			VT-03-781	
					SG-203-H014			VT-03-774	
		Three	1	1	SG-203-H008			VT-05-043	
	62 Aux FW SG1	One	1	1	AF-004-H003			99-2136	
		Two	1	1	AF-018-H001			VT-03-775	
		Three	2	2	AF-018-H002			VT-05-044	
					AF-018-H003			VT-05-045	
	63 Aux FW SG2	One	2	2	AF-006-H002			99-2138	
	<u> </u>				AF-016-H001			99-2139	
		Two	2	_2_	AF-006-H003			VT-03-776	
	<u> </u>				AF-006-H005			VT-03-777	
		Three	_1_	1	AF-006-H004			VT-05-046	<u> </u>
	64 Blowdown SG1	One	12	12	SG-039-H010			00-2049	
	ļ	-			SG-039-H011			00-2050	support deleted
		ļ		 	SG-039-H012			00-2051	
	<u> </u>	ļ		 	SG-039-H013			00-2052	support deleted
	<u> </u>	ļ			SG-039-H014			00-2063	support deleted
	<u></u>	 -			SG-039-H015			00-2064	
	<u> </u>			[<u> </u>	SG-039-H016			00-2065	
				<u> </u>	SG-039-H017			00-2053	support deleted
					SG-039-H026			00-2054	
		 		 -	SG-053-H001			00-2071	support deleted
		 		 	SG-053-H002			00-2072	support deleted
				 	SG-053-H007 SG-053-H924		<u>-</u>	99-2161	support deleted
		Two	13	13	SG-039-H001			VT-02-003	
		I IWO	13	3-	SG-039-H002			VT-02-003	
	 	 		 	SG-039-H003		-	VT-02-032	
		 -		 	SG-039-H004			VT-02-033	
	 	1		 	SG-039-H005			VT-02-034	
	 			 	SG-039-H006			VT-02-035	
	<u> </u>			 	SG-039-H027		 -	VT-02-036	
	 	 			SG-039-H038				PSE
	 	 			SG-039-H922			VT-03-821	
		1			SG-053-H003			VT-02-041	
		1		 	SG-053-H004			VT-02-042	
		1			SG-053-H005			VT-02-043	
		1			SG-053-H006			VT-02-044	i
	 	1			SG-053-H007		 -	VT-02-045	j
	 	1			SG-522-H001			VT-03-822	PSE
		1			SG-522-H002			VT-03-834	PSE
	 	Three	5	0	SG-522-H002			VT-05-545	Expansion
	65 Blowdown SG2	One	12	12	SG-048-H002			00-2066	support deleted
	 				SG-048-H003			00-2055	support deleted
	 	1			SG-048-H004			00-2056	
		1			SG-048-H019			00-2057	support deleted
	1	1			SG-048-H020			00-2058	support deleted
	 				SG-048-H021			00-2059	I
					SG-048-H925			00-2060	1
					SG-052-H001			00-2067	support deleted

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	<u> </u>				SG-052-H002			00-2068	support deleted
§ 1.40	 				SG-052-H003			00-2069	support deleted
		 		 	SG-052-H004			00-2070	
	 	 			SG-052-H923			00-2061	
		Two	11	11	SG-048-H013			VT-02-025	
	 	100							
					SG-048-H014			VT-02-024	
	ļ	<u> </u>			SG-048-H015			VT-02-023	ļ
	<u> </u>				SG-048-H016			VT-02-026	
	L			<u> </u>	SG-048-H017		<u> </u>	VT-02-027	
		li		l	SG-048-H018			VT-02-022	
					SG-048-H022			VT-02-021	
	1				SG-048-H023			VT-02-028	
					SG-048-H024			VT-02-031	
					SG-048-H025			VT-02-030	
	 				SG-048-H026			VT-02-029	
					SG-523-H001				PSE
	}	 		 	SG-523-H002				PSE
		 -		 					
	 	 -		<u> </u>	SG-523-H003			VT-03-827	PSE
		<u></u> _		ļ	SG-523-H004			VT-03-824	PSE
	68 Regen HTEXCH	Three	2	2_	68-10			VT-05-047	
					68-11			VT-05-048	
	70 LPSI Suction A	One	1	1	SI-067-H004			99-2223	
		Three	4	4	SI-241-H020		·	VT-05-049	RR #4
				i	SI-241-H022			VT-05-050	Snubber deleted
	 	1			SI-307-H016			VT-05-051	RR #4
		 		 	SI-307-H017		 	VT-05-052	RR #4
	74 LDSI Disebares A		4	 _ -	SI-087-H011			99-2039	KK #4
	71 LPSI Discharge A	One	1_	1_1_					
	!	Two	5	5	SI-078-H001			VT-02-053	
	<u> </u>				SI-078-H002			VT-02-052	<u> </u>
	<u> </u>				S1-087-H001			VT-02-051	<u> </u>
					SI-087-H002			VT-02-050	1
					SI-087-H003		i	VT-02-049	
	1	Three	1	1	SI-078-H003			VT-05-053	1
	72 LPSI PUMP A	One	3	3	72-3A			99-2482	
		1		<u> </u>	72-3B			99-2482	
		1		 	72-3C			99-2482	
	73 LPSI B Suction	Two	1	1	SI-308-H014			VT-02-289	
	73 LF31 B Suction	+	4	4	SI-034-H004				RR #4
	 	Three	4	 			 		
		 		<u> </u>	SI-194-H001		ļ	VT-05-055	
	ļ	<u> </u>			SI-308-H012		[RR #4
	J	1			SI-308-H013		<u> </u>		RR #4
	74 LPSI B	Three	6_	6	SI-129-H001		<u> </u>	VT-05-058	RR #4
	Discharge	1		-	SI-129-H002			VT-05-059	Y _
		1			SI-129-H003			VT-05-060	RR #4
	<u> </u>	1		t	SI-129-H004			VT-05-061	RR #4
	 	1		 	SI-129-H005		l		RR #4
	 	 	 	 	SI-129-H006		 	VT-05-063	RR #4
	75 LPSI Pump B	Two	3	3	73-3A		 	VT-03-647	I WANT
	75 LPSI Pump B	100		 			ļ		
	ļ	! -		<u> </u>	73-3B		ļ	VT-03-648	
	ļ	<u> </u>			73-3C		ļ	VT-03-649	
	76 CS Suction A	One	1_	1_1_	SI-009-H004	L		99-2195	<u> </u>
	<u> </u>	Three	3	3	SI-067-H001			VT-05-064	RR #4
					SI-067-H002			VT-05-065	RR #4
	T			1	SI-067-H003		1	VT-05-066	RR #4
	77 CS Discharge A	Опе	4	4	SI-079-H001			99-2169	1
	1	1		 	SI-079-H002		l	99-2101	
	 	1	 	 	SI-079-H002		 	99-2102	
	 	1	 	 			 		
	 	 	<u> </u>	 	SI-079-H004		 	99-2170	la culate d
	<u> </u>	Two	3_	3_	SI-079-H005	ļ <u> </u>	<u> </u>	VT-03-654	Insulated
	<u> </u>				SI-079-H006		ļ	VT-03-665	Insulated
					SI-082-H002		•	VT-03-666	Insulated

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20		Three	3	3	SI-079-H007			VT-05-067	RR #4
& 1.40		1			SI-079-H008			VT-05-068	RR #4
					SI-079-H009			VT-05-069	RR #4
	78 CS Pump A	Two	3	3	80-3A			VT-03-627	
					80-3B			VT-03-628	
					80-3C			VT-03-589	
		'		l				VT-03-629	
	79 CS Suction B	One	3	3	SI-034-H001			99-2162	
		1			SI-034-H002			99-2163	
		+		<u> </u>	SI-034-H003			99-2164	
		Two	1	1	SI-033-H004			VT-03-600	Insulated
		Three	2	2	SI-034-H005			VT-05-070	
	 	1	<u> </u>	 	SI-034-H006			VT-05-071	
	80 CS Discharge B	One	3	3	SI-119-H007			99-2267	
	DO CO Discharge D	1 000	_ -	 -	SI-119-H008			99-2262	
				 -	SI-119-H009			99-2268	
		Tura	4		SI-119-H009		ļ. .		
		Two		4_			ļ	01-2004	Insulated
	}			 	SI-119-H002			VT-03-591	
<u> </u>				 	SI-119-H003			VT-03-605	Insulated
	 	- 		 	SI-119-H004			VT-03-599	Insulated
	<u> </u>	Three	3	3	SI-119-H005			VT-05-072	
					SI-119-H006			VT-05-073	
	<u> </u>	1			SI-147-H001			VT-05-074	<u> </u>
	81 CS Pump B	Three	3	3	81-3A			VT-05-075	<u> </u>
					81-3B			VT-05-076	
					81-3C			VT-05-077	
	82 SD Cooling A	One	2	2	SI-078-H005			99-2093	
					SI-079-H010			99-2096	Ĭ
	i	Three	1	1	SI-078-H004			VT-05-078	RR #4
	83 SD Cooling A	One	4	4	SI-087-H009			99-2095	
		- 			SI-089-H001			99-2085	<u> </u>
		 			SI-089-H002			99-2098	
					SI-089-H003			99-2097	
	 	Two	3	3	SI-087-H004			VT-03-634	
	 	1	⊢∸	- <u>-</u> -	SI-090-H001		ļ	VT-03-635	
	 			 	SI-090-H002			VT-03-636	
		Three	12	12	SI-070-H001			VT-05-079	RR #4
 		1111166	-12	 - '- -	SI-070-H002			VT-05-080	RR #4
		 -	 	 	SI-070-H003			VT-05-081	
								VT-05-081	INK #4
	<u> </u>		<u> </u>	 	SI-070-H006				DD #4
				 	SI-070-H007		 	VT-05-083	RR #4
				 	SI-082-H001		 -	VT-05-084	*·
	ļ	 	 	 	SI-087-H005	<u></u>	 		RR #4
	<u> </u>		 	 	SI-087-H006		ļ		RR #4
			ļ		SI-087-H007		ļ		RR #4
	 			 	SI-087-H008		 	VT-05-088	RR #4
	<u> </u>		 		SI-089-H005		!	VT-05-089	RR #4
		<u> </u>		<u> </u>	SI-090-H004			VT-05-090	RR #4
	85 SD Cooling B	One	3	3	SI-119-H010			99-2185	
					SI-123-H006		l	99-2186	
					SI-123-H007			99-2187	
	i	Two	6	6	SI-119-H011		l	VT-03-593	
	 	1		1	SI-119-H013		1	VT-03-595	T T
		1		1	SI-119-H014		l	VT-03-596	
		 	 	1	SI-123-H002		 	VT-03-601	Insulated
	 	1		 	SI-123-H005			VT-03-602	Insulated
	 	 -	 	 	SI-123-H008			VT-03-603	Insulated
 	 	Three	1	1-1-	SI-123-H001		 	VT-04-322	PSE
ļ	 	111166	- '-	 	31-120-17001			1 1-04-322	
 	 	 	 -	 			 	 	ļ
]	ļ	 	} -	 	 		}	}	
	l			<u></u>	L	L	l		<u> </u>

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
1.20	86 SD Cooling B	One	3	3	SI-129-H010			99-2188	
& 1.40					SI-129-H011			99-2189	
					SI-129-H012			99-2190 99-2530	
		Two	7	7	SI-072-H005			VT-03-620	Insulated
				f	SI-072-H006			VT-03-621	Insulated
				 	SI-129-H007			VT-03-624	Insulated
								VT-03-699	Insulated
					SI-129-H008			VT-03-696	Insulated
					SI-129-H012			01-2005	<u></u>
					SI-135-H001				Insulated
	<u> </u>	-		<u> </u>	SI-135-H002			VT-03-623	Insulated
	<u> </u>				SI-135-H003			VT-03-625	Insulated
	<u></u>	Three	15	15	SI-072-H001			VT-05-091	RR #4
		- 		 	SI-072-H002			VT-05-092	RR #4
		- 		 	SI-072-H003 SI-072-H004			VT-05-093	RR #4
				 				VT-05-094	RR #4
	 	 -		 	SI-072-H012 SI-129-H009			VT-05-095 VT-05-096	RR #4 RR #4
	 			 	SI-129-H009 SI-129-H013			VT-05-096	RR #4
				 	SI-129-1013			VT-05-098	RR #4
			 	 	SI-134-H002			VT-05-099	RR #4
				 	SI-134-H003			VT-05-100	RR #4
		-		 	SI-134-H005			VT-05-101	RR #4
		+		 -	SI-134-H006			VT-05-102	RR #4
		+		 	SI-134-H007			VT-05-103	RR #4
		+			SI-134-H008			VT-05-104	RR #4
		 			SI-147-H002			VT-05-105	RR #4
	88 East Wrap	One	8	8	SI-072-H011			99-2317	
		1		 	SI-072-H013			99-2316	
		 	 	 	SI-072-H014			99-2315	[
					SI-072-H021			00-2186	
	l	 		 	SI-072-H022			00-2187	
					SI-073-H001			00-2188	
		 		\vdash	SI-073-H002			00-2189	
					SI-073-H003			00-2190	
		Three	6	6	SI-072-H015			VT-05-106	RR #4
					SI-072-H016			VT-05-107	RR #4
					SI-072-H017			VT-05-108	
					SI-072-H018				RR #4
			<u> </u>	<u> </u>	SI-072-H019				RR #4
				ļ	SI-072-H020			VT-05-111	RR #4
	89 East Wrap	One	4	4	SI-194-H012			99-2275	ļ
	<u> </u>		ļ	 	SI-194-H013			99-2274	
	 	-}	 -	ļ	SI-194-H014			99-2273	Dollard.
			1	1	SI-194-H023			99-2309	Reject
	 	1.		-	01470 11004			99-2331	Re-exam
		Three	1_1_	1_1_	SI-173-H001		<u> </u>	VT-05-112	ļ
	IOO Feet Wree	Two	2	2	SI-194-H023 SI-134-H009			VT-05-113 VT-03-612	Insulated
	90 East Wrap	1 1 WO	 -	 -	SI-134-H009 SI-134-H10		 	VT-03-611	Insulated
	91 West Wrap	One	7	7	SI-070-H009		 	99-2165	moulated
	21 AACST AAIGh	Oile	 	 _' _	SI-070-H019		 	99-2166	
ř	 		 	 	SI-070-H010			99-2114	
	l	- -		 	SI-070-H011		 	99-2167	
				ı			 		
			 	1	C _070_W042				•
		-			SI-070-H013 SI-070-H015		<u> </u>	99-2115	
					SI-070-H015			99-2168	
		Turo	2	2	SI-070-H015 SI-070-H016			99-2168 99-2116	
		Two	2	2	SI-070-H015			99-2168	

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	92 West Wrap	One	5	5	SI-239-H003			99-2172	
& 1.40					SI-241-H012			99-2173	i
					SI-241-H014			99-2174	
					SI-241-H015			99-2175	
		1		1	SI-241-H021			99-2176	
		Two	5	5	SI-239-H001			VT-03-604	
	<u> </u>			f —	SI-239-H002			VT-03-606	
		1		 	SI-241-H009			VT-03-581	
	 	1			SI-241-H011			VT-03-584	
	 	+		 -	SI-241-H016			VT-03-585	Deleted
		Three	2	2	SI-002-H001			VT-05-115	Snubber Deleted
		1.1		 -	SI-002-H005			VT-05-116	Snubber Deleted
	93 West Wrap	Two	2	2	SI-089-H010			VT-03-561	Insulated
	33 West Wap	1 1 1 1 1		 -	SI-089-H013			VT-03-563	Insulated
		Thron	2	-	·				DD #4
		Three		2	SI-089-H011			VT-05-117	RR #4
	04 1 501 4			 	SI-089-H012			VT-05-118	RR #4
	94 LPSI A	One	3	3	SI-089-H007			99-2399	
				 	SI-089-H008			99-2400	
					SI-089-H009			99-2401	
	<u> </u>	Two	7	7	SI-070-H004			VT-03-655	Insulated
					SI-070-H005			VT-03-656	
					SI-070-H008			VT-03-769	
		1		{	SI-241-H006			VT-02-062	
		7		j	SI-241-H007			VT-02-061	1
		1		i	SI-241-H008			VT-02-088	
	 			i	SI-241-H017			VT-02-075	
		Three	5	5	SI-089-H006			VT-05-119	RR #4
	 	1		 	SI-241-H002			VT-05-120	RR #4
	 	1			SI-241-H003			VT-05-121	
	 			 -	SI-241-H004			VT-05-122	RR #4
	 			 	SI-241-H005			VT-05-123	RR #4
	95 LPSI B	One	6	6	SI-072-H008			99-2402	KK #4
	lao ruoi p	One	 -	 	· — — — — — — — — — — — — — — — — — — —				
	 	-		 	SI-072-H010			99-2403	
	 	- 		<u> </u>	SI-134-H011			99-2404	
	<u> </u>				SI-134-H012			99-2405	
	ļ				SI-194-H003			99-2406	support deleted
	<u> </u>				SI-194-H005			99-2407	
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	SI-194-H006		<u> </u>	99-2408	Expansion
	1	Two	10	10	SI-072-H007		Į.	VT-02-047	1
	<u> </u>			[[VT-02-059	<u> </u>
					SI-072-H009			VT-02-046	
					SI-194-H004			VT-03-663	insulated
				1	SI-194-H007			VT-03-664	Insulated
	1	1		1	SI-194-H008			VT-03-661	Insulated
	 	1		 	SI-194-H009			VT-03-671	Insulated
	}		l	ļ			ļ	VT-03-770	ļ
	 	1		1	SI-194-H010			VT-03-672	Insulated
	I		ſ	ĺ			·	VT-03-674	Insulated
	 	- 	 	 	SI-194-H011		 -	VT-03-673	Insulated
	 	1	 	}	SI-194-H015			VT-03-675	Insulated
	 		 	 	SI-194-H021		 	VT-03-662	Insulated
	 	There							IRR #4
		Three	3	3_	SI-134-H004		 		
	 	.}	 -		SI-194-H002		<u> </u>	VT-05-125	RR #4
	 			 	SI-194-H006		ļ	VT-05-126	RR #4
	96 LPSI to Loop 1A	One	3	3_	SI-202-H007		ļ	99-2467	
		J			SI-202-H008			99-2468	support deleted
			L		SI-202-H009			99-2469	support deleted
		Two	7	7	S1-202-H002			VT-03-535	
	I Total				SI-202-H003			VT-02-081	
	<u> </u>			<u> </u>					
	 	1			SI-202-H004			VT-02-080	

ASME	Zone Comp/Sys	Insp	Amt	Amt	Item ID	Vol	Reports	Visual	Remarks
Item		Per	Req	Comp			Surf	VC 00 077	18-1-1
F 1.20	<u> </u>				SI-202-H010			VT-02-077	Deleted
& 1.40	<u> </u>				SI-202-H011			VT-02-078	Deleted
 _	07 I DOI 4: 1 4D	 	-10		SI-202-H015			VT-02-082	
 	97 LPSI to Loop 1B	One	10	10	S1-220-H008			00-2438	
	ļ				SI-220-H009			99-2470	
<u> </u>				[SI-220-H010			99-2471	<u></u>
	<u> </u>	 		ļ	SI-220-H011			99-2472	support deleted
<u> </u>	<u></u>				SI-220-H012			99-2473	<u> </u>
					SI-220-H013			99-2474	
	ļ	1		l	SI-220-H014			99-2475	support deleted
	<u> </u>				SI-220-H015		·	99-2476	<u> </u>
<u> </u>	l			<u> </u>	SI-220-H019			99-2480	
	<u> </u>	<u> </u>			SI-220-H022			99-2481	support deleted
		Two	7	7	SI-220-H001			VT-02-298	
					SI-220-H016			VT-02-299	
					SI-220-H017			VT-02-300	
	1				SI-220-H018			VT-02-301	
					SI-220-H020			VT-03-536	
	1	T		I	SI-220-H021			VT-02-302	Deleted
	1	1		· ·	SI-220-H028			VT-02-303	
	98 LPSI to Loop 2A	One	2	2	SI-155-H005			99-2100	i
		1			SI-155-H006			99-2084	
	 	Two	5	5	SI-155-H001			VT-02-087	
 		1 7 1		- <u>-</u> -	SI-155-H002			VT-02-084	
 	 	1			SI-155-H003			VT-02-085	Deleted
	 	 		 -	SI-155-H004			VT-02-086	300.00
 	 	 			SI-155-H007			VT-02-083	
	99 LPSI to Loop 2B	Two	5	5	SI-174-H007			VT-02-404	Deleted
	199 EF 31 to 2000 20	1 1110	 -	- <u>-</u> -	SI-174-H008			VT-02-405	Beleted
	 	 		 	SI-174-H009			VT-02-406	Deleted
 	 				SI-174-H010			VT-02-407	Deleted
	 	 		 	SI-174-H013			VT-02-408	
 	400 LDCLA Cuellen	1-0-0-		2				99-2340	
	100 LPSI A Suction	One	2		SI-241-H019		 _	99-2341	
ļ	ļ			 	SI-369-H001				
ļ	404 1 001 0 0 1/2	Two	1	1_1_	84-5			VT-03-828	Con and an
	101 LPSI B Suction	One	0	0	SI-194-H026			99-2443	Expansion
<u> </u>	10000	Three	6_	1	85-5			VT-05-127	
	102 SI Suction A	One	6	6	SI-307-H002			00-2301	
				 	SI-307-H003			00-2302	
	 	ļ		 	SI-307-H004		<u></u>	00-2303	support deleted
		 		 	SI-307-H005			00-2258	
		 			SI-307-H008			00-2257	
		ļ			SI-307-H015			00-2304	
		Two	7	7	SI-008-H001			VT-02-055	ļ
		1		<u> </u>	SI-008-H002			VT-02-054	
		_		 _	SI-008-H003			VT-02-056	<u> </u>
					SI-008-H004			VT-02-057	
					SI-307-H006			VT-02-060	
					SI-307-H007			VT-02-063	J
					SI-307-H014			VT-02-048	
		Three	7	7	SI-008-H005			VT-05-128	RR #4
					SI-009-H001			VT-05-129	
					SI-009-H002			VT-05-130	RR #4
<u>, </u>					SI-009-H005			VT-05-131	RR #4
				I	SI-307-H009			VT-05-132	Snubber Deleted
	 				SI-307-H010			VT-05-133	RR #4
	 	1		1	SI-307-H011			VT-05-134	Snubber Deleted
	103 Refuel Suction A	One	6	6	CH-142-H013			99-2409	
		1		 	CH-142-H014		 -	99-2411	
	 	1		 	CH-142-H015			99-2412	
 	 	 		 	CH-142-H019			99-2413	
		لـــــــــــــــــــــــــــــــــــــ						122 22 1 2	

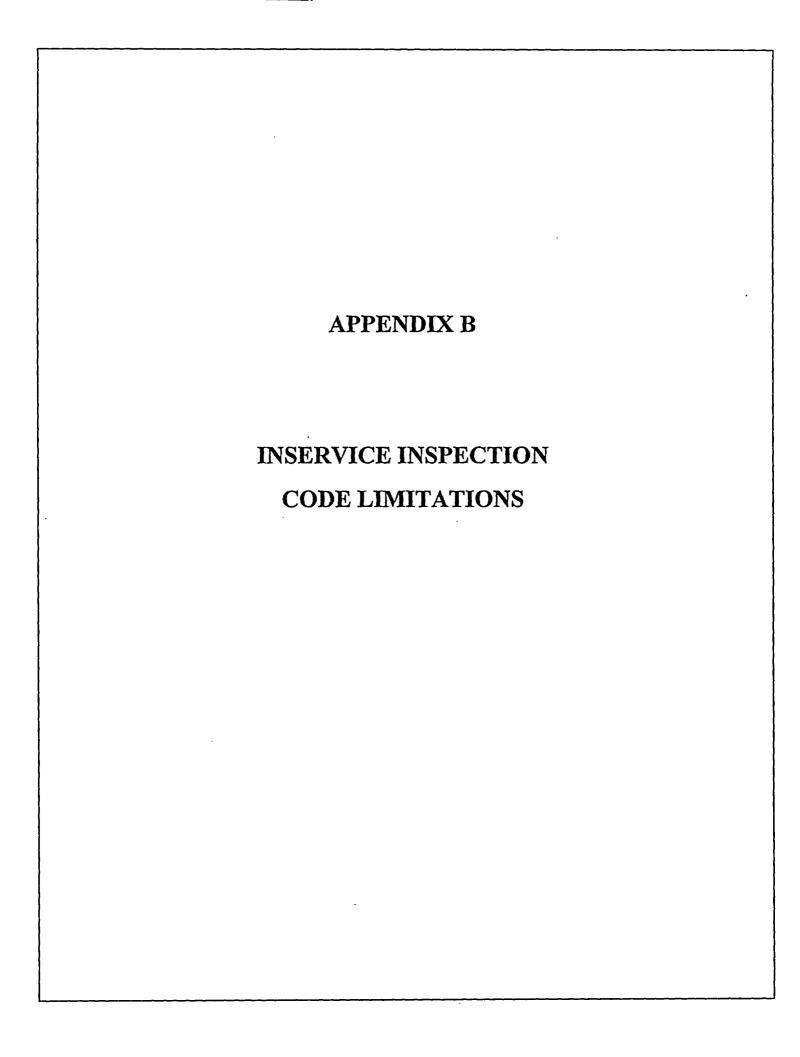
ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20					CH-142-H022			99-2414	
& 1.40					CH-424-H001			99-2415	
		Two	6	6	CH-142-H008			VT-02-064	
					CH-142-H020			VT-02-065	
		 			CH-142-H021			VT-02-067	
		 			CH-424-H002			VT-02-066	
					CH-424-H003			VT-02-068	
					CH-424-H006				6044
		There						VT-03-697	RR#4
		Three	6	6	CH-142-H001			VT-05-135	
		ļ			CH-142-H002			VT-05-136	-
					CH-142-H003			VT-05-137	<u></u>
					CH-142-H004			VT-05-138	<u> </u>
	- <u></u>	ļ			CH-142-H005			VT-05-139	Snubber Deleted
		<u> </u>			CH-142-H006			VT-05-140	
	104 SI Suction B	One	7	7	SI-033-H001			99-2460	support deleted
					SI-033-H002			99-2461	support deleted
		1		1	SI-033-H003			99-2462	
	·				SI-308-H005			99-2463	
		1			SI-308-H008			99-2464	1
		\vdash			SI-308-H010			99-2465	support deleted
	 	1			SI-308-H011			99-2466	
		Two	7	7	SI-308-H001			VT-02-284	
					SI-308-H002			VT-02-285	
		 		 	SI-308-H003			VT-02-297	
		 			SI-308-H004		:	VT-02-296	ļ
		 							Balatad
					S1-308-H006			VT-02-286	Deleted
		 			SI-308-H007			VT-02-287	Deleted
	·	ļ			SI-308-H015			VT-02-288	<u> </u>
	'	Three	6	6	SI-031-H001		·	VT-05-141	RR #4
					SI-031-H002			VT-05-142	RR #4
					SI-031-H003			VT-05-143	Snubber Deleted
					SI-031-H004			VT-05-144	RR #4
					SI-031-H005			VT-05-145	RR #4
					SI-308-H009			VT-05-146	RR #4
	105 Refuel Suction B	One	7	7	CH-149-H009			00-2168	
					CH-149-H010			00-2169	
					CH-149-H012			00-2170	
		1			CH-149-H013			00-2171	[
				-	CH-149-H014			00-2172	
		1						00-2559	
					CH-149-H021			00-2173	
]			CH-149-H028			00-2174	
		Two	7	7	CH-149-H001				Expansion
		140							
				 -	CH-149-H002				Expansion
		}	<u> </u>		CH-149-H003			VT-02-402	Expansion
	•	[[İ		CH-149-H004				Reject, PSE
								VT-02-387	replacement
•					CH-149-H005			VT-02-294	
					CH-149-H006			VT-02-293	
					CH-149-H007			VT-02-295	
		1			CH-149-H008			VT-02-398	Expansion
					CH-149-H021			VT-02-399	Expansion
					CH-149-H025			VT-02-292	
					CH-149-H026			VT-02-291	
		 			CH-149-H027			VT-02-290	
		Three	8	8	CH-149-H001			VT-05-147	
		111166						VT-05-147	
		1			CH-149-H002				
	<u> </u>	ļ		ļ	CH-149-H003			VT-05-149	
		 			CH-149-H004			VT-05-150	
					ITU 440 UAAO I	,		VT-05-151	1
					CH-149-H008 CH-425-H001			VT-05-151	<u> </u>

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20					CH-425-H006			VT-05-153	RR #4
& 1.40					CH-425-H007			VT-05-154	Snubber Deleted
					CH-425-H008			VT-05-155	Snubber Deleted
	106 HPSI A	One	8	8	SI-099-H001			00-2265	
		$\overline{}$			SI-099-H002			00-2266	
		1			SI-100-H001			00-2267	
		 		 	SI-100-H002			00-2268	
				 	SI-100-H003			00-2269	
		1			SI-100-H005			00-2270	
					SI-100-H034			00-2271	
		 			SI-106-H001			00-2272	
		Two	7	7	SI-100-H009		 	VT-03-667	Insulated
		100			SI-100-H010		 		
		 		!			ļ	VT-03-668	Insulated
					SI-100-H011			VT-03-669	
		-			SI-105-H00B			VT-03-653	Insulated
		 			SI-105-H00C			VT-03-652	Insulated
					SI-105-H00D		ļ	VT-03-651	Insulated
]		1		<u> </u>	SI-105-H00E			VT-03-650	Insulated
		Three	7	7	SI-100-H004			VT-05-571	
					SI-100-H006			VT-05-156	RR #4
· ·				,	SI-100-H007			VT-05-157	RR #4
		1		i	SI-100-H008			VT-05-158	RR #4
			i — —		SI-100-H015			VT-05-159	RR #4
		 			SI-100-H016			VT-05-160	RR #4
		 			SI-100-H036			VT-05-161	RR #4
	107 HPSI B	One	6	6	SI-107-H003			00-2093	
	101 1 0	 	Ť	 	SI-107-H011			00-2094	
	{ 	┪——			SI-107-H012			00-2095	
	 -	 	 		SI-107-11012 SI-112-H00C		 	00-2560	
			 	!	SI-112-H00G		 	00-2561	
		 	 -	 -			 	00-2096	
	<u> </u>	 	 		SI-112-H00H		ļ.———		
		Two	6_	6	SI-107-H005		 	VT-03-588	<u> </u>
		ļ			SI-107-H006	<u>-</u>	<u> </u>	VT-03-590	Insulated
	<u> </u>		<u> </u>	<u> </u>	SI-107-H007			VT-03-586	Insulated
	<u> </u>		<u> </u>	<u> </u>	SI-107-H008		<u> </u>	VT-03-592	insulated
				l	SI-107-H009		<u>t </u>	VT-03-587	Insulated
					SI-107-H010			VT-03-594	Insulated
		Three	6	6	SI-107-H001			VT-05-162	RR #4
					SI-107-H002		1	VT-05-163	RR #4
				<u> </u>	SI-107-H004			VT-05-164	RR #4
	i	1	1		SI-107-H046		i		RR #4
		1	 	i — —	SI-107-H048			VT-05-166	RR #4
		+	 	 	SI-112-H00D		 	VT-05-572	RR #4
	108 HPSI Discharge	One	11	11	SI-100-H022			99-2416	
	, John of plantary	1-0.10	 -	 	SI-100-H023		 	99-2417	
	<u> </u>	+	-	 	SI-100-H024			99-2418	
	 	 		 	SI-100-H024 SI-100-H025		 	99-2419	
	ļ	 	 	 			 		
		 	 	 	SI-100-H026		 	99-2420	
	ļ	1	 -	 	SI-100-H027		ļ	99-2421	
		 	ļ	 	SI-100-H028		 	99-2422	
	1	1	l	 	SI-100-H029			99-2423	
	ļ				SI-100-H031		L	99-2424	
					SI-100-H032			99-2425	
								99-2425 99-2426	
		Two	11	11	SI-100-H032				Insulated
		Two	11	11	SI-100-H032 SI-100-H035			99-2426	Insulated Insulated
		Two	11	11	SI-100-H032 SI-100-H035 SI-100-H012 SI-100-H013			99-2426 VT-03-676 VT-03-679	Insulated
		Two	11	11	SI-100-H032 SI-100-H035 SI-100-H012 SI-100-H013 SI-100-H018			99-2426 VT-03-676 VT-03-679 VT-03-681	Insulated Insulated
		Two	11	11	SI-100-H032 SI-100-H035 SI-100-H012 SI-100-H013 SI-100-H018 SI-100-H019			99-2426 VT-03-676 VT-03-679 VT-03-681 VT-03-682	Insulated Insulated Insulated
		Two	11	11	SI-100-H032 SI-100-H035 SI-100-H012 SI-100-H013 SI-100-H018			99-2426 VT-03-676 VT-03-679 VT-03-681	Insulated Insulated

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20				<u> </u>	SI-118-H00B		·	VT-03-691	Insulated
& 1.40				 	SI-118-H00D			VT-03-692	Insulated
		 			SI-118-H00R			VT-03-694	Insulated
		 			SI-118-H00S			VT-03-687	Insulated
		Three	11	11	SI-118-H00D			VT-05-167	
	 	1		 -:	SI-118-H00E			VT-05-168	
		- 			SI-118-H00F			VT-05-169	
				 	SI-118-H00G		 		ļ
	 			 				VT-05-170	
			<u> </u>	 -	SI-118-H00H		 	VT-05-171	
	 			<u> </u>	SI-118-H00J			VT-05-172	
	ļ	 		 	SI-118-H00K		ļ	VT-05-173	
	<u> </u>	<u> </u>			SI-118-H00L			VT-05-174	<u> </u>
				 	SI-118-H00M		 _	VT-05-175	<u> </u>
					SI-118-H00N			VT-05-176	
				<u> </u>	SI-118-H00P			VT-05-177	
					SI-118-H00Q			VT-05-178	
	109 HPSI Discharge	One	7	7	SI-107-H013			00-2422	
				I	SI-107-H014			00-2423	<u> </u>
	<u> </u>		I	1	SI-107-H015		 	00-2474	
	[SI-107-H016		t	00-2475	
		1		 	SI-107-H021		1	00-2424	
		1	 	 	SI-107-H047			00-2439	
	 			 	SI-107-H050			00-2440	support voided
		Two	7	-7	SI-107-H019			VT-03-693	Support Voided
		1-1410	 	 	SI-107-H020		 	VT-03-695	
	 	 	 	 -	SI-107-H025		 	VT-03-693	
	}		 	 	SI-107-H026			VT-03-689	
	 			 			 	VT-03-690	
				 -	SI-107-H027		 		
	 	 	ļ	 	SI-107-H028		 	VT-03-688	
	<u> </u>				SI-107-H029		 	VT-03-678	
	<u> </u>	Three	7	7_	SI-107-H030	<u> </u>	<u> </u>	VT-05-180	RR #4
	<u> </u>		<u> </u>	<u> </u>	SI-107-H031		<u> </u>	VT-05-179	RR #4
					SI-107-H032			VT-05-181	RR #4
					SI-107-H034				RR #4
			1	1	SI-107-H035			VT-05-183	RR #4
		1.]		SI-107-H036			VT-05-184	RR #4
		1			SI-107-H037		1	VT-05-185	RR #4
	110 HPSI Discharge	One	7	7	SI-103-H00B		1	00-2219	
	 		i		SI-103-H00D			00-2220	
	 	1	i		SI-103-H00E		1	00-2221	
			 	 	SI-218-H001		ļ	00-2215	
	 	1	 		SI-218-H002		 	00-2216	
	 		 	 	SI-218-H003		 	00-2217	
		-{	 	 	SI-218-H004		 	00-2217	
	 	Tura	7	7	SI-216-H004 SI-107-H039		 	VT-03-637	
	 	Two	 	 			 		
	 		 	 	SI-107-H041		 	VT-03-638	
	 		 	 	SI-107-H042		 	VT-03-639	
	 	 	 	 	SI-107-H043		 	VT-03-640	
	 		 	<u> </u>	SI-107-H044		 	VT-03-641	
			 		SI-107-H045				Insulated
			<u> </u>		SI-107-H049				Insulated
		Three	6	6	SI-103-H00A		<u></u>		RR #4
					SI-107-H00A		<u> </u>	VT-05-187	RR #4
			1		SI-110-H00A		L	VT-05-188	RR #4
	<u> </u>	_1_			101 040 11004		1	VT-05-189	RR #4
				1	SI-218-H00A				
								VT-05-190	RR #4
					SI-218-H00B SI-236-H00B				
	111 HPSI Discharge	One	3	3	SI-218-H00B			VT-05-190 VT-05-191 00-2228	RR #4
	111 HPSI Discharge	One	3	3	SI-218-H00B SI-236-H00B SI-100-H00A			VT-05-191 00-2228	RR #4
	111 HPSI Discharge	One	3	3	SI-218-H00B SI-236-H00B			VT-05-191	RR #4

ASME Item	Zone Comp/Sys	Insp Per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20					SI-236-H002	_		VT-03-658	Insulated
& 1.40					SI-236-H003			VT-03-659	Insulated
		7			SI-236-H004			VT-03-660	Insulated
		Three	3	3	SI-100-H030			VT-05-192	RR #4
		1			SI-100-H038			VT-05-193	RR #4
		1			SI-100-H040			VT-05-194	RR #4
	112 HPSI Discharge	One	3	3	SI-176-H001		· · · · · · · · · · · · · · · · · · ·	00-2155	
		-		- <u>-</u> -	SI-176-H002			00-2443	
	 				SI-176-H003			00-2156	
		Two	3	3	SI-100-H017			VT-03-613	Insulated
	 	100		 -	SI-102-H00A			VT-03-614	
	 			 -					Insulated
	 			 _	SI-102-H00B			VT-03-615	Insulated
		Three	4	4_	SI-101-H00A			VT-05-195	RR #4
					SI-101-H00B			VT-05-196	RR #4
	<u> </u>			ļ	SI-101-H00C			VT-05-197	RR #4
	<u> </u>				SI-101-H00D			VT-05-198	RR #4
					SI-157-H001			VT-05-199	RR #4
					SI-157-H005			VT-05-200	RR #4
		1		Ι	SI-157-H006			VT-05-201	RR #4
		1 - 1			SI-157-H009			VT-05-202	RR #4
	113 HPSI Discharge	One	5	5	SI-107-H022			00-2204	
		1			SI-107-H024			00-2205	
		 		 -	SI-157-H002			00-2206	
	 			 	SI-157-H003			00-2207	
	 -			 	SI-157-H004			00-2207	
	 	 		 -					la culata d
		Two	4	4	SI-108-H00A			VT-03-616	Insulated
				ļ	SI-109-H00A			VT-03-617	Insulated
	<u> </u>			<u> </u>	SI-157-H00A			VT-03-618	Insulated
	<u> </u>	<u> </u>		<u> </u>	SI-176-H00A			VT-03-619	Insulated
	115 HPSI Loop	Two	3	3	SI-157-H010			VT-02-076	Deleted
	2A & 2B				SI-157-H011			VT-02-074	
					SI-176-H004			VT-02-073	
	116 HPSI A Pump	One	4	4	116-1A			00-2554	
					116-1B			00-2554	
-					116-1C			00-2554	
		1		 	116-1D			00-2554	
	117 HPSI Pump B	Two	4	4	117-1A			VT-03-607	[
		+			117-1B			VT-03-608	
	}	-			117-1C			VT-03-609	
	 			<u> </u>	117-1D			VT-03-610	
	118 HPSI A Recirc	Three	24	24	SI-106-H002			VT-05-203	
	TTO HEST A RECITO	IIIIee	- 24		SI-106-H002			VT-05-204	
	 	-}		 					
	}			 	SI-106-H004			VT-05-205	
	<u> </u>	1		ļ	SI-106-H005		ļ	VT-05-206	
				<u> </u>	SI-106-H006		 _	VT-05-207	<u> </u>
					SI-106-H007			VT-05-208	l
				1	SI-106-H008			VT-05-209	
					SI-106-H008			VT-05-574	PSE, RR #4
	T	1			SI-106-H009		J	VT-05-210	1
	 				SI-106-H010			VT-05-211	
	 	1		 	SI-106-H011			VT-05-212	
	 	+		 	SI-106-H012			VT-05-213	
	 	1	-	 	SI-106-H013				RR #4
	 			 				VT-05-214	RR #4
	 			 -	SI-106-H014				IVV #4
	<u> </u>	. .		 -	SI-106-H015			VT-05-216	ļ
	<u> </u>	1			SI-106-H016			VT-05-217	<u> </u>
	1	1 1	l	l	SI-106-H018		<u></u>	VT-05-218	
	<u> </u>								
					SI-106-H019			VT-05-219	J
					SI-106-H019 SI-106-H020			VT-05-219 VT-05-220	
									

ASME Item	Zone Comp/Sys	Insp Per	Amt Rea	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
F 1.20	 	F 61	Req	Comp	C) 40C U000	<u> </u>	Suii	10000	
				 	SI-106-H023		 	VT-05-224	
& 1.40	 	- 	<u> </u>	 	SI-106-H024	, , , , , , , , , , , , , , , , , , , ,	 	VT-05-225	
				 	SI-106-H025		}	VT-05-226	
		<u> </u>		<u> </u>	SI-106-H026	<u></u>	<u> </u>	VT-05-570	<u> </u>
	119 HPSI B Recirc	Three	30	30	SI-114-H001			VT-05-227	RR #4
	 			[SI-114-H002		!		RR #4
	ļ			<u> </u>	SI-114-H003		<u> </u>	1	RR #4
	<u> </u>	<u> </u>		!	SI-114-H004	·	1		RR #4
	<u> </u>	1			SI-114-H005			VT-05-231	RR #4
					SI-114-H006			VT-05-232	RR #4
					SI-114-H007			VT-05-233	RR #4
					SI-114-H008		1	VT-05-234	RR #4
					SI-114-H009		ļ — — — — — — — — — — — — — — — — — — —	VT-05-235	RR #4
					SI-114-H010			VT-05-236	RR #4
	1				SI-114-H012		1	VT-05-237	RR #4
		7			SI-114-H013			VT-05-238	RR #4
		1			SI-114-H014		1	VT-05-239	RR #4
		1			SI-114-H015		1	VT-05-241	RR #4
	 	1			SI-114-H016	 	 	VT-05-242	RR #4
		<u> </u>			SI-114-H017		 	VT-05-243	RR #4
	 	1		1	SI-114-H018			VT-05-244	RR #4
				i — —	SI-114-H021		i	VT-05-245	RR #4
	 			<u> </u>	SI-114-H022		i	VT-05-246	RR #4
	 	1		 	SI-114-H025		i i	VT-05-247	RR #4
	 	1		 	SI-114-H026	· ·	 	VT-05-248	RR #4
	 	1		 	SI-114-H027		 	VT-05-249	RR #4
	 	 		 	SI-319-H00A		 	VT-05-250	
	 			 	SI-319-H00B		 	VT-05-251	
	 	 		 	SI-319-H00C		 	VT-05-252	
	 			 	SI-319-H00D		 	VT-05-253	
	 	+		 	SI-319-H00E	 _	 	VT-05-254	
	 	+		 	SI-319-H00F		 	VT-05-255	
	 		 	 	SI-319-H00G		 	VT-05-256	
	 	- 		 	SI-319-H00H		 	VT-05-256	
			L	<u> </u>	21-212-U00U	L	<u> </u>	TV 1-05-257	



APPENDIX B

UNIT 2 - REFUELING OUTAGE TWELVE

CODE LIMITATIONS

ASME Item	Zone / Component	<u>ITEM ID</u>	Report Number(s)
B9.11	29 Pressurizer Spray	29-2	UT-05-058
B9.11	29 Pressurizer Spray	29-3	UT-05-059
B9.21	30 Aux Pressurizer Spray	30-1	UT-05-063
B9.21	30 Aux Pressurizer Spray	30-2	UT-05-064

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

	APPENDIX C	
	NIS-1 FORMS	
·		·
	· · · · · · · · · · · · · · · · · · ·	

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1	OWNER -	ARIZONA PUBLIC SERVICE COMPANY, et al
1.	O WINDIX =	AND COM I ODDIC BERTICE COMIANT, ET UI

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

2. PLANT - PALO VERDE NUCLEAR GENERATING STATION

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

3. UNIT NUMBER - 2

4. OWNERS' CERTIFICATE OF AUTHORIZATION - NONE

5. COMMERCIAL SERVICE DATE - September 19, 1986

6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE

MANUFACTURER OR INSTALLER

SERIAL NUMBER STATE OR PROVINCE

NATIONAL BOARD NO

This report is a summary of the second interval third period examinations performed to date for Unit 2. The items examined, along with the examination report numbers, are listed in Appendix A.

APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

- 7. EXAM DATES <u>4-2-2005</u> TO <u>5-20-2005</u>
- 8. INSPECTION INTERVAL FROM <u>3-18-1997</u> TO <u>3-17-2007</u>
- 9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.

The items examined, along with the examination report numbers, are listed in Appendix A. The examinations are listed by ASME Category and Item Numbers with the corresponding examination report numbers.

10. ABSTRACT OF CONDITIONS NOTED

The one rejectable condition documented during this outage was corrected in accordance with PVNGS work control practices and ASME Section XI. One support was damaged. Section 2 Examination Summary of the summary report addresses this condition.

11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN

The rejectable portion of the support was replaced in accordance with ASME Section XI and APS Work Control procedures.

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

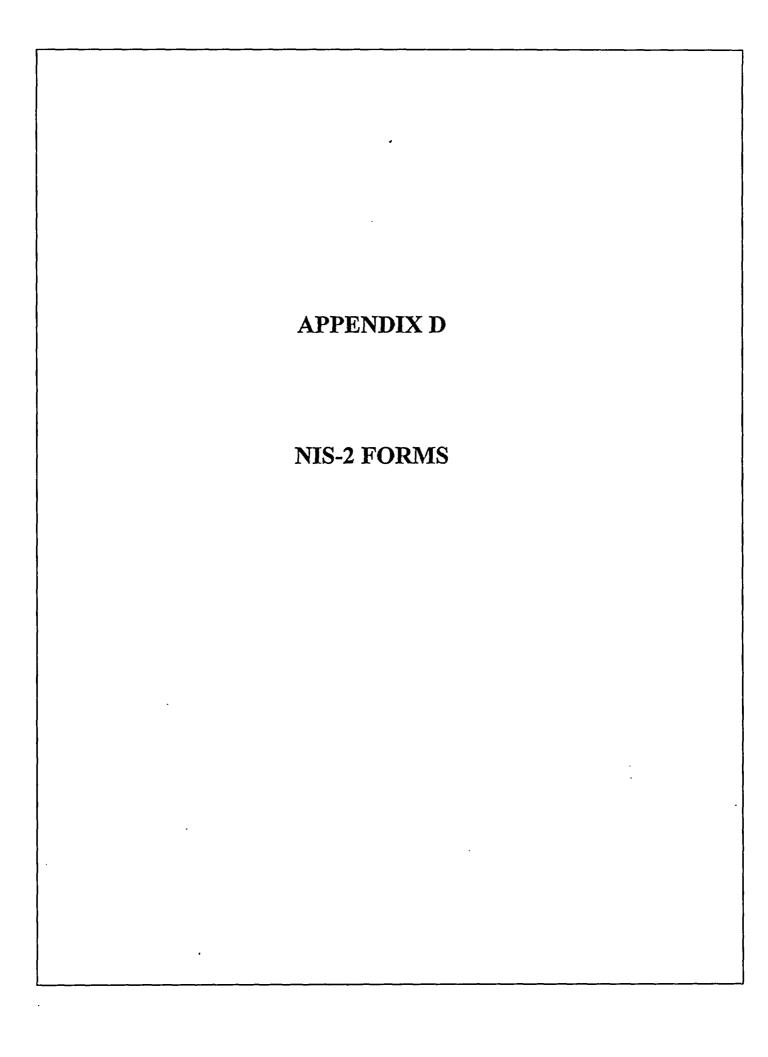
WE CERTIFY THAT THE STATEMENTS MADE IN THIS REPORT ARE CORRECT AND THE EXAMINATIONS AND CORRECTIVE MEASURES TAKEN CONFORM TO THE RULES OF THE ASME CODE, SECTION XI.

DATE 7/21/05 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY Muliol Mella

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSB CT OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 12-16-03 TO 5-20-05, 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 25 42	_COMMISSIONS	NB	9685	"۵,۵,۱,۵"	Az 264
	_	NAT'L	BOARD	, STATE, PI	ROVINCE
DATE 7-21-05					



·	ASME SECTION X	II – REPAIR / REPL	ACEMENT					
			Page	e(of(
1. Component ID 2RC018H	100A							
2 Item Description: Pipe S	<u>upport</u>							
3. N-5 Data Package Number: <u>2RC03-1B</u> 4. W.O. Number: <u>219436</u>								
5. Original Construction Cod	de Edition: 1974 Edition, W	Vinter 1975 Addenda	•					
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. World Description: Parts Nov. 2, 1808 and replace 18 IV Ball JAWI description 12 P.C. 018 IV 004								
7. Work Description: Rotate Item 3, 180° and replace 1" U-Bolt IAW drawing 13-RC-018-H-00A								
8. ISI Flaw NDE Method of Flaw Detection: Report Number:								
		Report Number:						
9. Evaluation of the suitabili			1.6	,				
No talure	cof ASME co	omporets. M	politication r	<i>to</i>				
increase c	leavance of.	support trov	n pipe w	elot.				
10. Repair/Replacement Wor	k Organization: Arizona P	ublic Service						
11. Replacement Items Cons			1974 Edition Winter 19	975 Addenda				
12. Repair/Replacement Act								
13. ASME Section XI Code/	Edition: 1992 Edition and	1992 Addenda						
14. Preservice Inspection Re	quired:	YES NO						
Initial Date 5	//	गण्य						
	•	include a step in the W.O.	to perform Preservice II	nspection				
15. ASME Section XI Pressu] YES ⊠ NO						
Initial Date	12/05 If required, i	include a step in the W.O.	for ISI & ANII Inspecti	on.				
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	a step in the W.O. to comp	olete NIS-2 Form prior t	to releasing the				
Initial Jy Date _5	component.		•	J				
1/4/	// 17. Include	a step in the W.O. to recor	d below all applicable n	numbers for repaired or				
Initial Date S	2/05 replacement		. ••					
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
Hanger 2RC018H00A	APN -00090604-	,	·	MR. PO.				
U-Boli J	4314000201	N/A	MGO /92707	60223694				
		·····	1.407.010	3-2-0-0-0-1				
•	·							
		,						
		· .						
				•				
1/1/1/		,		<u> </u>				
18. Planner Signature	76. S/8/C	Printed Name: I	Ierbert L. Green					
Signature	Dat		•					
19. ISI alan	Monow 51	2/05 Printed Name:	Alan Morrow	Log Entry am				
Signature	Dat							
20. ANII 74	6.9-	os Printed Name:	R.G. HOGSTRON					
Signature	Dat		N-CC. TOCCSI COM					
			<u> </u>					

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

As Required by the Provisions of the ASME Code Section XI

1								
1. Owner: Arizo	na Public Service (Company, et. al.	Services		Date: 05/	<u>/02/2005</u>		7-
<u>P. O. F</u>	30x 53999, Phoeni	ix Arizona 85072-20	<u>034</u>		Sheet:	<u>1</u> of <u>2</u>		
2. Plant: Palo V	Verde Nuclear Gene	erating Station			Unit: 2			•
<u>5801 S</u>	South Wintersburg	Road., Tonopah, A	rizona 8535	<u>54-7529</u>	Work Ord	er Numbe	<u>219436</u>	
3. Work Performe	ed by: <u>Arizona Public</u>	<u>s Service</u>		٠	Type of C	ode Stamp	<u>None</u>	
•					Authoriza	tion No.	N/A	
					Expiration	Date N/	<u>'A</u>	
4. Identification o	f System: Reactor (Coolant System						
5. (a) Applicable	Construction Code 1	ASME Section III NF	Class 1	<u>1974</u> Editio	on, <u>Winter 1</u>	<u>975</u> Adde	nda, Cod	e Case
(b) Applicable	Edition of Section 3	XI Utilized for Repairs	s or Replace	ments: <u>199</u>	92 Edition.	. 1992 Ad	ldenda	
6. Identification o	f Components Repai	ired or Replaced and I	Replacement	Componer	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	_	her fication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Pipe Support	N/A	N/A	N/A	2RC018H	100A	2005	Replacement	NO
•					_			
								<u></u>
	·							
7. Description of V 219436	Nork: Rotate Item	3, 180° and replace	e 1" U-Bolt	IAW drav	wing 13-R	C-018-H-	00A and work	order
8. Test Conducted:	: Hydrostatic	Pneumatic [☐ Nomi	inal Operat	ing Pressure	□ . :	Exempt 🛛	
N-4	416-2 Other	Pressure psi	i		Test Ten	nperature	°F·	
NOTE: Supple	emental sheets in f	form of lists, sketche	es or drawi	inos may l	ne lised pro	ovided (1)	ı size is 8 ½ X	11

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)					
9. Remarks: Rotate Item 3, 180° and replace 1" U-	-Bolt IAW drawing 13-RC-018-H-00A work order 219436.				
Pre-Pressured Test WO Review – ISI	MA				
ANII					
	ificate of Compliance				
We certify that the statements made in the repair ASME Code, Section XI.	port are correct and this replacement conforms to the rules of the				
Type Code Symbol Stamp	N/A				
Certificate of Authorization No.	N/A Expiration Date: N/A				
Signed: Clan Monow	ISI Engineer Date: 5/10/05				
Owner or Owner's Design	icc, Title				
CERTIFICATE	OF INSERVICE INSPECTION				
Inspectors and the State or Province of Arizo inspected the components described in this (to	o the best of my knowledge and belief, the Owner has performed es described in this Owner's Report in accordance with the				
concerning the examinations and corrective	ctor nor his employer makes any warranty, expressed or implied, measures described in this Owner's report. Furthermore, neither e in any manner for any personal injury or property damage or a ith this inspection.				
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements				
Date:					
<u></u>					

ASME SECTION XI - REPAIR / REPLACEMENT

NAME OF TAXABLE PARTY OF TAXABLE PARTY.			Page	of			
1. Component ID 2PRCEV	244		•				
2 Item Description: 4" Pre-	ssurizer Spray Check Valve						
3. N-5 Data Package Number	: 2RC03-1B	4. W.O. Number: 2	19436				
5. Original Construction Cod	•	• •					
6. Original Installation Code							
7. Work Description: To R			diacent piping per Eng-	DM 219184			
8. SI Flaw		NDE Method of Flaw Det		<u> </u>			
Report Number:							
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:							
The Check Valve interna	ls were removed during Star	t-up testing and Maintenan	ce has a long history of	problems with the			
body to bonnet seal, Refe	body to bonnet seal, Reference Eng-DM 219184 Evaluation.						
•		•	•				
10'. Repair/Replacement Wor	rk Organization: Arizona P	ublic Service					
11. Replacement Items Cons	-		4 Edition 1975 Winter	Addenda			
12. Repair/Replacement Acti							
13. ASME Section XI Code/		·					
14. Preservice Inspection Rec		X YES □ NO					
•	. l. 1						
		include a step in the W.O. 1	to perform Preservice Ir	ispection			
15. ASME Section XI Pressu		X YES □ NO		•			
Initial KS Date	0/3/04 If required,	include a step in the W.O.	for ISI & ANII Inspecti	on.			
		a step in the W.O. to comp	olete NIS-2 Form prior t	o releasing the			
Initial <u>WS</u> Date <u>6</u>	component.		•				
	/_ / 17. Include	a step in the W.O. to recor	d below all applicable p	umbers for repaired or			
Initial <u>KUS</u> Date	replacement			3/405			
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.			
4" Pipe	APN 00053306	HT# 30549	-50594	MR 863835			
4" Elbow	APN 00054113		1218B	MR 863835			
4" Reducing Tee	APN 00054469		12193	MR 863835			
2" Pipe	APN 43510642		3707H	MR 863835			
1" Weldolet	APN 43541147		3139 ANA	MR 863835			
H" PAPE	APH 00053306		D810607	MR 586952			
18. Planner Karl V. Savage Signature Date Printed Name: Karl V. Savage							
19. ISI RPholoco	$\mathcal{E}/9/c$	Printed Name:	R.P. IN	DAP			
20. ANII Signature	&-૧- Da		R.C. Hostrom				

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

						التواف الموافق الموافق التوافية	Military of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the last of the la
1. Owner: Arizo	ona Public Service	Company, et. al.		Date	e: <u>05/19/20</u>	104	
<u>P. O.</u>	Box 53999, Phoen	ix Arizona 85072	<u>-2034</u>	Shee	et: <u>1</u> of	2	
2. Plant: Palo	Verde Nuclear Gen	<u>ierating Station</u>		Unit	: <u>2</u>		
<u>5801</u>	South Wintersburg	Road., Tonopah,	Arizona 853	<u>54-7529</u> Wor	k Order Nu	mber <u>219436</u>	
3. Work Perform	ed by: <u>Arizona Publi</u>	ic Service	•	Тург	e of Code St	tamp <u>None</u>	
				Auth	orization No	o. <u>N/A</u>	
				Expi	iration Date	<u>N/A</u>	
4. Identification c	of System: RC (Rea	ctor Coolant) ASM	E Section III (Class 1	•		
5. (a) Applicable	Construction Code	ASME Section III ?	NB, Class 1	<u>1974</u> Edition, <u>Wi</u>	<u>nter 1975</u> A	ddenda, C	ode Case
	e Edition of Section 2					,	
6. Identification o	of Components Repai	ired or Replaced an	.d Replacement	t Components		·	
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
4" Pipe	N/A ·	N/A	N/A	2PRCEL018	2005	Replacement	NO
4"Ælbow	N/A	N/A	N/A	2PRCEL018	2005	Replacement	NO
4" Reducing Tee	N/A	·N/A	N/A	2PRCEL108	2005	Replacement	NO
2" Pipe	N/A	N/A ·	N/A	2PRCEL018	2005	Replacement	·NO
•							
							:
7. Description of V	Work: Removal of	Pressurizer Sprav	v Check Valv	e 2PRCEV244	and replace	adjacent Pipins	3
8. Test Conducted:	: Hydrostatic 🗌	Pneumatic	Nominal Or	perating Pressure	⊠ Ex€	empt N-4	16-1
Oth	ner Pressu	ure psi ·	•	Test	t Temperatur	re °F	
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include				

FORM NI	S-2 (Back)
---------	------------

9. Remarks: Work Order 219436, Removal of Pressurizer Spray Check Valve 2PRCEV244 and replace	ced adjacent Piping
and vent valve assembly. Reference Eng-DM 219184, EDC# 1998-00651.	
pre pressure test w.o. Review - ISI dem M. AMII 24 forten	tonow
Certificate of Compliance	
We certify that the statements made in the report are correct and this replacement conforms the ASME Code, Section XI.	to the rules of
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date:	
Signed: Clan Monow ISI Engineer Date: 5/	14/05
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of boiler and Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, C inspected the components described in this Owner's report during the period of 4-2-to 3-16-05, and state that to the best of my knowledge and belief, the Own examinations and taken corrective measures described in this Owner's Report in accordance of the ASME Code, Section XI.	Connecticut, have
• ,	
By signing this certificate, neither the Inspector nor his employer makes any warranty, expression concerning the examinations and corrective measures described in this Owner's report. Furthe Inspector nor his employer shall be liable in any manner for any personal injury or propless of any kind arising from or connected with this inspection.	thermore, neither
Mullin G. J. Commissions: NB 9698 A. National Board, State, Prov.	1 2264 -5-
Date: 5-16-05	·

ASME SECTION XI - REPAIR / REPLACEMENT

Page 1 of 2

1. Component ID <u>2PRCEL032</u>	2. C	Code Class ASM	IE Section III Class 1				
3. Item Description: Reactor Vessel to Steam Generator #1 hot leg piping							
4. N-5 Data Package Number: 2RC01-1A 5. W.O. Number: 2448544							
6. Original Installation Code Edition: 1974 Ed							
7. Original Installation Code Edition: 1974 Ed 8. Work Description: Perform modification of			-1 TATE THEW/O 23	27.006			
9. ISI Flaw		Class 1 RTD noz hod of Flaw Dete		76926.			
9. [_] 10111aw	Report Nu		euon.				
10. Evaluation of the suitability of this work as	per the requirements		· <u>-</u>				
Potential cracking of			zing replac	ed with			
inconel 690. See	DMW0 23	76926 f	or complete e	valuation.			
			<u> </u>				
11. Repair/Replacement Work Organization:	Arizona Public Servi	ce.					
12. Replacement Items Construction or reconcile			Class 1 1974,w/ Sum	mer 19 <u>74</u>			
13. Repair/Replacement Activity Construction C							
	dition, 1992 Addenda						
15. Preservice Inspection Required:	☐ YES	⊠ NO					
Initial Date 2/15/02 If s	required, include a st	ep in the W.O. to	perform Preservice I	nspection			
16. ASME Section XI Pressure Test Required:	☐ YES	⊠ NO	•	-			
If required include a step in the W.O. for ISI & ANII Inspection							
Initial Date 2/5/02 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							
11. Date 2/1/2			-				
Initial All Date 2/1/02			-				
Initial	. Include a step in the imponent. Include a step in the	eW.O. to comple	ete NIS-2 Form prior				
Initial	. Include a step in the imponent.	eW.O. to comple	ete NIS-2 Form prior	to releasing the			
Initial	. Include a step in the imponent. Include a step in the	eW.O. to comple	ete NIS-2 Form prior to below all applicable r	to releasing the			
Initial Date 2/15/62 17. Initial Date 2/15/62 18. Initial Date 2/15/02 rep	Include a step in the imponent. Include a step in the placement items.	e W.O. to comple	ete NIS-2 Form prior to below all applicable r	to releasing the			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 18. Item ID	Include a step in the imponent. Include a step in the placement items. Part No.	e W.O. to complete W.O. to record	ete NIS-2 Form prior to below all applicable r	numbers for repaired or MR/ROS No.			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 rep Item ID 2JRCBTW0112HB Inconel 690 Nozzle	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199	e W.O. to complete W.O. to record Serial No. N/A \ 3	ete NIS-2 Form prior to below all applicable r	MR/ROS No.			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 rep Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell	. Include a step in the imponent. . Include a step in the placement items. Part No. APN# 00067199 APN# 00067116	Serial No. N/A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ete NIS-2 Form prior to below all applicable r	MR/ROS No. MR#952874 MR#952874			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 rep Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle	Part No. APN# 00067116 APN# 00067199	Serial No. N/A \ \ 3 N/A \ \ 1 \ 3 N/A \ \ 1 \ 3	ete NIS-2 Form prior to below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 rep Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle	Part No. APN# 00067116 APN# 00067199	Serial No. N/A \ \ 3 N/A \ \ 1 \ 3 N/A \ \ 1 \ 3	ete NIS-2 Form prior to below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 rep Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle	Part No. APN# 00067116 APN# 00067199	Serial No. N/A \ \ 3 N/A \ \ 1 \ 3 N/A \ \ 1 \ 3	ete NIS-2 Form prior to below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Thermowell	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12	below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCBTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12	ete NIS-2 Form prior to below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCDTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Thermowell 19. Planner Signature	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12 Printed Name:	below all applicable r Heat No.	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Thermowell 19. Planner Signature 20. ISI	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12 Printed Name:	below all applicable r	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			
Initial Date 2/19/02 17. Initial Date 2/19/02 18. Initial Date 2/19/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCDTW0112HB Inconel 690 Thermowell 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Thermowell 19. Planner Signature 20. ISI Signature	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12 Printed Name:	Heat No. Heat No.	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			
Initial Date 2/15/02 17. Initial Date 2/15/02 18. Initial Date 2/15/02 18. Item ID 2JRCBTW0112HB Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Nozzle 2JRCDTW0112HD Inconel 690 Thermowell 19. Planner Signature 20. ISI	Include a step in the imponent. Include a step in the placement items. Part No. APN# 00067199 APN# 00067116 APN# 00067116 APN# 00067116 APN# 00067116	Serial No. N/A 13 N/A 13 N/A 12 N/A 12 Printed Name:	below all applicable r Heat No.	MR/ROS No. MR#952874 MR#952874 MR#952879 MR#952879			

ASME SECTION XI – REPAIR / REPLACEMENT

Page 2 of 2

والمرافق والبراق والمرافق المنافق والمناف والمناف والمناف والمناف والمناف والمناف والمناف والمناف والمناف والمناف	البيباسنة ارتاني ويواليوس						
1. Component ID 2PRCEL032	2. C	Code Class ASME	Section III Class 1				
3. Item Description: Reactor Vessel to Steam Generator #1 hot leg piping							
4. N-5 Data Package Number: <u>2RC01-1A</u> 5. W.O. Number: <u>2448544</u>							
	 6. Original Construction Code Edition: 1974 Edition, Summer 1974 Addenda 7. Original Installation Code Edition: 1974 Edition, Winter 1974 Addenda 						
		-	les IAW DMWO 23	76926			
8. Work Description: Perform modification of ASME Section III, Class 1 RTD nozzles IAW DMWO 2376926. 9. ISI Flaw NDE Method of Flaw Detection:							
	Report Nu						
10. Evaluation of the suitability of this work as	per the requirements	of IWA-4150:					
see pro	e 1						
		· 	·				
·			<u> </u>				
			•				
11. Repair/Replacement Work Organization:	Arizona Public Servi	<u>ce</u>					
12. Replacement Items Construction or reconcil	led Code/Edition: A	ASME Section III C	lass 1 1974,w/ Sum	mer 1974			
13. Repair/Replacement Activity Construction (1, 1974 w/Winter	<u>1975</u>			
"	dition, 1992 Addenda						
15. Preservice Inspection Required:	☐ YES	⊠ NO					
Initial Date 2/19/02 If	required, include a st	tep in the W.O. to p	erform Preservice I	nspection			
)16. ASME Section XI Pressure Test Required:	☐ YES	⊠ NO		-			
Initial Date 2/15/02 If	required, include a st	tep in the W.O. for	ISI & ANII Inspecti	ion.			
Initial M Date 2/15/02 17	. Include a step in the imponent.	e W.O. to complete	e NIS-2 Form prior	to releasing the			
18	3. Include a step in th placement items.	e W.O. to record be	elow all applicable	numbers for repaired or			
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.			
2JRCCTW0112HC Inconel 690 Nozzle	APN# 00067199	N/A 5		MR#952878			
2JRCCTW0112HC Inconel 690 Thermowell	APN# 00067116	N/A 5		MR# 952878			
2JRCATW0112HA Inconel 690 Nozzle	APN# 00067199	N/A 3		MR#952873			
2JRCATW0112HA Inconel 690 Thermowell	APN# 00067116	N/A 3		MR# 952873			
2JRCETW0111X Inconel 690 Nozzle	APN# 00067199	N/A (1		MR#952881			
2JRCETW0111X Inconel 690 Thermowell	APN# 00067116	N/A I		MR#952881			
		,					
1111/101	-1/		10 110				
19. Planner Signature	2/19/02 1	Printed Name: 🇷	ARRIT CRE	250			
	Date						
(Referred of P	Date Block		~	•			
20. ISI Signature	3/15/02 I	Printed Name: R	AMARANT ?	· INDAP			
20. ISI Signature	Duit						
	Duit		amarant ?				

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

1. Owner: Arizo	na Public Service	Company, et. al.			Date:	02/15/200	02	
<u>P. O. 1</u>	Box 53999, Phoen	aix Arizona 85072-	2034		Sheet:	<u>1</u> of	<u>2</u>	
2. Plant: Palo V	Verde Nuclear Ger	nerating Station			Unit:	<u>2</u>		
<u>5801 S</u>	South Wintersburg	g Road., Tonopah,	Arizona 8535	54-7529	Work	Order Nun	iber <u>2448544</u>	
3. Work Performe	ed by: Arizona Publ	ic Service			Туре о	of Code Sta	ımp <u>None</u>	
		_			Author	rization No	. <u>N/A</u>	
		•			Expira	tion Date	<u>N/A</u>	
4. Identification of	f System: Reactor	Coolant System, lin	e number 2PR	CEL032, S	pool S-0	001.		
5. (a) Applicable	Construction Code	ASME Section III N	NB, Class 1	1 <u>974</u> Editio	n, <u>Sum</u> r	mer 74_A	ddenda, C	ode Case
(b) Applicable	Edition of Section	XI Utilized for Repa	airs or Replace	ments: 199	92 Editi	ion, 1992	Addenda	
6. Identification o	f Components Repa	aired or Replaced an	d Replacement	Componer	ıts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identific		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
RCS Hot Leg #1	Combustion Engineering	771-301	N/A	2PRCEL)32	1980	Repaired	YES
								`
		,						
·								
7. Description of	Work: Perform m	odification of ASN	ME Section II	I, Class 1	RTD n	ozzles IA	W DMWO 237	<u>6926.</u>
8. Test Conducted	: Hydrostatic	Pneumatic	Nominal Op	perating Pre	essure [] Exe	empt 🛭 N-4	16-1 🗌
Oti	her Pres	sure psi		•	Test?	Temperatu	re °F	
		•						
inches, (2) inf	ormation in items	form of lists, ske 1 thru 6 on this re ded at the to of thi	port is includ					

ì		FORM NIS-2	2 (Back) w.o	. 2448544
			70112HC, 2JRCATW0112H MWO 2376926.	- · · · · · · · · · · · · · · · · · · ·
				· · · · · · · · · · · · · · · · · · ·
<u> </u>				
		Certificate of Con	npliance	
	that the statements made Code, Section XI.	in the report are correct	et and this replacement confe	orms to the rules of
Type Code	Symbol Stamp	N/A		
Certificate	of Authorization No	N/A	Expiration Date:	N/A
•	U Owner of Owner	er's Designee, True	Engineer Date: 5/	
	CERTIFIC	ATE OF INSERV	VICE INSPECTION	
Inspectors a inspected th	nd the State or Province e components described i	of Arizona and employ n this Owner's report d that to the best of my l measures described in	ne National Board of boiler and by HSB CT of Hartford, uring the period of	Connecticut, have 18-02 to where has performed
concerning the Inspecto	the examinations and corr	rective measures describe liable in any manner	loyer makes any warranty, exped in this Owner's report. For any personal injury or pron.	furthermore, neither
concerning the Inspecto	the examinations and com or nor his employer shall be	rective measures describe liable in any manner ected with this inspection	ped in this Owner's report. F for any personal injury or pron.	furthermore, neither coperty damage or a

Ų.,

ASME SECTION XI - REPAIR / REPLACEMENT 1. Component ID 2PRCEL063 2. Code Class ASME Section III Class 1 B. Item Description: Reactor Vessel to Steam Generator #2 hot leg piping 4. N-5 Data Package Number: 2RC01-1A 5. W.O. Number: 2448549 6. Original Construction Code Edition: 1974 Edition, Summer 1974 Addenda 7. Original Installation Code Edition: 1974 Edition, Winter 1974 Addenda 8. Work Description: Perform modification of ASME Section III, Class 1 RTD nozzles IAW DMWO 2376926. 9. ISI Flaw NDE Method of Flaw Detection: Report Number: 10. Evaluation of the suitability of this work as per the requirements of IWA-4150: Potential cracting of existing in word 600 7033/2 therefore 73 being replaced with incomel 690. See DMWD 2376926 11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: ASME Section III Class 1 1974,w/ Summer 1974 13. Repair/Replacement Activity Construction Code/Edition: ASME Section III Class 1, 1974 w/Winter 1975 14. ASME Section XI Code/Edition: 1992 Edition, 1992 Addenda ⊠ NO 15. Preservice Inspection Required: ☐ YES If required, include a step in the W.O. to perform Preservice Inspection 16. ASME Section XI Pressure Test Required: ☐ YES M 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. Heat No. Item ID Part No. Serial No. MR/ROS No. 2JRCCTW0122HC Inconel 690 Nozzle APN# 00067199 WA. N/A 2JRCCTW0122HC Inconel 690 Thermowell APN# 00067116 14 MR# 9528, 56 2JRCATW0122HA Inconel 690 Nozzle APN# 00067199 N/A 14 MR# 952856 2JRCATW0122HA Inconel 690 Thermowell APN# 00067116 -N/A-4 APN# 00067199 N/A-0 J 8578 # 9M 2JRCETW0121X Inconel 690 Nozzle 4 2JRCETW0121X Inconel 690 Thermowell APN# 00067116 MR#957860 N/A

19. Planner	Signature	J/1/2	Printed Name:	HERBERT GREET
20. ISI	Porday	3/15/02	Printed Name:	R.P. INDAP
21. ANII	Signature ()	Date 3-16-02.	Printed Name:	R.Ce. Hockstron
	Signiture	Date		

ASME SECTION XI - REPAIR/REPLACEMENT page 2 of 2							
1. Component ID 2PRCEL063	2. (Code Class ASME S	ection III Class 1	,			
3. Item Description: Reactor Vessel to Steam (Generator #2 hot leg	piping					
4. N-5 Data Package Number: 2RC01-1A		V.O. Number: 24485	<u>49</u>				
6. Original Construction Code Edition: 1974 Ed	6. Original Construction Code Edition: 1974 Edition, Summer 1974 Addenda						
7. Original Installation Code Edition: 1974 E		·					
8. Work Description: <u>Perform modification of</u>				<u>376926.</u>			
9. 🗌 ISI Flaw	•	hod of Flaw Detectio	n:				
	Report No						
10. Evaluation of the suitability of this work as	- -	of IWA-4150:					
see proe	_	······································		· · · · · · · · · · · · · · · · · · ·			
	· · ·						
							
	•						
11. Repair/Replacement Work Organization:	Arizona Public Servi	<u>ce</u>					
12. Replacement Items Construction or reconcil	led Code/Edition:	ASME Section III Cla	ss 1 1974,w/ Sum	mer 1974			
13. Repair/Replacement Activity Construction	Code/Edition: ASM	IE Section III Class 1	, 1974 w/Winter	<u>1975</u>			
14. ASME Section XI Code/Edition: 1992 E	dition, 1992 Addend	<u>a</u>					
15. Preservice Inspection Required:	☐ YES	⊠ NO					
Initial Date 2/19/02 If	required, include a s	tep in the W.O. to per	form Preservice I	nspection			
16. ASME Section XI Pressure Test Required:	☐ YES	⊠ NO		-			
Initial A Date 2/19/02 If	required, include a s	tep in the W.O. for IS	I & ANII Inspect	ion.			
_	Include a sten in th	ne W.O. to complete I	VIS-2 Form prior	to releasing the			
Initial Date 2/19/02 co	mponent.	io 11.0. to complete i	115-2 1 Omi prior	to releasing the			
/	Include a sten in th	ne W O to record held	ow all applicable	numbers for repaired or			
Initial Date 2/19/02 re	placement items.	io m.o. to record bear	ow un applicable	numbers for repaires or			
Item ID	Part No.	Serial No.	Heat No.	MR/ROS No.			
2JRCBTW0122HB Inconel 690 Nozzle	APN# 00067199	N/A 8		MR#952857			
2JRCBTW0122HB Inconel 690 Thermowell	APN# 00067116	N/A 8		MR#952857			
2JRCDTW0122HD Inconel 690 Nozzle	APN# 00067199	N/A IO		MR#952859			
2JRCDTW0122HD Inconel 690 Thermowell	APN# 00067116	GI AWA		MR# 952859			
				, , , , , , , , , , , , , , , , , , , ,			
	<u> </u>						
111111	-1-1		1 - 0 - 00				
19. Planner Signature	Date	Printed Name:	shusers o	- CEAN			
Robert a	21.5/22	£	>.o. T.				
20. ISI 0 10 COUP	3/15/02	Printed Name:	7,1,17	DAP			
Signature U	Dute						
21. ANII Rota	3-18-02	Printed Name: <u>k</u>	.G. HOGSTRO	n			
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: Arizo	na Public Service	Company, et. al.		Da	te: <u>02/15/20</u>	<u>02</u> ′	
<u>P. O. 1</u>	Box 53999, Phoer	nix Arizona 85072-	<u>-2034</u>	Sh	eet: <u>1</u> of	<u>2</u>	•
2. Plant: Palo V	Verde Nuclear Ger	nerating Station		Ur	Unit: 2		
<u>5801 S</u>	South Wintersburg	g Road., Tonopah,	Arizona 8535	54-7529 W	ork Order Nur	nber <u>2448549</u>	
3. Work Performe	ed by: <u>Arizona Publ</u>	ic Service		Ту	pe of Code St	amp <u>None</u>	
•				Au	thorization N	o. <u>N/A</u>	
Expiration Date <u>N/A</u>							
4. Identification of System: Reactor Coolant System, line number 2PRCEL063, Spool S-001.							
5. (a) Applicable	Construction Code	ASME Section III N	NB, Class 1	1974 Edition, <u>S</u>	ummer 74 A	ddenda, C	ode Case
(b) Applicable	Edition of Section	XI Utilized for Repa	airs or Replace	ments: 1992 I	dition, 1992	Addenda	
6. Identification o	f Components Repa	aired or Replaced an	d Replacement	Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificatio	Year n Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
RCS Hot Leg #2	Combustion Engineering	771-501	N/A	2PRCEL063	1980	Repaired	YES
				•			
		•					
							•
					<u> </u>		·
7. Description of Work: Perform modification of ASME Section III, Class 1 RTD nozzles IAW DMWO 2376926.							
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1					116-1 🔲		
Oth	Other Pressure psi Test Temperature F						
inches, (2) info	ormation in items	form of lists, ske 1 thru 6 on this re ded at the to of thi	port is includ				

1	FORM NIS-2 (Back)
. Remark	rs Perform modification to RTD nozzles 2JRCCTW0112HC, 2JRCATW0112HA, 2JRCETW0111X, 2JRCBTW0112HB and 2JRCDTW0112HD iaw DMWO 2376926.
	Certificate of Compliance
the AS	tify that the statements made in the report are correct and this replacement conforms to the rules of ME Code, Section XI.
Certific	cate of Authorization No. N/A Expiration Date: N/A REPURCION CONSULTING Metallurgical Engineer Date: 5/4/8:005 Dwner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
Inspected inspected sexamina	ndersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel ors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have ed the components described in this Owner's report during the period of
concern the Insp	ing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, ing the examinations and corrective measures described in this Owner's report. Furthermore, neither ector nor his employer shall be liable in any manner for any personal injury or property damage or a any kind arising from or connected with this inspection.
	Commissions National Board, State, Province, and Endorsements
Date:	5-6-02 2005

Page of 1. Component ID 2JCHBHV0203 2.. Item Description: PRESSURIZER AUX SPRAY VALVE 3. N-5 Data Package Number: 2RC03-1A 4. W.O. Number: 2571021 5. Original Construction Code Edition: 1977 EDITION, WINTER 1977 ADDENDA 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: REWORK VALVE INTERNALS AND REINSTALL SEAL WELD 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: THERE HAS BEEN NO FAILURE OF THE CODE PRESSURE BOUNDARY 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: SEC III CL1,1974 EDITION,1976 SUMMER ADDENDA 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: ☐ YES M NO Initial 180 Date 1/18/05 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: ⊠ NO Initial Date 1/18/0 5 If required, include a step in the W.O. for ISI & ANII Inspection. Initial LC Date 1/18/05 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. Initial 200 Date 1/18/05 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. Item ID Serial No. Heat No. MR/PO/WO No. Part No. 45020253 351 HP 926058 HAIN DISC 10 60185389 WO 257102] Comundo 1/19/05 Printed Name: 6. CSmund50n Printed Name: R.G. HOGSTROM 1-18-05

ASME SECTION XI - REPAIR / REPLACEMENT

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizon	na Public Service (Company, ct. al.		Dat	Date: 12/01/2004			
P. O. F	Box 53999, Phoeni	x Arizona 85072-	2034	She	et: <u>1</u> of	<u>2</u>		
2. Plant: Palo V	erde Nuclear Gene	erating Station.		Uni	it: 2			
5801 S	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 Wo	Work Order Number 2571021			
3. Work Performe	3. Work Performed by: Arizona Public Service Co. Type of Code Stamp None							
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 853	354-7529 Aut	horization No	o. <u>N/A</u>		
	Expiration Date <u>N/A</u>							
4. Identification of System: 2RC03-1A								
5. (a) Applicable	Construction Code A	ASME Section III N	JB, Class 1	1974 Edition, St	mmer 1976 A	Addenda, <u>N/A</u> Co	de Case	
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda								
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components			:	
Name of Item						Code Stamped (Yes or		
Main Disc	Target Rock	356	N/A	2JCHBHV0203	1983	Replacement	NO) No	
					 			
		·			1			
					1			
				<u> </u>				
i								
7. Description of V	Work: Rework valve	e internals and rein	stall seal weld.					
8. Test Conducted:	: Hydrostatic 🗌	Pneumatic	Nominal Op	perating Pressure	e 🗌 Exc	empt 🛛 N-4	16-2 🔲	
Oth	Other Pressure psi Test Temperature F							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM	NIS-2 (Back)
9. Remarks: REWORK VALVE INTERNALS AND REI	NSTALL SEAL WELD WO 2571021
Pre-Pressured Test WO Review – ISI	41 / 3
ANIIA	//A
Certificat	e of Compliance
We certify that the statements made in the report are Code, Section XI.	correct and this repair conforms to the rules of the ASME
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A	Expiration Date: N/A
Signed: Monow I. Owner or Owner's Designee, Title	SI Engricer Date: 5/11/05
•	
·	
CERTIFICATE OF IN	SERVICE INSPECTION
Inspectors and the State or Province of <u>Arizona</u> and inspected the components described in this Owner's to, and state that to the be	ned by the National Board of boiler and Pressure Vessel employed by HSB CT of Hartford, Connecticut, have a report during the period of
concerning the examinations and corrective measure	his employer makes any warranty, expressed or implied, es described in this Owner's report. Furthermore, neither manner for any personal injury or property damage or a inspection.
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 5-11-05	1

PV216-08NI (8-88) 73DP-9ZZ17 Rev 9

Dody ,		ASME SECTION 2	XI – REPAIR / REPL	ACEMENT	
2. Hem Description: CHN_DOIA_LOX_RESIN SLUICE HDR SUPPLY 3. N-5 Data Package Number: 2CHO1-1 3. N-5 Data Package Number: 2CHO1-1 4. W.O. Number: 2630480 5. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve hold; and gate due to interned diamage of valve. (A complete valve assembly (APN e5002793) will be obtained from warehouse and the necessary replacement ners (body and eate) will be removed from valve assembly and installed. PREPLACE SATE unjoy 8. Is Is Is Is Is Is Is Is Is Is Is Is Is			<u> </u>	. Pa	ge of
3. N.5 Data Package Number: 2CH01-1 5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve body and gate due to internal damage of valve. (A complete valve assembly Addenda for the Component of Park Package Valve body and gate due to internal damage of valve. (A complete valve assembly will be removed from valve assembly and installed. 8. Is I Flaw NDE Method of Flav Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate over the area damage dive to galling. Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate over the area damage dive to galling. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Hems Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 14. Preservice Inspection Required: 17. Replacement Repuired: 18. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 19. ASME Section XI Pressure Test Required: 19. If required, include a step in the W.O. to perform Preservice Inspection. 11. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 11. Include a step in the W.O. to record below all applicable numbers for replacement items. 12. Palmer Date 01/23/04	1. Component ID 2PCH	INV379			
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replaces valve body and gate due to internal damage of valve. (A complete valve assembly (APN 45002793) will be obtained from warehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. APN 45002793) will be obtained from warehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. APN 45002793) will be obtained from warehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. APN 45002793 will be obtained from warehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. APN 45002793 will be obtained from varehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. APN 45002793 will be obtained from varehouse and the necessary replacement activity. Reparts of the necessary replacement activity of this work as per the requirements of TWA - 4150: Reparts of the suitability of this work as per the requirements of TWA - 4150: APN 45002793 will be obtained from valve assembly and installed. APN 45002793 will be obtained from valve assembly and installed. APN 45002793 will be obtained from valve assembly and installed. APN 45002793 will be obtained assep in the W.O. to record below all applicable numbers for repaired or replacement items. Item ID Part No. Berial No. Heat No. MIR/PO/WO No. MIR 45002793 will be printed Name: Date Date Date Date Date Date Date Date	•				
5. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve body and gate due to internal damage of valve, (A complete valve assembly (ANN 408002793) will be removed from valve assembly and installed. 8. ISI Flaw NDE Method of Flat Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate Quinche area damage dive to galling. Replacement Work Organization: Adzona Public Service 11. Replacement Work Organization: Adzona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning 15. ASME Section XI Pressure Test Required: YES NO, Per Bob Browning 16. Include a step in the W.O. to perform Preservice Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 16. Include a step in the W.O. to record below all applicable numbers for replacement items. 16. Include a step in the W.O. to record below all applicable numbers for replacement items. 16. Include a step in the W.O. to record below all applicable numbers for replacement items. 17. Include a step in the W.O. to record below all applicable numbers for replacement items. 18. Planner Description Ann 45002793 NR 825348 18. Planner Description Ann 45002793 NR 825348 19. ISI Signature Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Printed Name: Print	•			<u>630480</u>	
7. Work Description: Replace valve body and gate due to internal damage of valve. (A complete valve assembly (APN 45002793) will be obtained from warehouse and the necessary replacement growy and gate) will be removed from valve assembly and installed. 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate gain the grown and gate due to internal damage of valve. (A complete valve assembly will be removed from valve assembly and installed. Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate gain the removed from valve assembly and the pressure of the part of the galling. Replacement Work Organization: Arizona Public Service 11. Replacement Work Organization: Arizona Public Service 11. Replacement Hems Construction or reconciled Code/Edition: Sec. III C12. 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12. 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial NIA Date If required, include a step in the W.O. to perform Preservice Inspection. 15. ASME Section XI Pressure Test Required: YES NO If required, include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 16. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 16. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner Department of the APN 45000793 Printed Name: Dave Shaffer Signature Date 19. ISI Signature Park Printed Name: Park Printed Name: R. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D. P. J. N.D					
APN 45002793) will be obtained from warehouse and the necessary replacement parts (body and gate) will be removed from valve assembly and installed. OPLY REPLACE GATE INFO Will be removed from valve assembly and installed. OPLY REPLACE GATE INFO Will be removed from valve assembly and installed. OPLY REPLACE GATE INFO WILLIAM IN THE PROPERTY REPORT NUMBER: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Valve gate gare gare gare and an appeal of the to galling. Name to garling. OPLY and the gare and an appeal of the garling. Part of garling.					
will be removed from valve assembly and installed. **NDE Method of Flaw Detection:** **Report Number:** 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: **Valve gake gained area damage for to galling.** **Report Number:** 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: **Valve gake gained area damage for to galling.** **Report Number:** 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: ASME Section XI 1992 and 1992 Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial DWS Date 01/23/04 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 1 Item ID Part No. Serial No. Heat No. MR/PO/WO No. 1 Body. Gate APP 15050116 225195 N // N/A MR 525348 18. Planner Della APP 15050792 Printed Name: Dave Shaffer Signature Bate 1/23/04 Printed Name: R. P. I.N.D.A.P. 19. ISI Signature Pare Date 1/23/04 Printed Name: R. R. L. Laccstron 1/23/04 Printed Name: R. R. Laccstron 20. ANII Alter 123-04 Printed Name: R. R. Laccstron 20. ANII Alter 123-04 Printed Name: R. R. Laccstron 10. Acceptance of the second parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent parent pa	•				
Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150:					GATE DIES
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10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial DWS Date 01/23/04 If required, include a step in the W.O. for ISI & ANHI Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner Deat No. Serial No. Heat No. MR/PO/WO No. Body. 18. Planner APN 45050793 NR 825348 18. Planner Signature Date Date Printed Name: P. J. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J.	6 P -1	1.224	Report Number:		
10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial DWS Date 01/23/04 If required, include a step in the W.O. for ISI & ANHI Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner Deat No. Serial No. Heat No. MR/PO/WO No. Body. 18. Planner APN 45050793 NR 825348 18. Planner Signature Date Date Printed Name: P. J. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J. D. J.	9. Evaluation of the suit	ability of this work as per the req	quirements of IWA - 4150:	e due to	galling.
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11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: ASME Section XI 1992 and 1992 Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial DWS Date 01/23/04 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner DPAT No. Serial No. Heat No. MR/PO/WO No. 18. Planner APN 45002793 NAR 825346 19. ISI Signature Date Date Printed Name: Printed Name: R.P. J. DAP 19. ISI Signature Date Printed Name: R.P. J. DAP 123.04 Printed Name: R.P. J. DAP 123.04 Printed Name: R.P. J. DAP 123.04 Printed Name: R.P. J. DAP 124.05 Printed Name: R.P. J. DAP 125.04 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 126.05 Printed Name: R.P. J. DAP 127.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 128.05 Printed Name: R.P. J. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10. DAP 10.	Ho failm	me in the pres	sure retain	o Part.	1/23/04 T
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: ASME Section XI 1992 and 1992 Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning Initial N/A Date If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial DWS Date 01/23/04 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner DPAT No. Serial No. Heat No. MR/PO/WO No. 18. Planner APN 45002793	10 Pensir/Renlacement	Work Organization: Arizona F	Public Service		
12. Repair/Replacement Activity Construction Code/Edition: ASME Section XI 1992 addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO, Per Bob Browning InitialN/A Date	• •			4 Edition 1975 Winte	er Addenda
13. ASME Section XI Code/Edition: 14. Preservice Inspection Required: YES NO, Per Bob Browning	· ·				······································
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15. ASME Section XI Pressure Test Required: YES NO Initial DWS_Date 01/23/04 If required, include a step in the W.O. for ISI & ANH Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner Printed Name: Dave Shaffer 19. ISI Signature Date 1/23/04 Printed Name: P. J. DAP 18. Planner Printed Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gastrand Name: R & Gas	14. Preservice Inspection	n Required:	☐ YES ☒ NO,	Per Bob Browning	
InitialDWS Date01/23/04_	InitialN/A Date	If required,	include a step in the W.O. t	o perform Preservice	Inspection
InitialDWSDate	15. ASME Section XI Pr	ressure Test Required:			
InitialDWS Date01/23/04 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. InitialDWS Date01/23/04 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. Item ID	Initial DWC Date	If required,	include a step in the W.O. f	or ISI & ANII Inspec	ction.
InitialDWSDate01/23/04 component. InitialDWSDate01/23/04 replacement items. Item ID	IlitialDWS Date		a sten in the W.O. to comp	lete NIS-2 Form prio	r to releasing the
Item ID Part No. Serial No. Heat No. MR/PO/WO No. Body. Gate APN 45050746 2251955N // W/A MR #831677 Value 1 MMF APN 45002793- 18. Planner Signature Pate 19. ISI Signature 1/23 / 04	InitialDWS Date	0110104	-	2 - Ci p	
Body	InitialDWS Date			d below all applicable	e numbers for repaired or
Gate APN 45050146 2251955N // W/A MR #831611 Valve 1 MAF APN 45002793 MR 825348 18. Planner No Signature Date Dave Shaffer 19. ISI Shoda 1/23/04 Printed Name: P. INDAP Signature Date Printed Name: R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassing R & Hassi	Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
18. Planner Walleffe, 1/23/04 Printed Name: Dave Shaffer 19. ISI Signature Date 20. ANII African 1-23-04 Printed Name: R & G. Hosstron 19. Signature Date 19. ANII African 1-23-04 Printed Name: R & G. Hosstron	Body.				
18. Planner Walle for 1/23/04 Printed Name: Dave Shaffer 19. ISI Signature Date Printed Name: R. P. INDAP 20. ANII 25 forture 1-23-04 Printed Name: R. G. 4005TROM Signature Date	Gate	APN 45050746	225195,5N11	NA	MR#831677
18. Planner Welleffe 1/23/04 Printed Name: Dave Shaffer 19. ISI Signature Date 20. ANII A future 1-23-04 Printed Name: R & Hasstron 18. Planner Date Printed Name: Date R & Hasstron 19. ISI Signature Date Printed Name: R & Hasstron	Valve 1 1mg	APN 145002793-		•	-MR-825348
19. ISI Production 1/23/04 Printed Name: R. P. INDAP 20. ANII Signature 1-23-04 Printed Name: R. G. 4065TROM Date	2-21-09				
19. ISI Production 1/23/04 Printed Name: R. P. INDAP 20. ANII Bignature 1-23-04 Printed Name: R. G. 4065TROM Date					
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Signature Date 20. ANII 25 fate 1-23-04 Printed Name: R & 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	18. Planner <u>NW Signature</u>	lieffe 1/23	Printed Name:	Dave Shaffer	
Signal dre Date	19. ISI Signature		Pate		
			Printed Name:	R G. Yastro	1
	- 1	,			73DP-92Z17 Rev 8

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

1. Owner: Arizo	1. Owner: Arizona Public Service Company, et. al. Date: 02/21/2004							
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	2034	SI	neet: 1 of	2		
2. Plant: Palo V	erde Nuclear Gene	erating Station		U	nit: <u>2</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	<u>i4-7529</u> W	ork Order Nur	nber <u>2630480</u>		
3. Work Performed by: Arizona Public Service Type of Code Stamp None								
				Α	Authorization No. N/A			
		·		E	piration Date	<u>N/A</u>		
4. Identification of System: CH: Volumn and chemical control								
5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Winter 1975 Addenda, Code Case								
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda								
6. Identification o	f Components Repai	red or Replaced and	d Replacement	Components		•		
Item Manufacture Serial No. Board No. Identification Built Replacement Code Stamped					ASME Code Stamped (Yes or			
Gate	Poss Warner	225195SN11	n/a	2PCHNV37	9 1992	Replacement	NO) YES	
Gate	Borg Warner	2231935N11	Iva	2FCHIV57	1992	Replacement	IES	
				<u> </u>				
								
							•	
								
·····						. !		
7. 7	W. J. Danlander							
7. Description of Work: Replaced valve gate.								
	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1							
Other Pressure psi Test Temperature F								
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM NIS-2 (Back

9. Remarks: WO# 2630480 for valve 2PCHNV379. Valve was disassembled and reworked to correct wear on gate guides.

The gate was replaced and fitted to valve. Valve was then returned to service

Cert	ificate of C	ompliance	
We certify that the statements made in the r the ASME Code, Section XI.	eport are corre	ect and this replacement confe	orms to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date: _	N/A
Signed: <u>Alan Monow</u> Owner or Owner's Design		Engineer Date:	2-24-04

CERTIFICATE OF INSERVICE INSPECTION

	•	ŧ.
I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and en inspected the components described in this Owner's reto 2-24-04, and state that to the best examinations and taken corrective measures describe requirements of the ASME Code, Section XI.	nployed by <u>HSB</u> eport during the of my knowledge	e and belief, the Owner has performed
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any modes of any kind arising from or connected with this inspector.	described in this nanner for any pe	Owner's report. Furthermore, neither
Inspectors Signature	Commissions:	NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 2-24-04		·

PV-E0092 Ver. 7 Back 73DP-9ZZ17 Rev 8

	ASME SECTION	ON XI - REPAIR/R	REPLACEMENT	Page <u>1</u> of <u>1</u>
1. Component ID	2MRCEE01A - SN#212	2. Code C	lass ASME Section III,	Class 1
3. Item Description	Steam Generator #1			
4. N-5 Package Number <u>2RC01-1A</u> 5. W.O. Number <u>2664794</u>				
6. Original Constru	ction Code Edition 1989 Ed	lition & No Addenda		
7. Original Installat	on Code Edition 1974 Edit	ion & 1975 Winter Adde	nda	·
8. Work Description	Install Westinghouse mec		E01A "Cold Leg" tubes p	er Engineering
	DFWO# 2664786 evaluat	ion and disposition.		
9. 🗹 ISI Flaw	NDE N	Method of Flaw Detection Report Number	Eddy Current Testing	
	e suitability of this work as p Eng-DFWO# 2664786	· · · · · · · · · · · · · · · · · · ·	VA-4150.	
				
11. Repair/Replacer	nent Work Organization _ W	Vestinghouse	· · · · · · · · · · · · · · · · · · ·	
•	m Construction or reconcile		ition & No Addenda	
•	nent Activity Construction C			la
14. ASME Section X	I Code/Edition 1992 Edition	on & 1992 Addenda		
15. Preservice Insp	ection Required.	. 🔲 YES	M NO	
BV 04/14/0	05 If required, include a	step in the W.O. to perfor	rm Preservice Inspection.	
	I December Took December 4		Ed vo	
BV 04/14/0	I Pressure Test Required	YES .step in the W.O. for ISI &	ANII Inspection	
Initial Date	•		•	_
BV 04/14/0	17. Include a step in	the W.O. to complete NIS	6-2 Form prior to releasing	g the component.
BV 04/14/0	18. Include a step in	the W.O. to record below	all applicable numbers fo	or replacement items.
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.
Tube Plugs	See attached list	See attached list	See attached list	See attached list
		<u> </u>		
19. Planner Barbara Vidal Singalura Vidal				
Signature / Date /				
20. ISI Engineer RAMAR 4/14/05 Print Name R.P. Inda p Logentry-RA				
Signature Date				
04 ANU 74	1	4-14-05	0/1/-	
21. ANII	Signature	Date Print N	Jame R.G. Houstre	PM

DFWO 2664786 and DIWO 2664794

Replacement Steam Generator (2MRCEE01A-SN212) Cold Leg, had mechanical plugs (part # 0307-1601) obtained via MR -733382 installed in the following locations:

Row	Column
40	87
46	111
47	104
48	103
49	110
141	102
141	112
154	91

All plugs were from heat NX3171HK.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 04/14/05 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station _____ Unit _____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2664794 Work Order Number None 3. Work Performed by Westinghouse Type Code Symbol Stamp N/A Authorization No. 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Address Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, NO 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 Repaired **ASME Code** Name of Name of Manufacturer National Other Yearl Stamped or Built Replacement Item Manufacturer Serial No. Board No. Identification (Yes or No) Steam Generator Ansaldo 212 NA 2MRCEE01A 2002 Repaired Yes Tube Plugs NA NA NA 2005 Replacement No Westinghouse 7. Description of Work Plug Steam Generator Cold Leg Tubes Per DFWO# 2664786 Pneumatic Nominal Operating Pressure Exempt 8. Test Conducted: Hydrostatic N-416-1 🔲 Test Temp. _____°F Pressure psi Other 🔲 NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

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

9. Remarks: DIWO 2664794 Replacement Steam Generator (2MRCEE01A-s/n 212) Cold Leg, had mechanical plugs (part# 0307-1601) obtained via MR 733382 (All plugs are from Heat NX3171HK) installed in the following locations: Row 40 Column 87; Row 46 Column 111; Row 47 Column 104; Row 48 Column 103; Row 49 Column 110; Row 141 Column 102; Row 141 Column 112; Row 154 Column 91

Certificate of Compliance			
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.		Expiration Date:	
Signed: RPIndap Consulting Metallurgical Engineer Date: 5/4/05			

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and eminspected the components described in this Owner's reto, and state that to the best of examinations and taken corrective measures described requirements of the ASME Code, Section XI.	ployed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have port during the period of <u>-5-rt</u> 4-15-05 of my knowledge and belief, the Owner has performed
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures d the Inspector nor his employer shall be liable in any maloss of any kind arising from or connected with this inspectors of any kind arising from or connected with this inspectors Signature	escribed in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a

		ASME SECTION	ON XI - REPAIR/R	REPLACEMENT	Page <u>1</u> of <u>1</u>
1. Component ID 2MRCEE01A - SN#212 2. Code Class ASME Section III, Class 1					
3. Item D	escription S	team Generator #1		· · · · · · · · · · · · · · · · · · ·	
4. N-5 Pa	ackage Numb	per 2RC01-1A	5. W.O. N	umber <u>2664795</u>	
6. Origina	al Constructio	on Code Edition 1989 Ed	ition & No Addenda		
7. Origina	al Installation	Code Edition 1974 Editi	on & 1975 Winter Adde	nda	
8. Work I				E01A "Hot Leg" tubes pe	r Engineering
	<u> 1</u>	FWO# 2664788 evaluati	on and disposition.		
9. 🗹 1	SI Flaw	NDE M	lethod of Flaw Detection Report Number	Eddy Current Testing	
		uitability of this work as p g-DFWO# 2664788	· · · · · · · · · · · · · · · · · · ·	VA-4150.	
 		<u> </u>			
11. Repair	r/Replaceme	nt Work Organization W	estinghouse		
•	, •	Construction or reconcile		ition & No Addenda	
13. Repair	r/Replaceme	nt Activity Construction Co	ode/Edition 1974 Edition	n & 1975 Winter Addend	la .
14. ASME	Section XI C	Code/Edition 1992 Edition	on & 1992 Addenda		
15. Prese	rvice Inspect	ion Required.	☐ YES	Ø NO	
BV	04/14/05 Date	If required, include a	step in the W.O. to perfor	rm Preservice Inspection	•
16. ASME Section XI Pressure Test Required YES NO BV					
Initial		PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.
Tube	Plugs	See attached list	See attached list	See attached list	See attached list
	 				
19. Planne	er Bas	Lan Vilal Signature	4/14/05 Print N	Name <u>Barbara</u>	- Vidal
20. ISI Eng	gineer <u></u>	PINACP Signature	4/14/05 Print N	lame R.P.Indap	> Logenty-DPZ
21. ANII	24	Signature	4-44-05 Print N	lame R.C. Hoce STRE	on

DFWO 2664788 and DIWO 2664795

Replacement Steam Generator (2MRCEE01A-SN212) Hot Leg, had mechanical plugs (part # 0307-1601) obtained via MR -733382 installed in the following locations:

Row	Column
40	87
46	111
47	104
48	103
49	110
141	102
141	112
154	91

All plugs were from heat NX3171HK.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 04/14/05 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2. Plant Palo Verde Nuclear Generating Station _____ Unit _____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2664795 Work Order Number Type Code Symbol Stamp None 3. Work Performed by Westinghouse Authorization No. N/A 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Address Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, NO 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 Repaired ASME Code Name of Manufacturer National Year Name of Other Stamped or Item Manufacturer Serial No. Board No. Identification Built Replacement (Yes or No) 2MRCEE01A Steam Generator Ansaldo 212 NA 2002 Repaired Yes Tube Plugs Westinghouse NA NA NA 2005 Replacement No 7. Description of Work Plug Steam Generator Hot Leg Tubes Per DFWO# 2664788 Pneumatic Nominal Operating Pressure 8. Test Conducted: Hydrostatic Exempt 🗹 N-416-1 🔲 Other Pressure · psi Test Temp. NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in.,

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(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 (B	ack)
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9. Remarks: DIWO 2664795 Replacement Steam Generator (2MRCEE01A-s/n 212) Hot Leg, had mechanical plugs (part# 0307-1601) obtained via MR 733382 (All plugs are from Heat NX3171HK) installed in the following locations: Row 40 Column 87; Row 46 Column 111; Row 47 Column 104; Row 48 Column 103; Row 49 Column 110; Row 141 Column 102; Row 141 Column 112; Row 154 Column 91

Certificate of Compliance			
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.			
Type Code Symbol Stamp	N/A		
Certificate of Authorization No		Expiration Date: N/A No Symper Date: 5/4/2005	
JOwner or Owner's Design	nee, Title · _	,	

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and en inspected the components described in this Owner's reto, and state that to the best examinations and taken corrective measures describ requirements of the ASME Code, Section XI.	pployed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have port during the period of <u>4-14-05</u> of my knowledge and belief, the Owner has performed	
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.		
Inspectors Signature Date: 5-4-05	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements	

ASME SECTION XI - REPAIR/REPLACEMENT Page 1 of 1					
I. Compo	onent ID 2M	IRCEE01B - SN#211	2. Code C	class ASME Section III,	Class 1
3. Item D	escription St	team Generator #2			- <u>-</u>
4. N-5 Pa	ackage Numb	per 2RC01-1A	5. W.O. Nu	umber <u>2664806</u>	
6. Origina	al Constructio	on Code Edition 1989 Ed	lition & No Addenda		
7. Origina	al Installation	Code Edition 1974 Editi	ion & 1975 Winter Adder	nda	
8. Work [hanical plugs in 2MRCEE	301B "Cold Leg" tubes pe	er Engineering
	<u> </u>	FWO# 2664789 evaluati	on and disposition.		-
9. 🗹 🛚	SI Flaw	NDE N	Method of Flaw Detection	Eddy Current Testing	
40 Fuolu	" af tha c	the filter of this work go r	· Report Number	*** 4450	
		uitability of this work as p g-DFWO# 2664789	per the requirements of IV	VA-4150.	
`					
11 Bensi	-/Benlacemer	nt Work Organization W	Jectinghouse		
•	•		ed Code/Edition 1989 Edi	ition & No Addenda	
•			code/Edition 1974 Edition		 Ia
•	-	code/Edition 1992 Edition	 	13 00 27 10 11 11100 1 100010	
		ion Required.	YES	M NO	
BV	04/14/05	•	step in the W.O. to perform		
, Inital	Date	<i>,</i>			
		ressure Test Required	YES	✓ NO	•
BV Initial	04/14/05 Date	_	step in the W.O. for ISI &	•	
BV	04/14/05 Date	17. Include a step in t	the W.O. to complete NIS	3-2 Form prior to releasing	g the component.
BV	04/14/05	_ 18. Include a step in t	the W.O. to record below	all applicable numbers fo	or replacement items.
Initial . ITEM	Date	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.
	Plugs	See attached list	See attached list	See attached list	See attached list
					
		 			
	0 1	1/.00		D 1	1/. / /
19. Planne	1/2m/-2	Signature VASA	4/14/05 Print N	lame 15 arbara	VIdul
		· •	•		
			1 /	~	
20. ISI Eng	gineer <u>M</u>	magy	4/14/05 Print N	lame R.P. Indap	Log entry-RPSE
		Signature	Date	1.	,
•					
0-4 ANIII	25	/	4-15-05	01 4.5	
21. ANII	<u> </u>	() Signature	Date Print N	lame R.G. Youst	ROM

DFWO 2664789 and DIWO 2664806

211 PPP 5/4/05

Replacement Steam Generator (2MRCEE01B-SN242) Cold Leg, had mechanical plugs (part # 0307-1601) obtained via MR -733382 installed in the following locations:.

Row	Column
114	69
21	76
29	80
48	91
43	92
44	111
106	117

All plugs were from heat NX3171HK.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 04/14/05 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2664806 Work Order Number 3. Work Performed by Westinghouse Type Code Symbol Stamp None N/A Authorization No. 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, NO 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 ASME Code Repaired Name of Name of Manufacturer National Year Other Stamped Manufacturer Serial No. Board No. Identification Built Item Replacement (Yes or No) Steam Generator Ansaldo 211 NA 2MRCEE01B 2002 Repaired Yes Tube Plugs Westinghouse NA NA 2005 Replacement No NA 7. Description of Work Plug Steam Generator Cold Leg Tubes Per DFWO# 2664789 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

PV-E0092 Ver. 7

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

FORM	NIS-2	(Back)
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9. Remarks: DIWO 2664806 Replacement Steam Generator (2MRCEE01B-s/n 211) Cold Leg, had mechanical plugs (part# 0307-1601) obtained via MR 733382 (All plugs are from Heat NX3171HK) installed in the following locations: Row 114 Column 69; Row 21 Column 76; Row 29 Column 80; Row 48 Column 91; Row 43 Column 92; Row 44 Column 111; Row 106 Column 117

C	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	the report are correct	and this replacement conform	s to the rules of
Type Code Symbol Stamp			
Certificate of Authorization No. Signed: Consulting Owner or Owner's	N/A No Metallergia Designee, Title	Expiration Date:	N/A /4/2005

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	I by the National Board of boiler and Pressure Vessel apployed by HSB CT of Hartford, Connecticut, have eport during the period of
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any m loss of any kind arising from or connected with this ins	described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a
74 Latine Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 5-4-05	

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	ASME SECTION	ON XI - REPAIR/H	REPLACEMENT	Page <u>1</u> of <u>1</u>		
1. Component ID 2M	IRCEE01B - SN#211	2. Code C	lass ASME Section III,	Class 1		
3. Item Description S	team Generator #2					
4. N-5 Package Numb	per 2RC01-1A	5. W.O. No	umber <u>2664807</u>			
6. Original Construction	on Code Edition 1989 Ed	ition & No Addenda	<u></u>			
7. Original Installation	Code Edition 1974 Edit	ion & 1975 Winter Adder	nda			
			E01B "Hot Leg" tubes per	Engineering		
Ī	FWO# 2664790 evaluati	on and disposition.				
9. 🗹 ISI Flaw	9. ISI Flaw NDE Method of Flaw Detection Eddy Current Testing Report Number					
	uitability of this work as p	er the requirements of IV	VA-4150.			
Evaluation Per En	g-DFWO# 2664790					
11. Repair/Replaceme	nt Work Organization <u>W</u>	estinghouse				
12. Replacement Item	Construction or reconcile	d Code/Edition 1989 Ed	ition & No Addenda			
13. Repair/Replaceme	nt Activity Construction C	ode/Edition 1974 Edition	n & 1975 Winter Addend	a		
14. ASME Section XI C	Code/Edition 1992 Edition	on & 1992 Addenda	<u> </u>			
15. Preservice Inspect	tion Required.	🔲 YES	✓ NO			
BV 04/14/05	If required, include a	step in the W.O. to perfor	rm Preservice Inspection.			
I 16 ASME Section VI D	ressure Test Required	☐ YES	✓ NO			
BV 04/14/05	•	_ ·				
Initial Date						
BV 04/14/05 Initial Date	_ 17. Include a step in	tne w.O. to complete NIS	6-2 Form prior to releasing	g tne component.		
BV 04/14/05 Initial Date	18. Include a step in	the W.O. to record below	all applicable numbers fo	or replacement items.		
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.		
Tube Plugs	See attached list	See attached list	See attached list	See attached list		
	<u> </u>					
19. Planner But Vilal 4/14/05 Print Name Barbara Vidal						
20. ISI Engineer	20. ISI Engineer Phology 4/14/05 Print Name R.P. INDAP Legentry-RAL					
21. ANII 74 3	fater	4-14-05 Print N	lame R.G. Houst	Zom		
	Signature	Date				

DFWO 2664790 and DIWO 2664807

211 PRP\$ 5/4/05

Replacement Steam Generator (2MRCEE01B-SN212) Hot Leg, had mechanical plugs (part # 0307-1601) obtained via MR -733382 installed in the following locations:

Row	Column
114	69
21	76
29	80
48	91
43	92
44	111
106	117

All plugs were from heat NX3171HK.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 04/14/05 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station _____ Unit ____ 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 Type Code Symbol Stamp None 3. Work Performed by Westinghouse N/A Authorization No. 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, NO 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 Repaired **ASME Code** Name of Name of Manufacturer National Other Year Stamped Item Manufacturer Serial No. Board No. Identification Built Replacement (Yes or No) NA 2MRCEE01B 2002 Yes Steam Generator Ansaldo 211 Repaired Tube Plugs Westinghouse NA NA .NA 2005 Replacement No 7. Description of Work Plug Steam Generator Hot Leg Tubes Per DFWO# 2664790 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1 🔲 Pressure _____ psi Other Test Temp. NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and

PV-E0092 Ver. 7 73DP-9ZZ17

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

FORM NIS-2 (Back)

Remarks: DIWO 2664807 Replacement Steam Generator (2MRCEE01B-s/n 211) Hot Leg, had mechanical plugs (part# 0307-1601) obtained via MR 733382 (All plugs are from Heat NX3171HK) installed in the following locations: Row 114 Column 69; Row 21 Column 76; Row 29 Column 80; Row 48 Column 91; Row 43 Column 92; Row 44 Column 111; Row 106 Column 117

Ce	ertificate of Co	mpliance	
We certify that the statements made in the ASME Code, Section XI.	ne report are correc	t and this replacement confor	ms to the rules of
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: RAMOR CONSULTAND OWNER OF OWNER'S I	Metallurgica Designee, Title	1 Stylneer Date: _ F	5-4-2005

CERTIFICATE OF INSERVICE INSPECTION

ed by the National Board of boiler and Pressure Vessel employed by HSB CT of Hartford, Connecticut, have report during the period of 4-14-05 to f my knowledge and belief, the Owner has performed ibed in this Owner's Report in accordance with the
is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither manner for any personal injury or property damage or a spection.
Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements

·	ASME SECTION A	I – REPAIR / REPL	•				
1. Component ID 2PC005H0	715		Pa Pa	ge of			
2 Item Description: B TRA		FROM CONTAINMENT	RECIRC SUMP				
3. N-5 Data Package Number: <u>2PC02-1</u> 4. W.O. Number: <u>2664893</u>							
5. Original Construction Cod	e Edition: 1974 Edition, S	ummer 1976 Addenda					
6. Original Installation Code	Edition: 1974 Edition, Wi	nter 1975 Addenda					
7. Work Description: Repla	ace the snubber						
8. 🗌 ISI Flaw		NDE Method of Flaw Det	ection:				
9. Evaluation of the suitabilit	y of this work as per the rea	Report Number:					
	•		maaaysa dua ta m	manainal manulta of the			
	ssed Surveillance Testing, w	vas replaced as a precaution	iary measure que to n	narginal results of the			
testing.	•	•					
	•						
10 Densi-Manlanaman Was	l. Ó Adinasa D						
10. Repair/Replacement Wor11. Replacement Items Const			14 Edition 1975 Winte	er Addenda			
12. Repair/Replacement Acti							
13. ASME Section XI Code/I	-						
14. Preservice Inspection Rec		Y YES NO					
_	· -	4121105					
Initial AID Date 4-	•	include a step in the W.O.	to perform Preservice	Inspection			
15. ASME Section XI Pressu	re Test Required:	YES NO					
Initial J.D. Date 4.	19-05 If required,	include a step in the W.O.	for ISI & ANII Inspec	ction.			
Initial TO Date 4	16. Include	a step in the W.O. to comp	olete NIS-2 Form prio	or to releasing the			
Initial 200. Date 1	component.						
Initial J.O. Date 4	17. Include replacement	a step in the W.O. to recort items.	d below all applicable	e numbers for repaired or			
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.			
Snubber	APN 45350024	18742	N/A	MR 967160			
	<i>→</i>						
			<u> </u>				
		·					
10 Planes	De - 4-19	Frinted Name: J	amaa I Davia				
18. Planner Signature	. Da		ames I. Davis				
10 101 BOA 1	Monow 4/19	9/05 Printed Name:	dt. de.				
19. ISI Signature	Da		read more	Log Entry su			
n. 1-		0-45	ا. یم	,			
20. ANII Signature	7-i		RG HOGSTROM	· · · · · · · · · · · · · · · · · · ·			
PV216-08NI (8-88)				73DP-9ZZ17 Rev 9			

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

As Required by the Provisions of the ASME Code Section XI

	D.							
1. Owner: Arizon	na Public Service (Company, et. al.	·		Date: <u>04/</u>	29/2005		
<u>P. O. F</u>	Box 53999, Phoeni	x Arizona 85072-20	<u>)34</u>	•	Sheet:	<u>1</u> of <u>2</u>		
2. Plant: Palo V	erde Nuclear Gene	erating Station		•	Unit: 2			
5801 S	outh Wintersburg	Road., Tonopah, A	rizona 8535	<u>4-7529</u>	Work Ord	er Number	2664893	
3. Work Performed by: Arizona Public Service Type of Code Stamp None								
Authorization No. N/A								
					Expiration	Date N/	<u>A</u>	
4. Identification of	f System: SI: Safety	/ Injection						
5. (a) Applicable	5. (a) Applicable Construction Code ASME Section III NF, Class 3 1974 Edition, Winter 1975 Addenda, Code Case							
(b) Applicable	Edition of Section X	I Utilized for Repairs	s or Replace	ments: <u>199</u>	22 Edition	1992 Ad	denda	
6. Identification of	f Components Repai	red or Replaced and I	Replacement	Componer	nts			
Item Manufacture Serial No. Board No. Identification Built Replacement Code Stamped (Yes or Code)							Stamped	
Snubber	PSA	18742	n/a	2PC005H	1015	1981	Replacement	YES
							,	
	-							
								·
7. Description of V	Work: Replace snu	ibber for precaution	ary reasons	<u>.</u>				-
8. Test Conducted	: Hydrostatic	Pneumatic [Nom	inal Operat	ing Pressur	e 🔲 🗆	Exempt 🛚	
N-4	116-2 Other	Pressure ps	i -		Test Ten	nperature	°F	-
		•						
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

	FORM	I NIS-2 (Back)
9.	Remarks: Work Order 2664893 replaced the snubber snubber passed its ST, the results were marginal and t	on support 2PC005H015 after Surveillance testing. Although the he snubber was replaced as a precautionary measure.
	- 12 4 C j	
Pre	e-Pressured Test WO Review - ISI	NIA
	. ANII	MA
ſ	Certifica	ate of Compliance
	We certify that the statements made in the report a ASME Code, Section XI.	are correct and this replacement conforms to the rules of the
	Type Code Symbol StampN	<u>'A</u>
	Certificate of Authorization NoN	I/A Expiration Date:N/A
	Signed: Monow Owner or Owner's Designee, Tit	Sr ISI EngineerDate: 4/29/05
L		
	CERTIFICATE OF	INSERVICE INSPECTION
	Inspectors and the State or Province of Arizona a inspected the components described in this Owne to 4-29-05, and state that to the	issued by the National Board of boiler and Pressure Vessel and employed by HSB CT of Hartford, Connecticut, have ear's report during the period of 4-19-05 best of my knowledge and belief, the Owner has performed escribed in this Owner's Report in accordance with the
	concerning the examinations and corrective meas	nor his employer makes any warranty, expressed or implied, sures described in this Owner's report. Furthermore, neither any manner for any personal injury or property damage or a his inspection.
	Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
	Date: 4-29-05	
•		

	ASME SECTION	N XI – REPAIR / REI	PLACEMENT				
			Pa	ge of \			
1. Component ID 2SI106H	008						
2 Item Description: snubb	<u>er</u>						
3. N-5 Data Package Numbe		4. W.O. Number	: <u>2664897</u>				
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda							
6. Original Installation Code							
7. Work Description: <u>SNU</u>	JBBER REPLACEMENT		_	·			
8. 🔲 ISI Flaw		NDE Method of Flaw	Detection:				
0. E	641	Report Number:	0-				
9. Evaluation of the suitabili		requirements of IWA - 413	0:				
Replaced due failure of	<u>ST</u>						
	•						
		•					
10. Repair/Replacement Wo	rk Organization: Arizor	na Public Service		•			
11. Replacement Items Cons	truction or reconciled Co	de/Edition: Sec. III NF C	12, 1974 Edition Winter	1975 Addenda			
12. Repair/Replacement Act	ivity Construction Code/F	Edition: Sec. III Cl 2, 197	4 Edition 1975 Winter A	.ddenda			
13. ASME Section XI Code/	Edition: 1992 Edition	and 1992 Addenda					
14. Preservice Inspection Re	quired:	☑ YES ☐ No	0	•			
Initial Date	1-14-05 If requir	ed, include a step in the W.	O. to perform Preservice	Inspection			
15. ASME Section XI Pressu	ıre Test Required:	☐ YES 🛛 N	O				
Initial Md Date 4	1-14-05 If require	ed, include a step in the W.	O. for ISI & ANII Inspec	ction.			
·/ • / //		ude a step in the W.O. to co					
Initial Date	compone	ent.	implete 1110 2 1 offin prior	r to releasing and			
Initial MM Date 4	17. Inch replacem	ude a step in the W.O. to renent items.	cord below all applicable	e numbers for repaired or			
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.			
SNUBBER	PSA-1/4W	20941	n/a	2664897			
	1011 17 17	1000	100	2001057			
		<u> </u>					
		•					
	f						
· · · · · · · · · · · · · · · · · · ·							
11 // 60	L						
18. Planner Maj	1/2 4-	Printed Name	: Martin J. Sc	illivan			
Signature		Date	<u> </u>				
10 101 60	Museum 4	lleel-e					
19. ISI Signature	Monow 4	Date Printed Name	: Alan Morro	Log Entry			
		•					
20. ANII Signalure		4-15-05 Printed Name	: KG HOUSTRO	٠			
Signalde	•	Date					

PV216-08NI (8-88)

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

· -								
1. Owner: Arizo	ona Public Service (Company, et. al.]	Date: <u>04/14/20</u>	05		
<u>P. O. J</u>	Box 53999, Phoeni	x Arizona 85072-	<u>-2034</u>	5	Sheet: 1 of	2		
2. Plant: Palo V	Verde Nuclear Gene	erating Station		τ	Unit: <u>2</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	<u>54-7529</u>	Work Order Nu	mber <u>2664897</u>	•	
3. Work Performe	ed by: Arizona Public	c Service		7	Type of Code St	tamp <u>None</u>		
				1	Authorization N	o. <u>N/A</u>		
	Expiration Date <u>N/A</u>							
4. Identification of System: <u>SI</u>								
5. (a) Applicable	Construction Code A	ASME Section III 1	VF, Class 2	<u>1974</u> Edition,	, <u>Winter 1975</u> A	ddenda, <u>N/A</u> Cod	e Case	
(b) Applicable	Edition of Section X	(I Utilized for Repa	airs or Replace	ments: <u>1992</u>	2 Edition, 1992	2 Addenda		
6. Identification of	of Components Repair	red or Replaced an	d Replacement	. Components	s			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat		Repaired or Replacement	ASME Code Stamped (Yes or NO)	
Snubber	Pacific scientific	20941	n/a	2SI106H00	⁾⁸ 81	Replacement	YES	
	·							
		·						
7. Description of V	Work: <u>Snubber rep</u>	laced due to faili	ng the ST.	•				
8. Test Conducted:	: Hydrostatic	☐ Pneumatic	☐ Nomi	inal Operatin	g Pressure	Exempt 🔀		
N-4	116-2 Other	Pressure p	psi	•	Test Temperatu	ure °F		
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include					

FORM NIS-2 (Back)					
. Remarks: Replaced snubber 2SI106H008 due to failing the ST w.o.2664897.					
Pre-Pressured Test WO Review – ISI					
ANIIN/A					
Certificate of Compliance	7				
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.					
Type Code Symbol Stamp N/A	j				
Certificate of Authorization No. N/A Expiration Date: N/A	l				
Signed: The Indap, Consulting Metallungical Engineer Date: 5/4/2005	l				
Owner or Owner's Designee, Title	1				
CERTIFICATE OF INSERVICE INSPECTION					
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-15-05 to 5-5-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.					
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.					
Commissions: NB 9685 "N" "I" AZ264 Inspectors Signature National Board, State, Province, and Endorsements					
Date:					

	ASME SECTION	XI – REPAIR / REPL	ACEMENT	•		
			" Pag	ge 1 of 1		
 Component ID <u>2CH034H</u> Item Description: <u>Item 70</u> N-5 Data Package Number Original Construction Code Original Installation Code Work Description: <u>Remo</u> ISI Flaw Evaluation of the suitabilit No failure to component 	on Line 2PCHNL034 2CH14-2 Edition: 1974 Edition, Wove Item 70 and reinstall. y of this work as per the re	Winter 1975 Addenda Vinter 1975 Addenda NDE Method of Flaw Det Report Number:		65		
Initial Date 2	ruction or reconciled Code vity Construction Code/Ed Edition: 1992 Edition arquired: \(\frac{1}{26} \)	Hedition: Sec. III NF Cl 1, ition: Sec. III NF Cl 2, 19 and 1992 Addenda YES NO I, include a step in the W.O. I YES NO I, include a step in the W.O. I he a step in the W.O. to complet. I a step in the W.O. to reconst.	to perform Preservice for ISI & ANII Inspec	Inspection tion. to releasing the		
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.		
2CH034H00A	ITEM 70	MA	WA	NA		
18. Planner Signature 19. ISI Signature 20. ANII Signature Signature	2/2	Printed Name:	FRED POT			
15. ASMN Section XI Pressure Test Required: YES NO						

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: 02/27/2004 P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: <u>1</u> of <u>2</u> 2. Plant: Palo Verde Nuclear Generating Station Unit: 2 5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2687065 3. Work Performed by: Arizona Public Service Type of Code Stamp None Authorization No. N/A Expiration Date N/A 4. Identification of System: CH: Chemical and Volumn Control 5. (a) Applicable Construction Code ASME Section III NF, Class 1 1974 Edition, Winter 1975 Addenda, ____ Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Name of Manufacturer National Other Repaired or Name of Year ASME Manufacture Serial No. Board No. Identification Built Replacement Item Code Stamped (Yes or NO) Item 70 n/a n/a n/a 2CH034H00A n/a Replacement NO

7.	Description of Work: R	<u> le-installed (</u>	weld) the hange	er item 70 pipe restraint.following	maintenance in	spection.
8.	Test Conducted: Hydros	static 🔲	Pneumatic	Nominal Operating Pressure	Exempt 🗵	N-416-1 🔲
	Other	Pressur	e psi	Test Tem	perature	۰F

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

9. Remarks: Support 2CH034H00A item 70 pipe restraint was removed under wo# 2686498 for piping inspection. The item 70 will be in-installed under DIWO# 2687065.

Certificate of Compliance						
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.						
Type Code Symbol Stamp	_N/A					
Certificate of Authorization No.		Expiration Date:	N/A			
Signed: Alan Mouron Owner or Owner's Designed		ruies Date: 3/	2/04			

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued Inspectors and the State or Province of Arizona and eminspected the components described in this Owner's reto, and state that to the best of examinations and taken corrective measures described	ployed by <u>HSB</u> port during the port my knowledge	CT of Hartford, Connecticut, have period of 2-26-04 and belief, the Owner has performed
requirements of the ASME Code, Section XI.		
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures d the Inspector nor his employer shall be liable in any maloss of any kind arising from or connected with this insp	lescribed in this anner for any pe	Owner's report. Furthermore, neither
loss of any kind arising from of connected with this his	pection.	:

PV-E0092 Ver. 7 Back 73DP-9ZZ17 Rev 8

	ASME SECTION XI - REPAIR/REPLACEMENT Page 1 of 1							
1. Component ID 2M	RCEE01A - SN#212	2. Code Cl	ass ASME Section III.	Class I				
3. Item Description St	eam Generator #1			•				
4. N-5 Package Numb	er <u>2RC01-1A</u>	5. W.O. Nu	mber <u>2687154</u>					
6. Original Construction	n Code Edition 1989 Ed	ition & No Addenda						
7. Original Installation	Code Edition 1974 Editi	on & 1975 Winter Adden	nda	· · · · · · · · · · · · · · · · · · ·				
8. Work Description In	8. Work Description Install CE roll plugs in 2MRCEE01A "Cold Leg" tubes Per Engineering DFWO# 2685754 evaluation and disposition.							
9. 🖸 ISI Flaw		lethod of Flaw Detection Report Number						
10. Evaluation of the suitability of this work as per the requirements of IWA-4150. Evaluation Per Eng-DFWO# 2685754								
·	nt Work Organization W							
•		d Code/Edition 1989 Edition 1989 Edition						
	-	ode/Edition 1974 Edition	1 & 1975 Willier Addend	<u></u>				
15. Preservice Inspect	code/Edition 1992 Edition	DI & 1992 Addenda	₽ NO					
DWS 02/27/04	•	step in the W.O. to perform	-	•				
16. ASME Section XI P	ressure Test Required	☐ YES	Ø NO					
DWS 02/27/04	•	step in the W.O. for ISI &	_					
Initial Date DWS 02/27/04	17 Include a sten in	the W.O. to complete NIS	-2 Form prior to releasin	a the component				
Initial Date DWS 02/27/04	-	the W.O. to record below		•				
tritial Date TEM LD.	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.				
Tube Plugs	0307-1601	40013385-93	NX3171HK	7333.92				
· · · · · · · · · · · · · · · · · · ·								
<i>(</i> , ,			•					
19. Planner (1) Shaffa 02/27/04 Print Name David Shaffer Date								
20. ISI Engineer	Signature	2-28-04 02/27/04 Print N	lame THAN	150 <u> </u>				
21. ANII R. F	logs tream by a	02/27/04 Print N	lame DBHAN	sen				

PV-E0090 Vor. 7

As Required by the Provisions of the ASME Code Section XI 1. Owner Arizona Public Service Company, et. al. Date 02/23/04 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2. Plant Palo Verde Nuclear Generating Station _____ Unit _____ Name 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2687154 Work Order Number _____ Type Code Symbol Stamp None 3. Work Performed by Westinghouse N/A Authorization No. 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, N/A Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired ASME Code Year Name of Name of Manufacturer National Other or Stamped Manufacturer Serial No. Board No. Identification Built Item Replacement (Yes or No) 212 2MRCEEO1A 2002 Repaired Steam Generator Ansaldo 161 Yes 7. Description of Work Plug Steam Generator Cold Leg Tubes Per DIWO# 2687154 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt 🗹 N-416-1 Test Temp. Other Pressure NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8 1/2 x 11 in., (2) information in items 1 through 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

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

FORM NIS-2	(Back)
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Remarks	DIWO #2687154,	See Eng-D	FWO#2	685754 for tube	s plugged.			
	The following is th	e tube plug i	nformatic	on:				
	,			XI-REPAIR/RE				
	COMP. ID		COL	PART NO.	SERIAL NO			MR NO
	2MRCEE01A-SN2	112 156	143	0307-1601	40013385-93	3 NX3	171HK	733382
		CERTII	FICATE	OF COMPLI	ANCE			
	y that the statement ME Code, Section 2		e report a	re correct and the	nis repair repair or replace		rms to th	ne rules
Type Co	de Symbol Stamp_	. 	N/A					
Certificat	e of Authorization N	o	N/A	·	Expiration	Date	N/A	<u> </u>
Signed <	9174 -	Owner or Own	ners Designe		ng Engr	Date	02/29/	<u>′04</u>
			,	-,				
	CE	RTIFICAT	E OF IN	NSERVICE IN	SPECTION			•
1	lersigned, holding a s and the State or F			• .			ressure	Vessel
of Har	tford, Connecticut	, have ins	spected th	ne components	described in th	is Owner's	Report	during
belief, the	d <u>ਤ-੭੪-੦੫</u> Owner has perform accordance with th	ned examina	tions and	taken corrective	measures de	•		-
By signin concernir neither th	g this certificate, ne ng the examinations e Inspector nor his or a loss of any kind	ther the Insp and corrective employer sha	ector nor ve measu all be liabl	his employer m res described in e in any manne	akes any warra this Owner's I r for any perso	Report. Fu	ırthermo	re,
	/ factor	gnature		Commissions	National Board, St			
Date	a-29-64							

	ASME SECTIO	N XI - REPAIR/R	EPLACEMENT	Page <u>1</u> of <u>1</u>
1. Component ID 2M	RCEE01A - SN#212	2. Code Cl	ass ASME Section III,	Class 1
3. Item Description St	eam Generator #1			
4. N-5 Package Numb	er 2RC01-1A	5. W.O. Nu	mber <u>2687155</u>	
6. Original Construction	n Code Edition 1989 Edi	ition & No Addenda		
7. Original Installation	Code Edition 1974 Edition	on & 1975 Winter Adden	ıda	·
	nstall CE roll plugs in 2M valuation and disposition.		es Per Engineering DFW	VO# 2685754
9. 🗹 ISI Flaw	NDE M	lethod of Flaw Detection .	Eddy Current Testing	
	uitability of this work as peg-DFWO# 2685754	• —	A-4150.	
•	nt Work Organization W		tion & No Addenda	
	nt Activity Construction Co		a & 1975 Winter Addend	<u>la</u>
14. ASME Section XI C	code/Edition 1992 Editio	n & 1992 Addenda		
15. Preservice Inspect	-	YES yee yeer YES step in the W.O. to perfor	NO Preservice Inspection	
DWS 02/27/04 Initial Date		0.0p a.o 0o. to poo.	roodingo mapodion.	
16_ASME Section XI P	ressure Test Required	YES	☑ NO	
DWS 02/27/04	_ If required, include a s	step in the W.O. for ISI &	ANII Inspection.	
DWS 02/27/04	17. Include a step in t	the W.O. to complete NIS	i-2 Form prior to releasin	g the component.
DWS 02/27/04	18. Include a step in t	the W.O. to record below	all applicable numbers for	or replacement items.
ITEM I.D.	PART NO.	SERIAL NO.	HEAT NO.	MR/PO/WO NO.
Tube Plugs	0307-1601	40013385-94	PX317/HK	733382
				<u> </u>
· · · · · · · · · · · · · · · · · · ·				
19. Planner Dlu	Signature / cg	02/27/04 Print N	lame David Shaffer	
20. ISI Engineer	Add — Signature	228-04 Print N	iame <u>DAHA</u>	UEN
21. ANII R. F	to 5 stram by 1	7777 2-28-04 Print N	lame <u>DBHA</u>	zoer

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 02/29/04 P.O. Box 53999, Phoenix, Arizona 85072-2034 Sheet 1 of 2 2. Plant Palo Verde Nuclear Generating Station Unit 5801 S. Wintersburg Rd., Tonopah, Arizona 85354-7529 2687155 Work Order Number 3. Work Performed by Westinghouse Type Code Symbol Stamp Authorization No. N/A 911 W. Main St. Chattanooga, TN. 37402 Expiration Date N/A Reactor Coolant (RC) 4. Identification of System 5. (a) Applicable Construction Code ASME Sect.III CL.1 1989 Edition, N/A Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements 1992 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Repaired **ASME Code** Manufacturer National Year Name of Name of Other or Stamped Board No. Identification Built Manufacturer Item Serial No. Replacement (Yes or No) Ansaldo 212 161 2MRCEEO1A 2002 Repaired Yes Steam Generator 7. Description of Work Plug Steam Generator Hot Leg Tubes Per DIWO #2687155 Pneumatic Nominal Operating Pressure Exempt N-416-1 8. Test Conducted: Hydrostatic Pressure psi Test Temp.

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.

Other |

FORM NIS-2 (Back)

 9. F	Remarks	DIWO #2687155, See	ENG-I	FWO#	2685754 for to	ıbes plugged.		<u> </u>
		The following is the tu	be plug	informa	ation:			
		COMP. ID		COL		/REPLACEMEN SERIAL NO.	T HEAT NO.	MR NO.
		2MRCEE01A-SN212		143	0307-1601	40013385-94	NX3171HK	733382
Γ	·····		CERT	FICAT	TE OF COM	PLIANCE		
		y that the statements ma	ade in ti	ne repoi	rt are correct a	nd this repair replac	conforms to	the rules
	Type Co	de Symbol Stamp		N/A	····································	·····		
	Certificat	e of Authorization No		N/A	·	Expiratio	n DateN	//A
	Signed	DA11-	_		Sr. Cons	ulting Engr	Date 02/	29/04
	-	1977	wner or Ov	vner's Desi	gnee, Title			
L								
_						_		
•		CERT	TFICA	TE OF	INSERVICE	EINSPECTION		
		lersigned, holding a valid s and the State or Provi			-			re Vessel
	•	tford, Connecticut	-					ort during
		d <u> </u>						
		Owner has performed accordance with the rec					scribed in this C	wner's
İ								
	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 Signatur			Commissio	National Board, S	"A, N, I,C" Az	
		A makeon a cignatus	-					
	Date	2-24-64		-				
L								

ASME SECTION XI - REPAIR/REPLACEMENT							
1. Component ID 2PS	GEL011	2. Code C	lass ASME Section III	Class 2			
3. Item Description Pi	pe Spool						
4. N-5 Package Numb	er 2SG02-2	5. W.O. Nu	umber <u>2689066</u>				
6. Original Constructio	n Code Edition 1974 Ed	ition, Summer 1975 Add	enda				
7. Original Installation	Code Edition 1974 Editi	on, Winter 1975 Addend	la	· · ·			
8. Work Description_Replacement of Pipe spool due to Flow Accelerated Erosion Corrosion, DIDM 2689065 EDC#							
9. ISI Flaw	NDE M	lethod of Flaw Detection	N/A				
		Report Number N					
10.' Evaluation of the suitability of this work as per the requirements of IAW-4150. Replacement of Eroded piping with Stainless Steel as Described in DIDM 268906, EDC# 2004-00228. There was no failure of the Code Pressure boundry.							
11. Repair/Replacemen	nt Work Organization AF	28					
12. Replacement Item (Construction or reconciled	d Code/Edition Sec.III C	12/74 Edition '75 Summ	ner Addenda			
13. Repair/Replacemen	nt Activity Construction Co	ode/Edition Sec.III Cl.2/	'74 Edition '75 Winter A	ddenda			
14. ASME Section XI C	ode/Edition 1992 Edition	n and 1992 Addenda					
15. Preservice Inspection Required. YES NO Vota 15 No Preservice Inspection. Initial Date No. 15 Date No. 15 Preservice Inspection.							
16. ASME Section XI Pi	ressure Test Required	Ø Y	ES 🔲 NO				
ties blust	•	a step in the W.O. for IS					
Initial Date		•	·	asing the component.			
Initial Date Post 18. Include a step in the W.O. to record below all applicable numbers for repaired or							
Initial , Date	replacement it	SERIAL NO.	HEAT NO.	MR/ROS NO.			
8" Stainless Steel Pipe	APN 00061187		455385	MR# 873435			
8" S.S. Elbow 90 Deg.	APN 00067691		MBHZ-1	MR# 873435			
8" Carbon Steel Pipe	APN 00064731		(66845	Po. 500261840			
8"Studen PRE	APH acalust		385840	MR# 753958			
				<u> </u>			
		• .					
19. Planner Karl V. Savage Signature Date Print Name Karl V. Savage							
20. ISI Engineer Signature Print Name Ramakant P. Indap							
21. ANII 9-15-04 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: 05/04/2005				
P. O. Box 53999, Phoenix Arizona 85072-2034					Sheet: <u>1</u> of <u>2</u>			
2. Plant: Palo Verde Nuclear Generating Station					Unit: <u>2</u>			
<u>5801 S</u>	outh Wintersburg	Road., Tonopah,	Arizona 8535	54-7529	Work Order Number 2689066			
3. Work Performe	d by: <u>Arizona Publi</u>	Service Co.			Type of Code St	amp <u>None</u>		
	5801 S. Winter	sburg Rd Tonopal	h, Arizona, 85	354-7529	Authorization N	o. <u>N/A</u>		
				1	Expiration Date	<u>N/A</u>		
4. Identification of	f System: <u>SG</u>							
5. (a) Applicable	Construction Code A	ASME Section III N	IC, Class 2	1974 Edition	, Winter 1975 A	ddenda, <u>N/A</u> Cod	e Case	
(b) Applicable	Edition of Section X	II Utilized for Repa	irs or Replace	ments: <u>199</u> 2	2 Edition, 1992	Addenda		
6. Identification of	Components Repai	red or Replaced and	d Replacement	Component	s			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Repaired or Replacement	ASME Code Stamped (Yes or NO)	
8" Pipe Spool	N/A	N/A	N/A	2PSGEL011	2005	Replacement	No	
/								
·								
	,							
7. Description of Work: Replaced pipe spool due to flow accelerated corrosion of the original piping.								
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-2								
Other Pressure psi Test Temperature F								
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM NIS-2 (Back)

9. Remarks: Work Order 2689066. Replaced 8" Spool S-004 of Line 2PSGEL011 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. Type Code Symbol Stamp	the therapie Test therewas about Daner: 151: dem monon								
the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date: N/A Signed: N/A Signed: N/A CERTIFICATE OF INSERVICE INSPECTION I the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, havinspected the components described in this Owner's report during the period of 1.2-05 to 5-16-05, and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection.	• · · · · · · · · · · · · · · · · · · ·								
Certificate of Authorization No. N/A Expiration Date: N/A Signed: Alan Morow TST Engine Date: S/16/05 Owner or Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION Lythe undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-05 to 5.16-05, and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection. **NB 9088 **N**** The MAZZ64*** Commissions: **NB 9088******* **NB 9088********* Commissions: **NB 9088******** **NB 9088********* **NB 9088********* **NB 9088********* **NB 9088********* **NB 9088********** **NB 9088********** **NB 9088********* **NB 9088********** **NB 9088********** **NB 9088*********** **NB 9088*********** **NB 9088************** **NB 9088*************** **NB 9088***********************************									
CERTIFICATE OF INSERVICE INSPECTION If the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-0.5 to 5.16-0.5 and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection. **DESCRIPTION** **OWNET** OF INSERVICE INSPECTION* **OPTION** **OWNET** OF INSERVICE INSPECTION **DESCRIPTION** **OPTION** **OWNET** OF INSERVICE INSPECTION **DESCRIPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION** **OPTION**	Type Code Symbol Stamp N/A								
CERTIFICATE OF INSERVICE INSPECTION If the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-0.5 to 3.10-0.5, and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection. **Commissions: **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-9685 **NB-96	Certificate of Authorization No. N/A Expiration Date: N/A								
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-05 to 5-16-05, and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection. Commissions: NB 9685 N 4 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44 APT 44	Signed: Alan Monow IST Engineer Date: 5/16/05 Owner or Owner's Designee, Title								
Lythe undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vesse Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-05 to 5-16-05, and state that to the best of my knowledge and belief, the Owner has performe 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 loss of any kind arising from or connected with this inspection. Commissions: NB 9685 NB UT 448 405	CEDTIFICATE OF INCEDIUCE INCDECTION								
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 loss of any kind arising from or connected with this inspection. **B 9685 N**** WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WAR AND WA	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4.2-05 to 5-16-05, 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								
William T Kolor Commissions: NB 9685 "N" "I" AZZ64-5" 140 5	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								
Inspectors Signature National Board, State, Province, and Endorsemen Date: 5-16-05	Inspectors Signature No. 8098 ANI W49 S National Board, State, Province, and Endorsements								

ASME SECTION XI – REPAIR / REPLACEMENT							
·	<u> </u>	·	Pa	geof_			
1. Component ID 2JECALV	<u>′0015</u>						
2 Item Description: <u>ECWS</u>	Expansion Tank Level Cont	trol Valve		•			
3. N-5 Data Package Number	: <u>2EC01-4</u>	4. W.O. Number: 2	691433				
5. Original Construction Cod	le Edition: 1974 Edition, W	Vinter 1975 Addenda	•				
6. Original Installation Code	Edition: 1974 Edition, Win	nter 1975 Addenda		•			
7. Work Description: Repl							
8. ISI Flaw		NDE Method of Flaw Det	ection:				
		Report Number:	•				
9. Evaluation of the suitabilit	y of this work as per the requ	uirements of IWA - 4150:					
No failure of ASME bour	ndry. Trouble shoot and rewo	ork seat leakage. Replace b	onnet to body seal we	<u>eld.</u>			
				•			
	·						
10. Repair/Replacement Wor	k Organization: Arizona P	ublic Service		1			
11. Replacement Items Cons	truction or reconciled Code/E	Edition: Sec. III Cl 3, 197	74 Edition 1975 Winter	er Addenda			
12. Repair/Replacement Acti	vity Construction Code/Editi	ion: <u>Sec. III Cl 3, 1974 E</u>	dition 1975 Winter A	<u>ddenda</u>			
13. ASME Section XI Code/	Edition: 1992 Edition and	1992 Addenda	•				
14. Preservice Inspection Rec	quired:	☐ YES 🗵 NO					
Initial 410 Date 7	/1/04 If required i	include a step in the W.O.	to perform Preservice	Inspection			
,	•		to perioriii i reservice	nispection			
15. ASME Section XI Pressu		☐ YES ☑ NO					
Initial LEO Date 7/2	21/04 If required, i	include a step in the W.O.	for ISI & ANII Inspec	ction.			
Initial LEO Date 7/2		a step in the W.O. to comp	olete NIS-2 Form prio	r to releasing the			
· · · · · · · · · · · · · · · · · · ·		•	•				
Initial LEO Date Z	17. Include	a step in the W.O. to recor	d below all applicable	numbers for repaired or			
	2//09 replacement	items.	·	<u> </u>			
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.			
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1 0	· · · · · · · · · · · · · · · · · · ·						
18. Planner Signature	under 7/3/	Printed Name:	G OSMUND	50~			
				,			
19. ISI Juffer Signature	Tul 7/21	Printed Name:	F- POTEE	T			
Signature	Da	te		•			
20. ANII Rh Lyture	7-21-	or Printed Name:	R/x. HOGSTROM	۲.			
Signature	Dat	te I I I I I I I I I I I I I I I I I I I					

PV-LUU93 Var. 7

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: 08/17/04								
P. O. Box 53999, Phoenix Arizona 85072-2034				Sheet: $\underline{1}$ of $\underline{1}$				
2. Plant: Palo Verde Nuclear Generating Station				Unit:	<u>2</u>		-	
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	4-7529	Work	Order Nun	nber 2691433	•
3. Work Performe	d by: <u>Arizona Publi</u>	Service Co.			Туре	of Code Sta	amp <u>None</u>	
	5801 S. Winter	sburg Rd., Tonopal	n, Arizona, 853	54-7529	Author	rization No	o. <u>N/A</u>	
					Expiration Date <u>N/A</u>			
4. Identification o	f System: 2-EC01-	<u>4</u>			,			
5. (a) Applicable	Construction Code A	ASME Section III N	ID, Class 3 1	974 Edition	ı, <u>Wint</u>	er 1975 A	ddenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section >	KI Utilized for Repa	irs or Replace	ments: <u>199</u>	2 Edit	ion, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Componen	ts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped
						•	·	(Yes or NO)
Valve	Target Rock	3	N/A	2JECAL	V015	1978	Repaired	Yes
			·					
								·
·	·		·					
								•
							. ,	•
7. Description of Work: Reworked (lapped) main disc & replaced seal weld to correct seat leakage.								
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1								
Other Pressure psi Test Temperature F								
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

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9. Remarks: WO# 2691433, Reworked (lapped) main disc and replace seal weld to correct seat leakage.

Certificate of Compliance						
We certify that the statements made in the the ASME Code, Section XI.	e report are correct	and this replacement conform	s to the rules of			
Type Code Symbol Stamp	N/A					
Certificate of Authorization No.		Expiration Date:				
Signed: Pholip, (onsulting) Owner or Owner's Do	Metallunia esignee, Title	1 Engineer Date: 8/	17/04			

CERTIFICATE OF INSERVICE INSPECTION

·	•
	nployed by HSB CT of Hartford, Connecticut, have
	٠,
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any magnetic form of any kind arising from or connected with this inspector.	described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a
First Ly Large Turne Vinspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Data: 8-17-04	·

PV-E0092 Ver. 7 Back

ASME SECTION XI – REPAIR / REPLACEMENT

			Pa	ige of					
1. Component ID 2JCHNPS		•							
2 Item Description: CROS	BY RELIEF VALVE								
3. N-5 Data Package Number		4. W.O. Number: 20	592100						
5. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda									
6. Original Installation Code									
7. Work Description: VAI				•					
S. ISI Flaw NDE Method of Flaw Detection: N/A									
	Report Number: N/A								
9. Evaluation of the suitabili	ty of this work as per the r	•							
-	•	valve is being installed to exp	adita made						
Not a faiture of the Astri	to presure boudary. Spare	valve is being instaned to exp	eane work.						
•	truction or reconciled Code vity Construction Code/Edition: 1992 Edition a quired: 1992 Edition a frequired: 1992 Edition a frequired: 1992 Edition a frequired: 1992 Edition a frequired: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1993 If required: 1995 If required: 1995 If required: 1995 If required: 1995 If required: 1996 If required: 1997 If required: 1997 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If required: 1998 If req	e/Edition: Sec. III Cl 2, 197d Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec. III Cl 2, 1974 Edition: Sec.	o perform Preservice or ISI & ANII Inspec	Inspection ction. or to releasing the					
Initial Date	replaceme								
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.					
2JCHNPSV0115	APN 45000473	N 41177-00-000)	NA	277 1446					
									
•			······································						
	W-200								
18. Planner <u>Rowald</u> Signature	2 ml 1-4	Printed Name:	DAVID GOOL	DET					
9. ISI Clan	Monow	1-7-05 Printed Name:	Alan Morra	Log Entry an					
Signature	•	Date							
20. ANII TA Lotus	,	Printed Name:	R.G. HOLESTREA	1					
Signature		Date Printed Name:							
5/									

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI 1. Owner: Arizona Public Service Company, et. al. Date: 01/04/2004 P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 22. Plant: Palo Verde Nuclear Generating Station Unit: 2 5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2692100 3. Work Performed by: Arizona Public Service Type of Code Stamp None Authorization No. N/A Expiration Date N/A 4. Identification of System: CHEMICAL AND VOLUME CONTROL 5. (a) Applicable Construction Code ASME Section III NC, Class 2 1974 Edition, Summer 1976 Addenda, _____ Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Name of Manufacturer National Repaired or Name of Other Year ASME Item Manufacture Serial No. Board No. Identification Built Replacement Code Stamped (Yes or NO) VALVE **CROSBY** N61177-00n/a 2JCHNPSV Replacement YES 1978 0001 0115 7. Description of Work: REPLACEMENT OF VALVE 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-2 Other Pressure ____ psi Test Temperature

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches. (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

EODM NIC 2 (Pools)	
FORM NIS-2 (Back)	
 Remarks: <u>VALVE 2JCHNPSV0115 WAS REPLACED WITH A SPARE VALVE UNDER 269210 WORK ACTIVITY.</u> 	10 TO EXPIDITE
WORK ACTIVITY.	
Pre-Pressured Test WO Review - ISI Monou	
Pre-Pressured Test WO Review - ISI ANII Refirm	
ANI	
Certificate of Compliance	
We certify that the statements made in the report are correct and this replacement conforms to ASME Code, Section XI.	o the rules of the
Type Code Symbol StampN/A	
Certificate of Authorization No N/A · Expiration Date:	N/A
Certificate of Authorization No. N/A Expiration Date: Signed: Alan Monow IST Engineer Date: 5/4	16/05
Owner or Owner's Designee, Title	
	######################################
· <u></u>	
CERTIFICATE OF INSERVICE INSPECTION	
	·
I, the undersigned, holding a valid commission issued by the National Board of boiler and Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Co	Pressure Vessel
inspected the components described in this Owner's report during the period of $\frac{4-2-05}{4}$	onnecticut, have
to 5-16-05, and state that to the best of my knowledge and belief, the Owner or and taken corrective measures described in this Owner's Report in account.	
examinations and taken corrective measures described in this Owner's Report in according requirements of the ASME Code, Section XI.	idance with the
	ĺ
	1

16-08NI (8-88) 73DP-9ZZ17 Rev 9

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

NB8098 ANI

National Board, State, Province, and Endorsements

Commissions: NB 9685 (API 1911 A 7264

loss of any kind arising from or connected with this inspection.

Inspectors Signature

5-16-05

·	ASME SECTION	XI - REPAIR / REP	PLACEMENT					
			Pa	igeiofl				
1. Component ID 2JCHNP	SV0345	2. Code Class A	ASME Section III Class	<u>2</u>				
3. Item Description: Crosb			•	•				
4. N-5 Data Package Number: <u>2CH13-1</u> 5. W.O. Number: <u>2692107</u>								
6. Original Construction Code Edition: 1974 Edition, Summer 1976 Addenda								
7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda								
8. Work Description: Remove valve and replace with tested spare. 9. ISI Flaw NDE Method of Flaw Detection:								
9. ISI Flaw NDE Method of Flaw Detection: Report Number:								
10. Evaluation of the suitable	lity of this work as ner the i	•	50.					
_	failure. Valve is being repl			tima				
	tatture. Valve is being repr	aced with spare to minim.	ze mannenance outage i	uttic.				
11. Repair/Replacement Wo	els Occapionsions - Asimona	Public Consiss						
12. Replacement Items Cons		•	974 Edition 1976 Sumr	ner Addenda				
13. Repair/Replacement Act								
14. ASME Section XI Code.	•	nd 1992 Addenda	- Damon 1970 Francis					
15. Preservice Inspection Re		☐ YES 🖾 NO)					
Initial Day 5 Date 4		I, include a step in the W.C		Inspection				
16. ASME Section XI Press	•	X YES □ N	-	. Alspection .				
_	•	l, include a step in the W.C	•	ction.				
tintial _V Date								
Initial My Date 7	-17-05 componen		/ / / / / / / / / / / / / / / / / / /	in to totaling the				
Initial Pags Date	4-17-05 18. Include replaceme	le a step in the W.O. to rec nt items.	ord below all applicable	e numbers for repaired or				
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
2JCHNPSV0345	APN 45000476	N61180-00-0008	π/a	WO 2606004				
			1.					
······································								
·								
O Pro	N DPL							
19. Planner Signature	1 birt 19 4	Printed Name	: David Goodlet					
Signature .								
20. ISI Celan 1		8/05 Printed Name	: Alan Morro	<u>w</u>				
Signature	Signature Date							
21. ANII Zh Tython	4-	18-05 Printed Name	: RG HOUSTR	om				
		Date						

1. Owner: Arizona Public Service Company, et. al. Date: 4/17/2005								
<u>P. O. 1</u>	<u>P. O. Box 53999, Phoenix Arizona 85072-2034</u> Sheet: <u>1</u> of <u>2</u>							
2. Plant: Palo V	2. Plant: Palo Verde Nuclear Generating Station Unit: 2							
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2692107								
3. Work Performe	ed by: <u>Arizona Publi</u>	c Service		Ty	e of C	ode Stamp	None None	
	Authorization No. N/A							
				Exp	oiration	Date N/	<u>'A</u>	••
4. Identification o	f System: <u>CH: Che</u>	mical and Volumn Co	ontrol Syster	<u>n</u>				
5. (a) Applicable	Construction Code A	ASME Section III NC	Class 2	<u> 1974</u> Edition, <u>S</u>	ımmer	<u>1976</u> Add	enda, Co	de Case
(b) Applicable	Edition of Section 2	A Utilized for Repair	s or Replace	ments: <u>1992 E</u>	dition.	. 1992 Ac	ldenda	
6. Identification o	f Components Repai	red or Replaced and I	Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	ion	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Valve	Crosby	N61180-00-0008	n∕a	2JCHNPSV03	345	1486	Replacement	YES
					·····			
							· · ·	
								•
·	•						·	
7. Description of V	Work: <u>Install spare</u>	valve.	<u> </u>		- -	·	<u> </u>	
8. Test Conducted	: Hydrostatic	Pneumatic [Nomi	inal Operating P	ressure		Exempt	
N-4	116-2 [] Other	Pressure psi	i	Te	st Ten	 nperature	°F	
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

7. Remarks: Valve 2JCHNPSV0345 was replaced with spare under wo# 2692107 to reduce maintenance down time.
•
Pre-Pressured Test WO Review - ISI Alan Monow 4/22/05
Pre-Pressured Test WO Review - ISI <u>Alan Monow 4/22/05</u> ANII Zo form
ANII ANII
N .
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.
Tỳpe Code Symbol StampN/A
Certificate of Authorization No. N/A Expiration Date: N/A'
Certificate of Authorization No. N/A Expiration Date: N/A' Signed: Alan Monor ISC Engineer Date: 5/10/05 Owner or Owner's Designee, Title
Owner or Owner's Designer. Title
·
CERTIFICATE OF INSERVICE INSPECTION
CERTIFICATE OF INSERVICE INSIDECTION
1
1 /
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State of Province of Arizona Indiamployed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of $\frac{5/2-0.5}{}$, and state that to the best of my knowledge and belief, the Owner has performed
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of
inspected the components described in this Owner's report during the period of

	ASME SECTION	(A) – REPAIR / REP	LACEMENI Pa	ge of
 Component ID 2JSPAPS Item Description: PSV N-5 Data Package Number Original Construction Code Original Installation Code Work Description: VAL ISI Flaw Evaluation of the suitability Replaced valve due to discorp. for analysis. 	: 2SP01-2 le Edition: 1974 Edition Edition: 1974 Edition, VE REPLACEMENT by of this work as per the r	Winter 1975 Addenda NDE Method of Flaw I Report Number:	2692282 Detection:	
15. ASME Section XI Pressu Initial Date	truction or reconciled Cocvity Construction Code/E Edition: 1992 Edition a quired: 1992 Firequire 1990 If require 1990 If require 1990 If require 1990 If require 1990 If require 1990 If require	de/Edition: Sec. III Cl 3, 1 dition: Sec. III Cl 3, 1974 and 1992 Addenda YES No d, include a step in the W.C YES No d, include a step in the W.C de a step in the W.C de a step in the W.O. to cont. de a step in the W.O. to rec	Edition 1975 Winter A O. to perform Preservice O. for ISI & ANII Inspec	Inspection ction. or to releasing the
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
TARGET ROCK PSV	76Q-05	1014 art 4-13-55 12 2-4	n/a	2692282
TAROLI ROCK 15V	700-03	X2	IVA	2092202
				
	·			
18. Planner Signature 19. ISI Signature	3 4-8	Date Printed Name	: Martin J Sullivan : Razz T L BROCE : RG HOGSTRO	- woLog EntryRLB
20. ANII Signature		Date Printed Name	KK TOKOTKO	· · · · · · · · · · · · · · · · · · ·

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Owner: Arizo	na Public Service	Company, et. al.		I	Date:	04/09/200	<u>)5</u>	
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2								
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2692282								
3. Work Performe	3. Work Performed by: Arizona Public Service Type of Code Stamp None							
Authorization No. N/A								
				E	xpira	ition Date	<u>N/A</u>	
4. Identification o	f System: <u>SP</u>							
5. (a) Applicable	Construction Code 2	ASME Section III N	ND, Class 3	1974 Edition,	Sum	mer 1976 A	Addenda, <u>N/A</u> Co	de Case
(b) Applicable	Edition of Section 2	KI Utilized for Repa	airs or Replace	ments: <u>1992</u>	Edit	ion, 1992	Addenda	
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	ion	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
SP PSV	target rock	24	n/a	2JSPAPSV	143	2005	Replacement	YES
		•						
				· · · · · · · · · · · · · · · · · · ·				
7. Description of V	Vork: valve repalc	ement due to disc	stuck into s	eat.			<u> </u>	
8. Test Conducted:	Hydrostatic	Pneumatic	☐ Nomi	nal Operating	g Pres	ssure 🔀	Exempt	
N-4	16-2 Other	Pressure r	osi		Test '	Temperatu	re °F	
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include					

FORM NIS-2 (Back)
9. Remarks: Replaced the valve under w.o. 2692282, Removed valve will be sent to target rock corp. for analysis
Pre-Pressured Test WO Review - ISI
ANII
Certificate of Compliance
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date: N/A
Signed: Alan Mouow IST Engineer Date: 4/15/05 Owner or Owner's Designee, Title
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 <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have inspected the components described in this Owner's report during the period of <u>~-a-os</u> to <u>~-a-os</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 4-15-05

1. Owner: Arizona Public Service Company, et. al. Date: 05/07/05							
<u>P. O. I</u>	Box 53999, Phoeni	S	heet: <u>1</u> of	<u>2</u> .			
2. Plant: Palo V	Verde Nuclear Gen	บ	Init: <u>2</u>	•			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 W	Vork Order Nun	nber 2692582	
3. Work Performe	ed by: <u>Arizona Public</u>	c Service Co.		Т	ype of Code St	amp None	
	5801 S. Winter	rsburg Rd., Tonopal	h, Arizona, 853	354-7529 A	uthorization No	o. <u>N/A</u>	
			•	E	Expiration Date N/A		
4. Identification of	f System: SI		-			•	
5. (a) Applicable	Construction Code £	ASME Section III 1	VB, Class 1 1	1974 Edition,	Winter 1975 A	ddenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section X	্রা Utilized for Repa	irs or Replace	ments: <u>1992</u>	Edition, 1992	Addenda	
6. Identification of	f Components Repair	red or Replaced an	d Replacement	. Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificati	Year On Built	Repaired or Replacement	ASME Code Stamped (Yes or
14" Check Valve	Borg Warner	. 31505	1020	2PSIEV22	7 1978	Repaired	NO) Yes
Bonnet	Borg Warner	15	N/A	2X63	1978	Replaced	Yes
Disc	Borg Warner	17	N/A	2X49	1978	Replaced	Yes
Bonnet	Borg Warner	12	N/A	N/A 2X60 1978 Replacement		Yes	
Disc	Borg Warner	20	N/A	2X52	1978	Replacement	Yes
,	·						`
7. Description of V	Work: Replaced the	bonnet/arm/disk as	ssembly to com	rect seat leaka	ge.		
8. Test Conducted:	8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-2						
Oth	er Pressu	ure psi		,	Test Temperatu	re °F	
,							1
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.							

FORM NIS-2 (Back)

FORM NIS-2 (Back)	
 W.O. 2692582 replaced bonnet/arm/disc assembly, with reworked bonnet (s/n 12) arm and disk (s/n 20) asser originally installed in 3PSIEV237 (Borg-Warner valve s/n 32620 N.B. 1075 built 1978) removed under W.O. and reworked under W.O. 2748687. 	
Pre-Pressure Test Work Order Review: ISI: Clan Money	
ANII: 25 Later	•
Certificate of Compliance	·
We certify that the statements made in the report are correct and this repair conforms to the rules of ASME Code, Section XI.	the .
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date: N/A	
Signed: alen Morrow ISI Engineer Date: 5/17/05	
Owner or Owner's Designee, Title	.
	 1
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressu	
Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connection inspected the components described in this Owner's report during the period of $\frac{\cancel{4}-\cancel{2}-\cancel{0}}{\cancel{5}-\cancel{16}\cdot\cancel{0}}$, and state that to the best of my knowledge and belief, the Owner has pexaminations and taken corrective measures described in this Owner's Report in accordance requirements of the ASME Code, Section XI.	cut, have
9.	originally installed in 3PSIEV237 (Borg-Warner valve s/n 32620 N.B. 1075 built 1978) removed under W.O. and reworked under W.O. 2748687. Pre-Pressure Test Work Order Review: ISI:

	ASME SECTION	AI - REPAIR / REPL	ACEMENT		
			. Pa	ge of	
 Component ID <u>2PCHNV8</u> Item Description: <u>CHEC</u> N-5 Data Package Number Original Construction Code Original Installation Code Work Description: <u>SEA</u> ISI Flaw Evaluation of the suitabilit <u>No failure to ASME Sections pections.</u> 	K VALVE : 2CH14-2 e Edition: 1974 Edition, We Edition: 1974 Edition, We Edition and Edition are the received by of this work as per the received.	Vinter 1975 Addenda R REWORK OF SEAT AN NDE Method of Flaw De Report Number:	ID DISC tection:	ernals for ISI	
10. Repair/Replacement Wor 11. Replacement Items Const 12. Repair/Replacement Acti 13. ASME Section XI Code/I 14. Preservice Inspection Rec Initial Ong Date 8- 15. ASME Section XI Pressu Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Initial Dung Date 8- Init	ruction or reconciled Code vity Construction Code/Edition: 1992 Edition and ruired: 3) - 2004 If required re Test Required: 16. Include component	ition: Sec. III Cl 1, 19 ition: Sec. III Cl 1, 1974 I ad 1992 Addenda YES NO i, include a step in the W.O. I, include a step in the W.O. I, include a step in the W.O. I, include a step in the W.O. I, include a step in the W.O. Ide a step in the W.O. to com t.	Edition 1975 Winter A to perform Preservice for ISI & ANII Inspec plete NIS-2 Form prio	Inspection etion.	
InitialDate	731-2004 replacemen	le a step in the W.O. to recont items.	rd below all applicable	: numbers for rep	arred or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/W	O No.
Bonnet seal weld	N/A	N/A	N/A	N/A	
		·			
18. Planner Signature 19. ISI Signature 20. ANII Signature Signature	eg 9/14 9-15	Date Trinica Ivaine.	DAVID GOE R. P. J. R. G. HOGSTRON	· · · · · · · · · · · · · · · · · · ·	>
PV-E0093 Ver. 7				73DF	-9ZZ17 Rev \$

PV-E0093 Ver. 7

1. Owner: Arizona Public Service Company, et. al. Date: 08/26/2004								
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: <u>1</u> of <u>2</u>								
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
<u>5801 S</u>	South Wintersburg	Road., Tonopah.	Arizona 8535	5 <u>4-7529</u> V	Work O	rder Num	iber <u>2692626</u>	
3. Work Performe	d by: Arizona Public	Service		r	Type of	Code Sta	mp <u>None</u>	
				A	Authorization No. <u>N/A</u>			
				F	Expirati	on Date	<u>N/A</u>	
4. Identification o	f System: <u>CHEMIC</u>	CAL AND VOLUM	E CONTROL	(CH)				
5. (a) Applicable	Construction Code 2	ASME Section III N	NB, Class 1	1 <u>974</u> Edition,	Winter	<u>r 1975</u> Ad	ldenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section 3	I Utilized for Repa	airs or Replace	ments: <u>1992</u>	Edition	on, 1992	<u>Addenda</u>	
6. Identification o	f Components Repai	red or Replaced and	d Replacement	Components	.			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	ion	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Bonnet seal weld	Borg Warner	57652	n/a	2PCHNV80	07 1	1980	Replacement	YES
							·	
	٠							
7. Description of Work: SEAL WELD VALVE BONNET REMOVED FOR ISI INSPECTION								
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-1								
Other Pressure psi Test Temperature °F								
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

Remarks: W.O. 2692626 For valve 2PCHNV807. Seal weld removed from bonnet so valve could be disassembled for ISI inspection

Certificate of Compliance We certify that the statements made in the report are correct and this repair conforms to the rules of the Type Code Symbol Stamp ______N/A______

Owner or Owner's Designee, Title

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

ASME Code, Section XI.

Signed: Alan Monow ISI Engineer Date: 4/21/05

CERTIFICATE OF INSERVICE INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford</u> , <u>Connecticut</u> , have
inspected the components described in this Owner's report during the period of 4-15-05
to, 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.

25:4	Gn
()	Inchestore Signature

Commissions: NB 9685 "N" "I" AZ264

National Board, State, Province, and Endorsements

	ASME SECTION	I XI – REPAIR / REP	LACEMENT	
	·		. Pa	geof
 Component ID <u>2SI123H0</u> Item Description: <u>Pipe St</u> 			•	
3. N-5 Data Package Number		4. W.O. Number:	2693355	·
5. Original Construction Cod				
6. Original Installation Code				
7. Work Description: Replace				
8. 🔲 ISI Flaw		NDE Method of Flaw I	Detection:	
		Report Number:		
9. Evaluation of the suitabilit	y of this work as per the i	requirements of IWA - 4150	0:	
The snubber is being repl	aced for precautionary m	easures. This is a like for lil	ke replacement.	
			•	
10. Repair/Replacement Wor	k Organization: Arizon	a Public Service		
11. Replacement Items Const	ruction or reconciled Coo	de/Edition: Sec. III NF Cl	1, 1974 Edition Winter	1975 Addenda
12. Repair/Replacement Acti	vity Construction Code/E	dition: Sec. III NF CI 1, 1	1974 Edition Winter 197	'5 Addenda
13. ASME Section XI Code/I	Edition: 1992 Edition:	and 1992 Addenda		
14. Preservice Inspection Rec	quired:)	
InitialDWS Date04	1/15/2004 If require	ed, include a step in the W.C	O. to perform Preservice	Inspection
15. ASME Section XI Pressu	re Test Required:	☐ YES ⊠ N	0	
InitialDWS Date04	1/15/2004 If require	ed, include a step in the W.C	D. for ISI & ANII Inspec	ction.
	16. Inclu	ide a step in the W.O. to co	mplete NIS-2 Form prio	or to releasing the
InitialDWSDate04	1/15/2004_ compone		:	•
InitialDWS_Date(ude a step in the W.O. to recent items.	cord below all applicable	e numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
3 Kip Snubber	1801106-05	9219	N/A	
5 Kip olidooci	1001100-03	7217	N/A	
· · · · · · · · · · · · · · · · · · ·				
	···			
·		ì		
		- 		
18. Planner Dw J	leeffer 4/	Printed Name	e: <u>David Shaffer</u>	<u></u>
•		/	477	a
19. ISI	SU-1 4/1	5/0U Printed Name	" L. L. 160	20.11
Signature		Date	1-1-1-00	BLALD WIELDIN
20. ANII Re trystone	ithis certailable	Date Printed Name Printed Name Printed Name Printed Name	ctod later to	1 1 KUULU - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Signature		Date Trinica Ivania		

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	ona Public Service (Company, et. al.	et. al. Date: 04/15/2004							
<u>P. O.</u>	P. O. Box 53999, Phoenix Arizona 85072-2034						Sheet: <u>1</u> of <u>2</u>			
2. Plant: Palo	Verde Nuclear Gen	erating Station			Unit: <u>2</u>					
5801	South Wintersburg	Road., Tonopah,	Arizona 8535	54 - 7529	Work Or	der Num	ber <u>2693355</u>			
3. Work Perform	ed by: Arizona Public	Service		,	Type of C	Code Sta	mp <u>None</u>			
					Authorization No. N/A					
٠.					Expiratio	n Date	<u>N/A</u>			
4. Identification of	of System: Safety In	jection (SI)	,	974 /21	LB-4-16	604 /	4-16-04			
5. (a) Applicable	of System: Safety In Construction Code 2	ASME Section III N	VF, Class 1	1971 Edition	<u>,w75</u>	Addenda	ı, Code Cı	ise		
(b) Applicable	Edition of Section 2	(I Utilized for Repa	irs or Replace	ments: <u>199</u>	2 Edition	n, 1992	<u>Addenda</u>	i		
6. Identification of	of Components Repai	red or Replaced an	d Replacement	Component	ts					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or		
		•				:		NO)		
3 Kip Snubber	PSA	9219	N/A	2SI123H0	01 19	979 ;	Replacement	· YES		
		<u> </u>					· ··			
			•				····			
										
	<u> </u>									
	<u> </u>									
7. Description of	Work: Replace 2S	1123H001, no we	lding.							
8. Test Conducte	d: Hydrostatic	Pneumatic	Nominal O	perating Pre	ssure 🔲	Exe	empt 🛭 N-4	116-1		
Other Pressure psi Test Temperature F										
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.										

FOR	M	NIS-	2 (B	ack)
	** * *	* 1 * •	$=$ \sim	~~~,

9. Remarks: WO #2693355. Replaced Snubber 2SI123H001 (SN 26261) for precautionary measures due to suspected binding. Replacement snubber (SN 9219) was removed for snubber reduction from 2CH424H002.

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of Arizona and endinspected the components described in this Owner's respectively. to	by the National Board of boiler and Pressure Vessel mployed by HSB CT of Hartford, Connecticut, have eport during the period of 4-15-04 of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
concerning the examinations and corrective measures	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" " AZ264 National Board, State, Province, and Endorsements
Date: 4-14-04	•

PV-E0092 Ver. 7 Back 73DP-92Z17 Rev K

	ASME SECTION :	XI – REPAIR / REPL	ACEMENT	
			. Page	of
 Component ID <u>2PSIEV23</u> Item Description: <u>SIT 1A</u> N-5 Data Package Number Original Construction Code Original Installation Code Work Description: <u>Repli</u> ISI Flaw Evaluation of the suitabilit 	Discharge Check Valve: 2RC01-1B e Edition: 1974 Edition, V Edition: 1974 Edition, W ace valve parts as required t	inter 1975 Addenda o correct identified deficier NDE Method of Flaw Det Report Number:	ncie <u>s</u>	
10. Repair/Replacement Wor 11. Replacement Items Const 12. Repair/Replacement Acti 13. ASME Section XI Code/I 14. Preservice Inspection Rec Initial	ruction or reconciled Code/ vity Construction Code/Edit Edition: 1992 Edition and quired: 1-6-64 If required, re Test Required: 16 Include component. 17. Include	Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edit 1992 Addenda YES NO include a step in the W.O. include a step in the W.O. include a step in the W.O. include a step in the W.O. to compare a step in the W.O. to record	dition 1975 Winter Add to perform Preservice In for ISI & ANII Inspecti-	nspection on. to releasing the
	replacemen			LAND TO THE A
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
18. Planner Signature 19. ISI Production Signature	De- 11-6. 11-15- De- 11-6.	Printed Name:	R.P. INDAP	Log Entry RPD
20. ANII Signature	ц-ч7 Da		R6 Houstron	
PV210-48NI (8-48)				73DP-9ZZ17 Rev 9

	بردان والارادان	يهونداسانجج ثونيكم جواقيا لازده							
1. Owner: Arizo	1. Owner: Arizona Public Service Company, et. al. Date: 05/07/05								
P. O. Box 53999, Phoenix Arizona 85072-2034				5	Sheet: <u>1</u> of <u>2</u>				
2. Plant: Palo V	Plant: Palo Verde Nuclear Generating Station					Unit: <u>2</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	<u>14-7529</u>	Work Order Nur	nber 2695179			
3. Work Performe	3. Work Performed by: Arizona Public Service Co. Type of Code Stamp None								
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 853	154-7529	Authorization No. N/A				
				I	Expiration Date	<u>N/A</u>			
4. Identification of	f System: SI				•				
5. (a) Applicable	Construction Code A	ASME Section III N	√B, Class 1 -1	1974 Edition,	Winter 1975 A	ddenda, <u>N/A</u> Cod	e Case		
· (b) Applicable	Edition of Section X	(I Utilized for Repa	irs or Replace	ments: <u>1992</u>	Edition, 1992	Addenda	-:		
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components	S				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	ion Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)		
14" Check Valve	Borg Warner	31500	987	2PSIEV23	35 1978	Repaired	Yes		
. Bonnet	Borg Warner	3	N/A	2X69	1978	Replaced	Yes		
Disc	Borg Warner	10	N/A	2X42	1978	Replaced	Yes		
Bonnet	Borg Warner	20	N/A	2X68	1978	Replacement	Yes		
Disc ,	Borg Warner	21	N/A	2X53	1978	Replacement	Yes		
							•		
	·								
7. Description of V	Work: Replaced the	bonnet/arm/disk as	ssembly to con	rect seat leak	age.				
8. Test Conducted:	: Hydrostatic 🗌	Pneumatic	Nominal Or	perating Pres	sure 🛛 Ex	empt \bigcup N-4	116-2 🔲		
Oth	ner 🗌 . Pressi	ure psi	•		Test Temperati	re °F			
		•							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.									

W.O. 2695179 replaced bonnet/arm/disc assembly, with reworked bonnet (s/n 20 arm and disk (s/n 21) assembly originally installed in 3PSIEV225 (Borg-Warner valve s/n 32616 N.B. 1134 built 1978) removed under W.O. 2607933 and reworked under W.O. 2764996.						
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		ASME SECTION	AI – REPAIR / REP		٠,				
				<u>.</u> Pa	ageof				
	1. Component ID 2JCHNUV0500								
· - \	2 Item Description: 3" Fish				•				
)	3. N-5 Data Package Number		4. W.O. Number:	<u>2711158</u>					
	5. Original Construction Cod	le Edition: 1974 Edition	, Summer 1975 Addenda		•				
	6. Original Installation Code	Edition: 1974 Edition,	Winter 1975 Addenda	•					
	7. Work Description: Rew	ork valve to correct intern	al seat leakage.						
	8. 🔲 ISI Flaw		NDE Method of Flaw I	Detection:					
			Report Number:						
	9. Evaluation of the suitabilit	y of this work as per the r	equirements of IWA - 4150): _.					
	Not a pressure boundary	failure. The valve plug/ste	m assembly is being replace	ed to improve plug to s	seat sealing.				
	•:			·					
			•		,				
	•			•					
	10. Repair/Replacement Wor	k Organization: <u>Arizona</u>	Public Service	•					
	11. Replacement Items Const	truction or reconciled Cod	e/Edition: Sec. III Cl 2, 1	974 Edition Summer 19	975 Addenda				
	·12. Repair/Replacement Acti	vity Construction Code/E	dition: Sec. III Cl 2, 1974	Edition 1975 Winter A	Addenda				
	13. ASME Section XI Code/	Edition: 1992 Edition a	nd 1992 Addenda						
	14. Preservice Inspection Rec	nuired:	☐ YES ☒ NO)					
	Initial West Date 4-21-05 If required, include a step in the W.O. to perform Preservice Inspection								
	15. ASME Section XI Pressure Test Required: YES NO								
	As a second distribution of the WO Control of ANITY								
. •	mital V-74 Date 227								
	Initial Date Date 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.								
	Initial Date 9.21-05 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.								
	Initial Mg Date 921-05 replacement items.								
Ī	Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
. 1	Plug	APN 00072816	AD7914-1	3407	MR 920004				
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l		·							
İ	<u> </u>								
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ŀ	· · · · · ·	10 00.	<u></u>	1					
•	18. Planner Osby Printed Name: David Goodlet								
ı	. Signature		Date						
•	10 TOT 60	nonon 4-	21-05 " 21	Ma	. T. F				
j	19. ISI Signature		21-05 Printed Name	Alan Morrow	Log Entry				
ŀ	J.								
	20. ANII 75 /20Th	el	-21-05 Printed Name	R.G. HOGSTRUM					
. 4	Signature		Date	•					
	PV216-06NI (8-88)				73DP-9ZZ17 Rev 9				

1. Owner: Arizo	na Public Service	Company, et. al.			Date: 4-2	21-2005	-	• • • • • • • • • • • • • • • • • • • •
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-20	<u>034</u> `		Sheet:	<u>1</u> of <u>2</u>	٠	
2. Plant: Palo Verde Nuclear Generating Station					Unit: 2			
<u>5801 S</u>	South Wintersburg	Road., Tonopah, A	rizona 853:	54-7529	Work Ord	er Numbe	r <u>2711158</u>	
3. Work Performe	ed by: <u>Arizona Publi</u>	c Service			Type of C	ode Stamp	None .	
					Authorization No. N/A			
					Expiration	Date N/	<u>'A</u>	
4. Identification o	f System: <u>CH-Che</u>	mical and Volumn Co	ontrol systen	<u>1</u> .	,			
5. (a) Applicable	Construction Code 4	ASME Section III NO	, Class 2	1 <u>974</u> Editio	n, <u>Summer</u>	<u>1975</u> Add	enda,Co	de Case
(b) Applicable	Edition of Section 3	I Utilized for Repair	s or Replace	ments: <u>199</u>	92 Edition	. 1992 Ad	ldenda	•
6. Identification of	f Components Repai	red or Replaced and I	Replacement	Componer	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.		her lication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
Plug	Fisher Controls	AD7914-1	n/a	2JCHNU	V0500	2004	Replacement	YES
	·			_				
		·						
						·		
7. Description of V	Work: Overhaul va	alve to correct seat l	eakage.					
8. Test Conducted:	: Hydrostatic	Pneumatic [Nomi	nal Operati	ing Pressure	: 🗌 .1	Exempt 🛛	
N-416-2 Other Pressure psi Test Temperature °F								
inches, (2) info	ormation in items 1	orm of lists, sketche thru 6 on this reported at the to of this	rt is include					

	FORM NIS-2 (Back)
9.)	Remarks: WO# 2711158 on valve 2JCHNUV0500 was disassembled and inspected for seat leakage. The plug is being replaced to improve the seat condition.
Pr	re-Pressured Test WO Review – ISI
	Certificate of Compliance
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date: N/A
	Signed: Alan Monow ISI Engineer Date: 5/10/05 Owner or Owner's Designee, Title

CERTIFICATE OF INSERVICE INSPECTION

inspected the components described in this Owner's re	ployed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have eport during the period of
By signing this certificate, neither the Inspector nor his concerning the examinations and corrective measures of the Inspector nor his employer shall be liable in any m loss of any kind arising from or connected with this ins	described in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a
Inspectors Signature	Commissions: NB 9685 "N" "1" AZ264 National Board, State, Province, and Endorsements
Date:	

PV216-08NI (8-88)

	ASME SECTION	XI – REPAIR / REP	•:	ro of				
1. Component ID 2MCHNE	:n2		· Pag	eof				
2 Item Description: <u>Letdov</u>			•					
3. N-5 Data Package Number		4. W.O. Number:	2716542					
5. Original Construction Cod								
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda								
7. Work Description: Repl	acement of end cover gaske							
8. 🔲 ISI Flaw		NDE Method of Flaw D	etection:					
9. Evaluation of the suitability	ty of this work as mor the res	Report Number: .						
	undary failure. The cover st	_		adiological conserns				
or if mechanical galling i	•	uds and nuts will be replace	ced if necessary due to it	adiological conscitis				
Of it mechanical gaining i	s toutiu.							
10. Repair/Replacement Wor	rk Organization: Arizona I	Public Service						
11. Replacement Items Cons			974 Edition 1975 Winter	r Addenda				
12. Repair/Replacement Acti		•						
13. ASME Section XI Code/								
14. Preservice Inspection Rec	quired:	☐ YES 🛛 NO						
Initial Only Date 9	· 20· DY If required	include a step in the W.O	to perform Preservice 1	Inspection				
15. ASME Section XI Pressu				inspection .				
0		include a step in the W.O		ian.				
Initial MyG Date 7		_	_					
Initial Nuly Date 9	-20-04/ 16. Include component.	e a step in the W.O. to con	aplete NIS-2 Form prior	to releasing the				
· •	•		11 1 11 11 11	1 6				
Initial My Date 9	-20-04 replacemen	e a step in the W.O. to reco	ord below all applicable	numbers for repaired or				
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
cover studs	APN 43115017	N/A	JBW, JNJ, K85	902003				
cover nuts	APN 43126001	N/A	151173 340	903897				
			8650692					
			 					
· 				 				
.2 0	17 004	<u> </u>						
18. Planner			David Goodlet					
Signature	/ Da	ate .	~ ~ .	_ 1				
19. ISI	9/2	9/04 Printed Name:	K. J. IN ZH	Log Entry RPL				
Signature	. J Da	ate		- -				
2. ANII 25 fartion	9-29	-o4 Printed Name:	RG HOGSTROM					
Signature		ate .						

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PV216-06NI (8-88)

1. Owner: Arizo	1. Owner: Arizona Public Service Company, et. al. Date: 9/16/2004							
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: <u>1</u> of <u>2</u>								
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	5 <u>4-7529</u> W	ork Order Nur	nber <u>2716542</u>		
3. Work Performe	ed by: Arizona Public	c Service		Ty	pe of Code St	amp <u>None</u>		
	•			Aı	Authorization No. N/A			
				Ex	piration Date	<u>N/A</u>		
4. Identification o	f System: CH: Che	mical and Volumn	Control System	<u>n</u>				
5. (a) Applicable	Construction Code 2	ASME Section III N	NC, Class 2	1974 Edition, <u>V</u>	Winter 1975 A	ddenda, Co	ode Case	
(b) Applicable	Edition of Section 3	A Utilized for Repa	airs or Replace	ments: <u>1992 1</u>	Edition, 1992	Addenda	•	
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components		_		
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or	
cover studs	n/a	n/a	n/a	2MCHNE02	2004	Replacement	NO) NO	
cover nuts	n/a	n/a	n/a	2MCHNE02	2004	Replacement	NO	
							····	
	<u> </u>							
				<u> </u>		·		
7. Description of V	Vork: Replacemen	nt of cover gasket	to correct lea	kage. Studs &	l & nuts will be	replaced as nec	essay.	
8. Test Conducted:	7. Description of Work: Replacement of cover gasket to correct leakage. Studs & nuts will be replaced as necessay. 8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt							
N-416-2 Other Pressure psi Test Temperature °F								
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

	FORM NIS-2 (Back)
9.	Remarks: WO# 2716542 for 2MCHNE02 will remove the end cover from the heat exchanger for gasket replacement to correct small leakage. Studs & nuts will be replaced if necessary due to radiological concers or any mechanical galling.
Pre	e-Pressured Test WO Review – ISIANII
	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.
١	Type Code Symbol StampN/A
1	Certificate of Authorization No. N/A Expiration Date: N/A
	Signed: Clan Monow ISI Engineer Date: 4-15-05 Owner or Owner's Designee, Title

CERTIFICATE OF INS	ERVICE INSPECTION					
inspected the components described in this Owner's reto, and state that to the best	aployed by HSB CT of Hartford, Connecticut, have					
	·					
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.						
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements					
Date: 4-15-05						

216-08NI (8-88)

73DP-9ZZ17 Rev 9

Page 1. Component ID 2MRCEX01 2.. Item Description: Reactor Head Vent Orifice 3. N-5 Data Package Number: 2RC01-1A 4. W.O. Number: 2717779 5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Relocate the Reactor Head Vent Orifice Dmwo 2717767 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The Reactor head vent line orifice is being removed from flush with the vessel head and a new orifice is being fabricated and installed downstream of valve 2PRCEV212 per the DMWO. The head vent piping is being upgraded from ASME Class 2 to ASME Class 1. This will allow for NDE of the head vent nozzle to comply with NRC Order EA03-009. There was no failure of the Code boundry. 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1971 Edition 1973 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: ☐ YES Ø NO Kirs Date 10/29/2004 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: □ YES ON 🖾 If required, include a step in the W.O. for ISI & ANII Inspection. \$ Date 10/29/2002 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the Date 10/29/2004 component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or _ Date 1. /29 (2104 Initial replacement items. Item ID Part No. Serial No. Heat No. MR/PO/WO No. Round Stock, SA479 TP316 APN 43640489 MR 893055 Printed Name: Karl V. Savage 18. Planner 11 03 04 Date Printed Name: R.P. INDAP Log Entry RPI Printed Name: _ R. G. Houstron 20. ANII 11-12-04

ASME SECTION XI - REPAIR / REPLACEMENT

1. Owner: Arizona Public Service Company, et. al. Date: 11/03/2004								
<u>P. O. 1</u>	:	Sheet:		of _\	•			
2. Plant: Palo V	Verde Nuclear Gen	erating Station		1	Unit: <u>2</u>			
<u>5801 S</u>	54 <u>-7529</u>	Work O	rder Num	nber <u>2717779</u>				
3. Work Performe	ed by: <u>Arizona Publi</u>	c Service			Type of	Code Sta	ımp <u>None</u>	
A					Authoriz	zation No	o. <u>N/A</u>	
				. 1	Expiration	on Date	<u>N/A</u>	•
4. Identification o	4. Identification of System: RC - Reactor Coolant							
5. (a) Applicable	Construction Code 2	ASME Section III 1	VB, Class 1	1974 Edition	Winter	<u>r 1975</u> Ad	ldenda, Co	ode Case
(b) Applicable	Edition of Section 2	KI Utilized for Repa	airs or Replace	ments: <u>1992</u>	Editio Editio	on, 1992	Addenda	
6. Identification o	f Components Repai	ired or Replaced an	d Replacement	Components	5			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Orifice	N/A	N/A	N/A	MR 89305	5 N	N/A	Replacement	NO
			•					
				,				•
				-			,	•
7. Description of \	Work: Relocate the	e head vent orific	e and upgrade	the vent pi	ping fro	om Clas	s 2 to Class 1	
8. Test Conducted	: Hydrostatic	Pneumatic	: Nomi	inal Operatin	g Pressu	ure 🔲	Exempt 🗵	
. N-4	116-2 Other	Pressure	psi		Test Te	emperatu	re °F	
					٠		.	
inches, (2) info	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.							

	FORM NIS-2 (Back)
.9.)	Remarks: Work Order 2717779. Relocated the Reactor Vessel Head vent orifice from flush with the inside surface of the head to the flange downstream of 2PRCEV212. This modification also upgraded the piping between the head and the new orifice from ASME Class 2 to Class 1.
P	re-Pressured Test WO Review – ISI Monow ANII ~/A
	Certificate of Compliance
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date: N/A
	Signed: Celan Monow ISI Engineer Date: 5/11/05 Owner or Owner's Designee, Title
ı	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of
	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements

PV216-08NI (8-88)

Inspectors Signature

5-11-05

1. Component ID 2PSIEV542 2. Item Description: HPSI/LPSI Header Loop Injection Check Valve 3. N-5 Data Package Number: 2RC01-1B 4. W.O. Number: 2721744 5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve parts as required to correct identified deficiencies 8. Steport Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial J.D Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial J.D Date 11-19-04 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
2 Item Description: HPSI / LPSI Header Loop Injection Check Valve 3. N-5 Data Package Number: 2RC01-1B
3. N-5 Data Package Number: 2RC01-1B 4. W.O. Number: 2721744 5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve parts as required to correct identified deficiencies 8. ☐ ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: ☐ YES ☐ NO Initial ☐ Date ☐ Date ☐ Great Feet Required: ☐ YES ☐ NO Initial ☐ Date ☐ Date ☐ Date ☐ Other Feet Feet Required include a step in the W.O. to perform Preservice Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve parts as required to correct identified deficiencies 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial To Date 11-19-09 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve parts as required to correct identified deficiencies 8. ☐ ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
7. Work Description: Replace valve parts as required to correct identified deficiencies 8. ☐ ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: □ YES NO Initial □ Date □ □ Tessure Test Required: □ YES NO
8. SIFIaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jac Date Image: No Section XI Pressure Test Required: YES NO NO NO NO NO NO NO NO NO NO NO NO NO
Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl. 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl. 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Total Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Two Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Jan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Japan Date 11-19-04 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO
13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: ☐ YES ☐ NO Initial ☐ ☐ Date ☐ ☐ Frequired, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: ☐ YES ☐ NO
Initial Date
Initial Date
15. ASME Section XI Pressure Test Required: YES NO
• — —
Initial 1.0 Date 11-19-04 If required, include a step in the W.O. for ISI & ANII Inspection. Initial 1.0 Date 11-19-04 If required, include a step in the W.O. to complete NIS-2 Form prior to releasing the component.
Initial Date
Initial J.P Date 1/-19-64 17. Include a step in the W.O. to record below all applicable numbers for repaired or
Item ID Part No. Serial No. Heat No. MR/PO/WO No.
Bonnet 76857 19 40 2764987
DISC 76865 5 - WO 2764987
18. Planner 11-19-04 Printed Name: James I. Davis
18. Planner July 11-19-04 Printed Name: James I. Davis Date
19. ISI Alan Monow 12-1-04 Printed Name: Alan Morrow Log Entry am
19. ISI Alan Monow 12-1-04 Printed Name: Alan Morrow Log Entry am

PV216-06NI (8-88)

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Serv	ice Company, et. al.	Date: 05/07/05	
P.O. Box 53999, Ph	oenix Arizona 85072-2034	Sheet: <u>1</u> of <u>2</u>	
2. Plant: Palo Verde Nuclear	Generating Station	Unit: <u>2</u>	
5801 South Winterst	ourg Road., Tonopah, Arizona 85354-7529	Work Order Number 2721744	
3. Work Performed by: Arizona F	Public Service Co.	Type of Code Stamp None	
5801 S. W	intersburg Rd., Tonopah, Arizona, 85354-7529	Authorization No. N/A	

4. Identification of System: SI

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

Expiration Date N/A

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

6. Identification of Components Repaired or Replaced and Replacement Components

Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
12" Check Valve	Borg Warner	51028	1605	2PSIEV542	1979	Repaired	Yes
./Bonnet	Borg Warner	14	N/A	3C62	1979	Replaced	´ Yes
Disc	Borg Warner	10	N/A	3L96	1979	Replaced	Yes
Bonnet	Borg Warner	. 19	N/A	3L97	1979	Replacement	Yes
Disc	Borg Warner	5	N/A	3L96	1979	Replacement	Yes
•						·	
			-				

	<u> </u>							
			·					
7. Description of	Work: Replaced th	e bonnet/arm/disk a	ssembly to cor	rect seat leakage.				
8. Test Conducted	l: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pressure	⊠ Ex	empt 🔲	N-416-2	
Oti	her 🔲 . Pres	sure psi	•	Test	Temperatu	ıre '	PF .	
MOTE: Sunni	amantal chaota in	form of lists alsot	ahaa ay daaya	inaa may ha waad	Insorridad	(1) ciza is 9	2 12 💟 11	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)

W.O. 2721744 replaced bonnet/arm/disc at originally installed in 3PSIEV543 (Borg-V and reworked under W.O. 2764987.			
Pre-Pressure Test Work Order Review: IS	: alan Mo	now	•
ANII	: 24 /-	·	
- C	Certificate of C	ompliance ·	······································
We certify that the statements made in ASME Code, Section XI.	the report are corre	ct and this repair conforms to	the rules of the
Type Code Symbol Stamp	N/A		
Certificate of Authorization No.	N/A	Expiration Date:	N/A
Signed: Clan Morror Owner's	w ISI Res	Iresoulative Date	5/16/05
CERTIFICA	TE OF INSEF	RVICE INSPECTION	
I, the undersigned, holding a valid con Inspectors and the State or Province of inspected the components described in to 5-16-05, and state examinations and taken corrective m requirements of the ASME Code, Section	Arizona and emplo this Owner's report that to the best of n leasures described	yed by <u>HSB CT</u> of <u>Hartfor</u> at during the period of <u>4-</u> ny knowledge and belief, the	rd, Connecticut, have 2-05 Owner has performed
By signing this certificate, neither the I concerning the examinations and correct the Inspector nor his employer shall be loss of any kind arising from or connect	ctive measures desc liable in any mann	cribed in this Owner's report. her for any personal injury or	Furthermore, neither
Waller The Inspectors Signature	C	fornmissions: 18 8098 National Board, State	PNI Province, and Endorsements
			• • • • • • • • • • • • • • • • • • • •

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73DP-9ZZ17 Rev 8

·	ASME SECTION	XI – REPAIR / REPI	ACEMENT		•
	· · · · · · · · · · · · · · · · · · ·		. Pa	ge	of
	CKET WATER COOLER 2DG01-2 e Edition: 1974 Edition, S Edition: 1974 Edition, W AIR BASE METAL WITH	Vinter 1975 Addenda WELD BUILD UP NDE Method of Flaw De Report Number: quirements of IWA - 4150:	tection:	(NESS, F	<u>REPAIRED</u>
10. Repair/Replacement Wor 11. Replacement Items Const 12. Repair/Replacement Activ 13. ASME Section XI Code/R 14. Preservice Inspection Recommendation Initial Date 4 15. ASME Section XI Pressur Initial Date 4 Initial Date 4 Initial Date 4	ruction or reconciled Code, vity Construction Code/Edication: 1992 Edition and puired: If required, re Test Required:	/Edition: Sec. III Cl 3, 19 tion: Sec. III Cl 3, 1974 I d 1992 Addenda YES NO include a step in the W.O. YES NO include a step in the W.O. to com e a step in the W.O. to reco	to perform Preservice for ISI & ANII Inspec	Inspection.	on using the
Item ID	Part No.	Serial No.	Heat No.	MR	/PO/WO No.
2MDGAE05 REVERSING SPOOL	4-321-19-815-007	9-20016-01-4	N/A	272	24392
18. Planner Marianture 19. ISI Clan M Signature	4-8-0 2000 4/8	ate	Martin Sullivan Alan Marcow	Log	Entry
20. ANII ZS frotien. Signifure	4-8- D	Printed Name:	R.G. HOGSTRE	om ·	

L								
1. Owner: Arizo	ona Public Service (Company, et. al.			Date:	04/08/200	<u>)5</u>	
<u>P. O. J</u>	Box 53999, Phoeni	ix Arizona 85072.	<u>-2034</u>	•	Sheet:	: <u>1</u> of	<u>2</u>	
2. Plant: Palo V	Verde Nuclear Gen	erating Station			Unit:	2		
5801 5	South Wintersburg	Road., Tonopah,	Arizona 853	<u>54-7529</u>	Work	Order Nun	nber <u>2724392</u>	
3. Work Performs	ed by: <u>Arizona Public</u>	c Service			Туре	of Code Sta	amp <u>None</u>	
 A					Autho	orization No	o. <u>N/A</u>	
					Expira	ation Date	<u>N/A</u>	
4. Identification o	of System: 2MDGA	<u>E05</u>						
5. (a) Applicable	Construction Code A	ASME Section III 1	VD, Class 3	<u>1974</u> Editio	n, <u>Sum</u>	<u>mer 1976</u> /	Addenda, <u>N/A</u> Co	de Case
(b) Applicable	Edition of Section X	KI Utilized for Repa	airs or Replace	ments: <u>199</u>	92 Edit	tion, 1992	Addenda	
6. Identification o	of Components Repair	ired or Replaced an	d Replacement	Componer	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
DG "A"jacket water cooler	American Standard	9-20016-01-4	33117	2MDGAE	2MDGAE05		Repaired	YES
7. Description of V	Work: Weld build i	up of corroded re	versing spool					
8. Test Conducted:	: Hydrostatic	Pneumatic	☐ Nomi	inal Operati	ing Pres	ssure 🔲	Exempt	
N-4	116-2 🔀 Other	Pressure p	osi		Test '	Temperatu	re°F	
inches, (2) info	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form							

	FORM NIS-2 (Back)
	Remarks: WELD REPAIR OF BASE METAL ON THE REVERSING SPOOL W.O. # 2724392
P	re-Pressured Test WO Review – ISI
	ANII
	Certificate of Compliance
	We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp N/A
	Certificate of Authorization No. N/A Expiration Date: N/A
	Signed: <u>Alan Monow FSI Engineer</u> Date: 4/15/05 Owner or Owner's Designee, Title
	Owner or Owner's Designee, Title
. :	
	CEDTRETCATE OF DICEDVICE DICERCITION
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of
	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions: NB 9685 "N" "I" AZ264 Inspectors Signature NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
	Date: 4-15-05

	ASME SECTION Y	XI – REPAIR / REPI	LACEMENT				
		· · · · · · · · · · · · · · · · · · ·	Pa	geof			
 Component ID 2MDGAE0 Item Description: DG LU N-5 Data Package Number: Original Construction Code I Work Description: REPA ISI Flaw Evaluation of the suitability 	JBE OIL COOLER : 2DG01-2 le Edition: 1974 Edition, S Edition: 1974 Edition, Wi AIR BASE METAL WITH	Vinter 1975 Addenda WELD BUILD UP NDE Method of Flaw De Report Number:	etection:				
•	HE BASE MATERIAL DU			ONESS REPAIRED			
	CTED WITH COATINGS.	IC TO BROSSE	11/10/11 11/192	INDOCATED AND A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST			
10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1976 Summer Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Date 4-9-05 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial Date 4-9-05 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. Initial Date 4-9-05 If Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.							
Item ID	replacement	Serial No.	Heat No.	MR/PO/WO No.			
2MDGAE04 BAFFLE PLATE (INLET/OUTLET SPOOL)	4-305-19-815-008	9-20016-02-3	N/A	2724398			
			-				
		 		-			
		1	 				
		 	+				
	,	 	-	+			
18. Planner May Signature 19. ISI Dell'	Ind 4-9-0 3 4-9-0	Date Trinica Hame.	Martin Sullivan Robert L Bro	vivilog Entry ALS			
Signature 20. ANII Signature	4-9-		R.G. HOGSTRON	· ·			

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	na Public Service (Company, et. al.	,		Date:	04/09/200	<u>)5</u>	
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2								
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2724398								
3. Work Performe	d by: <u>Arizona Publi</u>	Service			Туре	of Code Sta	ımp <u>None</u>	
Authorization No. N/A								
Expiration Date <u>N/A</u>								
4. Identification o	f System: 2DG							
5. (a) Applicable	Construction Code A	ASME Section III N	ID, Class 3	1 <u>974</u> Edition	n, <u>Sum</u>	mer 1976 A	Addenda, <u>N/A</u> Co	de Case
(b) Applicable	Edition of Section >	(I Utilized for Repa	airs or Replace	ments: <u>199</u>	2 Edi	tion, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Componen	its			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identifica		Year Built	Repaired or Replacement	ASME Code Stamped
			·		-			(Yes or NO)
DG "A" lube oil cooler	American Standard	9-20016-02-3	33118	2MDGAE	04	1979	Repaired	YES
				·				
	·							
				:: <u>-</u>				
7. Description of \	Work: Weld repair	of the base meta	on the inlet	/outlet baf	île. w	.o. 272439	<u>8</u>	
8. Test Conducted	: Hydrostatic	Pneumatic	□ Nom	inal Operati	ng Pre	ssure 🔲	Exempt	
N-4	116-2 🛭 Other	Pressure1	psi		Test	Temperatu	re °F	
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include					

	FORM NIS-2 (Back)	
· 9.	. Remarks: Weld repair of the base metal on the inlet/outlet baffle, w.o. 2724398	
Pı	re-Pressured Test WO Review – ISI	
ı	ANII	
•	Certificate of Compliance	٦
	We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.	
	Type Code Symbol Stamp N/A	
	Certificate of Authorization No. N/A Expiration Date: N/A	
	Signed: <u>Alem Monow T5T Engineer</u> Date: <u>4/15/05</u> 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 <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have inspected the components described in this Owner's report during the period of <u>Argos</u> to <u>Argos</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the	
	requirements of the ASME Code, Section XI.	
	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements	
	Date:	

PV216-08NI (8-88) 73DP-9ZZ17 Rev 9

ASME SECTION XI – REPAIR / REPLACEMENT								
* administrative months are constitutive and	Page 1 of							
Component ID 2JSGEPS Item Description: Main S	-	· 6" 3707RAY-RT-25: 12	MINOR, AND A TOLIC CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF					
N-5 Data Package Number		4. W.O. Number:						
5. Original Construction Cod								
	6. Original Installation Code Edition: 1974 Edition. Winter 1975 Addenda							
7. Work Description: Replacement of main steam safety valve with a reconditioned and tested spare.								
8. ISI Flaw NDE Method of Flaw Detection:								
Report Number:								
9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based								
	E III pressure boundary. Sp	are valve is a like-for-like	replacement and is being	ng replaced based				
upon trevitesting.								
10 D 1 D 11 D 11 D 11 D 11 D 11 D 11 D		n a .		ļ				
 Repair/Replacement Wor Replacement Items Const 			074 Edition Cummer 10	NTE Address				
12. Repair/Replacement Acti								
13. ASME Section XI Code/			Edition 1273 Trino. 11	<u>udenda</u>				
14. Preservice Inspection Rec		☐ YES 🖾 NC)					
-								
Initial Das Date 3		, include a step in the W.C		Inspection				
15. ASME Section XI Pressu	•	YES □ NO						
1 1 Page Date 3.	18-2765 If required	, include a step in the W.C	D. for ISI & ANII Inspec	ction.				
Initial Park Date 3.	28-255 16. Includ component	e a step in the W.O. to cont.	mplete NIS-2 Form prio	r to releasing the				
Initial Prof. Date 3. Initial Prof. Date 3.	·28-285 17. Includ	e a step in the W.O. to rec	ord below all applicable	numbers for repaired or				
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
2JSGEPSV0579	APN 45003640	BS-08569	N/A	MR				
	·							
								
			+					
			_					
		 						
·				<u> </u>				
	<u> </u>							
18. Planner			: David Goodlet					
Signature	_	Date	~ -	•				
19. ISI Signature		Printed Name	: R.P. INDA	Log Entry REP				

3-మ-05 Date

Signature

Printed Name: RG HOGSTRON

Page_ 1. Component ID 2JSGEPSV0558 2.. Item Description: Main Steam Safety valve; Dresser 6" 3707RAX-RT-25; 1315 psig 3. N-5 Data Package Number: 2SG02-1A 4. W.O. Number: 2724427 5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replacement of main steam safety valve with a reconditioned and tested spare 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon trevitesting. 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 1992 Edition and 1992 Addenda 13. ASME Section XI Code/Edition: □ YES ⊠ NO 14. Preservice Inspection Required: If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: ⊠ YES П ио Initial May Date 3-28-2005 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the Initial _ 125 Date 3-28-2005 component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or Initial 1996 Date 3-28-2005 replacement items. MR/PO/WO No. Heat No. Item ID Part No. Serial No. APN 45003638 N/A 2JSGEPSV0558 BS-08611 18. Planner Printed Name: David Goodlet Printed Name: R.P. INDAP Log Entry RPL Printed Name: R.G. HOGSTROM 3-30-05 20. ANII

ASME SECTION XI – REPAIR / REPLACEMENT

PV216-04NL(8-48)

73DP-9ZZ17 Rev 9

Page_3 1. Component ID 2JSGEPSV0691 2.. Item Description: Main Steam Safety valve; Dresser 6" 3707RAX-RT-25; 1315 psig 3. N-5 Data Package Number: 2SG01-1A 4. W.O. Number: 2724427 5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replacement of main steam safety valve with a reconditioned and tested spare. NDE Method of Flaw Detection: 8. ISI Flaw Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Not a failure in the ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced based upon trevitesting. 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition Summer 1975 Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda ⊠ NO 14. Preservice Inspection Required: ☐ YES Initial West Date 3-25-2005 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: П по ⊠ YES If required, include a step in the W.O. for ISI & ANII Inspection. Initial 12019 Date 3-28-2005 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the 13-15 Date 3-28-2005 component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or 26 Date 3-28-2005 replacement items. Item ID Part No. MR/PO/WO No. Serial No. Heat No. 2JSGEPSV0691 APN 45003638 BS-08586 N/A 18. Planner Printed Name: David Goodlet Signature Printed Name: RG 4065TROM 4-30-05 20. ANII Date

ASME SECTION XI – REPAIR / REPLACEMENT

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

0.7									
1. Owner: Arizona Public Service Company, et. al. Date: 03/28/2005									
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2									
2. Plant: Palo Verde Nuclear Generating Station Unit: 2									
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2724427									
3. Work Performed by: Arizona Public Service Type of Code Stamp None									
Authorization No. <u>N/A</u>									
	Expiration Date N/A								
4. Identification o	f System: <u>SG - Mai</u>	n Steam							
5. (a) Applicable	Construction Code 4	ASME Section III N	IC, Class 2	<u>1974</u> Editio	n, <u>Sum</u>	mer 1975 A	Addenda,C	ode Case	
(b) Applicable	Edition of Section >	(I Utilized for Repa	airs or Replace	ments: <u>199</u>	02 Edi	tion, 1992	Addenda		
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Componen	nts		•		
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identifica		Year Built	Repaired or Replacement	ASME Code Stamped	
						·.		(Yes or NO)	
Safety Valve	Dresser	BS-08569	n/a	2JSGEPS	V579	1978	Replacement	YES	
Safety Valve	Dresser	BS-08611	n/a	2JSGEPS	V558	1980	Replacement	YES	
Safety Valve	Dresser	BS-08586	n/a	2JSGEPS	V691	1978	Replacement	YES	
1									
				•				,	
·									
7. Description of	Work: Replace thr	ee main steam sa	fety valves wi	ith recondi	tioned	& tested	spares.		
8. Test Conducted	: Hydrostatic	Pneumatic	Nom	inal Operati	ing Pre	ssure 🛛 .	Exempt		
. N-	416-2 Other	Pressure	psi .		Test	Temperatu	re °F		
							٠		
	emental sheets in formation in items 1								

and the number of sheets is recorded at the to of this form.

TOO	TO N M	DITE	À /	T	1 \
FU	$\mathbf{K}\mathbf{M}$	NIS.	-2 (Ba	CK)

Remarks: WO# 2724427 will be used to replace three (3) Main Steam Safety valves 2JSGEPSV0691, 2JSGEPSV0579	
and 2JSGEPSV0558 during 2R12.	٠.
Pre-Pressured Test WO Review - ISI Alan Monow	
Tre-ressured rest workeview - isr	
Pre-Pressured Test WO Review – ISI <u>Alam Monow</u> ANII 73 fram	
	—
Certificate of Compliance	
	-1
We certify that the statements made in the report are correct and this replacement conforms to the rules of the	
ASME Code, Section XI.	- [
	- 1
Type Code Symbol StampN/A	1
Cortificate of Authorization No. N/A Expiration Data. N/A	- 1
Certificate of Authorization No. N/A Expiration Date: N/A	- 1
Signed: Alan Monow ISI Engineer Date: 5/10/05	
Signed: Alan Monow IST Engineer Date: 5/10/05 Owner or Owner's Designee, Title	- 1
	- 1
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have	
Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have	
inspected the components described in this Owner's report during the period of $\frac{\cancel{4} \cdot \cancel{2} - \cancel{5}}{\cancel{5}}$	
inspected the components described in this Owner's report during the period of $\frac{3.2 - 0.5}{0.00}$ to $\frac{5-16-0.5}{0.00}$, and state that to the best of my knowledge and belief, the Owner has performed	
inspected the components described in this Owner's report during the period of $\frac{3/2-05}{2-05}$ to $\frac{5-16-05}{2-05}$, 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	
inspected the components described in this Owner's report during the period of $\frac{3.2 - 0.5}{0.00}$ to $\frac{5-16-0.5}{0.00}$, and state that to the best of my knowledge and belief, the Owner has performed	
inspected the components described in this Owner's report during the period of $\frac{3/2-05}{2-05}$ to $\frac{5-16-05}{2-05}$, 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	
inspected the components described in this Owner's report during the period of $\frac{\cancel{5} \cdot \cancel{2} - 05}{\cancel{5} \cdot \cancel{6} - 05}$ to $\cancel{5} - \cancel{6} \cdot \cancel{6} \cdot \cancel{6}$, 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.	
inspected the components described in this Owner's report during the period of $\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel$	
inspected the components described in this Owner's report during the period of $\frac{\cancel{5} \cdot \cancel{2} - \cancel{5} \cdot \cancel{5}}{\cancel{5} \cdot \cancel{6} \cdot \cancel{5}}$ to $\frac{\cancel{5} \cdot \cancel{6} \cdot \cancel{5}}{\cancel{5} \cdot \cancel{6} \cdot \cancel{5}}$, 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	
inspected the components described in this Owner's report during the period of $\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel{\cancel$	
inspected the components described in this Owner's report during the period of 5-16-05, 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.	
inspected the components described in this Owner's report during the period of 5-16-05 , 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.	
inspected the components described in this Owner's report during the period of 5-16-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions: NB 9685 "N" "T" AZZ64	
inspected the components described in this Owner's report during the period of 5-16-05 , 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.	
inspected the components described in this Owner's report during the period of 5-16-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions: NB 9685 "N" "T" AZZ64	

PV216-08NI (8-88) 73DP-9ZZ17 Rev 9

•	ASME SECTION	XI – REPAIR / REPLA	CEMENT						
•			Pa	ge of					
1. Component ID 2MRCEPO	DIA	,		•					
2 Item Description: Reactor	r Coolant Pump								
3. N-5 Data Package Number	: <u>2RC02-4</u>	4. W.O. Number: <u>27</u>	<u>24496</u>	,					
5. Original Construction Cod	Original Construction Code Edition: 1974 Edition								
6. Original Installation Code									
	nanical Seal replacement a	as part of normal maintenance.							
8. ISI Flaw	•	NDE Method of Flaw Dete	ection:						
		Report Number:	•						
9. Evaluation of the suitabilit	y of this work as per the r	requirements of IWA - 4150:							
No failure of ASME III p	ressure boundry. Mechan	ical seal replacement as part of	f normal maintenance	7					
10. Repair/Replacement Wor	k Organization: Arizon	a Public Service							
11. Replacement Items Const	ruction or reconciled Cod	le/Edition: Sec. III Cl 1, 1974	4 Edition						
12. Repair/Replacement Activ	vity Construction Code/E	dition: Sec. III Cl 1, 1974 Ed	lition 1975 Winter A	ddenda					
13. ASME Section XI Code/I	Edition: 1992 Edition a	and 1992 Addenda							
14. Preservice Inspection Req	quired:	☐ YES ☒ NO							
•									
Initial <u>BV</u> Date <u>5</u>	•	ed, include a step in the W.O. to	o perform Preservice	Inspection					
15. ASME Section XI Pressu	re Test Required:								
Initial AV Date 5	1/2/25 If require	d, include a step in the W.O. f	or ISI & ANII Inspec	tion.					
		ide a step in the W.O. to comp	lete NIS-2 Form prio	r to releasing the					
Initial My Date <u>S</u>	//2/05 compone		icto 1110-21 orni prio	to reteasing the					
	1 17 Inch	ide a step in the W.O. to record	l helow all applicable	numbers for renaired or					
Initial <u>BV</u> Date <u>5</u>		ent items.	tociow an applicable	, numbers for repaired or					
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.					
3 rd Stage Seal Retainer	1663509	Q95-1869-5N-7	NA	NA					
5 Stage Ocal Relation	1003307	14,75 755, 57, 7	IVA	I NA					
::									
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	H								
			·····						
18. Planner Barbar	- Vil. D 5	1/2/c S Printed Names B	arbara Vidal						
Signature		$\frac{1/2/c}{D_{\text{ate}}}$ Printed Name: B	arvara vidar						
10. 11.	_	lands on							
19. ISI Signature	terrow 5	//2/05 Printed Name: _	Alan Morro	Log Entry					
	•	D4.0	•						
20. ANII 24 hotion	٠	Printed Name: _	R.C. HOGSTRO						
Simboliza		Data							

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

1. Owner: Arizo	ona Public Service	Company, et. al.			Date: <u>5/</u>	12/2005		
P. O. Box 53999. Phoenix Arizona 85072-2034					Sheet: $\underline{1}$ of $\underline{2}$			
2. Plant: Palo Verde Nuclear Generating Station				Unit: <u>2</u>				
<u>5801</u>	South Wintersburg	Road., Tonopah, A	rizona 8535	54-7529	Work Ord	ler Numbe	r <u>2724496</u>	
3. Work Perform	ed by: Arizona Publi	c Service	•		Type of C	ode Stamp	None None	
					Authoriza	tion No.	<u>N/A</u>	
					Expiration	Date N	<u>'A</u>	
4. Identification of	of System: RC, ASM	/IE Section III Class 1	<u>L</u>					
5. (a) Applicable	Construction Code 1	ASME Section III NB	, Class 1	1974 Editio	on, A	Addenda, <u>I</u>	V/A Code Case	
(b) Applicable	Edition of Section 2	KI Utilized for Repair	s or Replace	ments: <u>19</u>	92 Edition	. 1992 Ad	<u>Idenda</u>	
6. Identification of	of Components Repai	red or Replaced and l	Replacement	Compone	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	E .	ther fication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
3 rd Stage Seal Retainer	Sulzer	Q95-1869 SN-7	NA	2MRCEI	P01A	1985	Replacement	YES
	·							
		·						
	· .						·	
			·					
7. Description of	Work: Mechanical	seal replacement as	s part of no	rmal main	itenance		, , , , , , , , , , , , , , , , , , , 	L
8. Test Conducted	l: Hydrostatic	Pneumatic [] Nomi	inal Operat	ing Pressur	e 🛛 .	Exempt [
N-	416-2 Other	Pressure _ psi	• •		Test Ten	nperature	_ °F	
NOTE: Suppl	emental sheets in f	orm of lists, sketche	es, or drawi	ings may 1	be used pro	ovided (1)) size is 8 ½ X	11

inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM NIS-2 (Back)	
9. Remarks: WO 2724496 - replacement of mechanical seals as part of normal maintenance.	
,	·
Pre-Pressured Test WO Review – ISI	
Pre-Pressured Test WO Review – ISI Alone Monow ANII Zi	
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.	he
Type Code Symbol Stamp	
Certificate of Authorization No. N/A Expiration Date: N/A Signed: Monow TST Legistrics Date: 5/16/05 Owner or Owner's Designee, Title	
Signed: Alan Monow ISI Legistries Date: 5/16/05	.
Owner or Owner's Designee, Title	Ì
·	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Ves Inspectors and the State or Province of Attacha and employed by HSB CT of Hartford, Connecticut, has	sel
inspected the components described in this Owner's report during the period of 4-2-05	[
to, and state that to the best of my knowledge and belief, the Owner has perform examinations and taken corrective measures described in this Owner's Report in accordance with	
requirements of the ASME Code, Section XI.	
·	
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implications 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 o	
loss of any kind arising from or connected with this inspection.	-
Commissions: National Board State Province and Endorsem	nts
Inspectors Signature	

			. Pa	ge of				
1. Component ID 2JRCEPS	V0200		•					
2 Item Description: Pressurizer Safety Relief Valve								
3. N-5 Data Package Number: <u>2RC03-2</u> 4. W.O. Number: <u>2724921</u>								
5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda								
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda								
7. Work Description: Repl	ace the Pressurizer Safety V							
8. ISI Flaw		NDE Method of Flaw Do	etection:					
0.75 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		Report Number:						
9. Evaluation of the suitabilit				_				
	pressure boundary. Spare val		ement and is being rep	laced to support				
Vendor testing. The repla	scement valve is SN BS-085	<u> </u>						
10: Repair/Replacement Wor	-			·				
11. Replacement Items Const				-				
12. Repair/Replacement Acti		•	Edition 1975 Winter A	<u>ddenda</u>				
13. ASME Section XI Code/I								
14. Preservice Inspection Rec	- 1	☐ YES 🔯 NO						
Initial By Date 11	1/6/04 If required,	include a step in the W.O	to perform Preservice	Inspection				
15. ASME Section XI Pressu	· /	⊠ YES □ NO		•				
	1 1	include a step in the W.O.		rtion.				
Initial 180 Date 11	//-							
Initial 150 Date 11	16. Include component.	e a step in the W.O. to com	plete NIS-2 Form prio	r to releasing the				
,								
Initial AN Date 1/	1/16/cy 17. Include replacemen	e a step in the W.O. to reco	ord below all applicable	numbers for repaired or				
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.				
		· · · · · · · · · · · · · · · · · · ·						
2JRCEPSV0200	N/A	BS-08590	N/A	969316				
.				•				
								
	L <u></u>	<u> </u>	1					
18. Planner B Vid	11/16/c	Printed Name:	Barbara Vidal					
Signature	/ D	gre	Darous Fidus	`				
10.	en	14104	Ala ma					
19. ISI <u>Clan</u> 1	D. D.	Printed Name:	Mun marry	Log Entry an				
,			0 1					
20. ANII 25 Ayota	11-22	Printed Name:	R.G. HOGETRO	۸ .				
Signature	Da	ate						

ASME SECTION XI - REPAIR / REPLACEMENT

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

AND DESCRIPTION OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF	الأدي والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والم والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع و	-				وي باعداد بيايات الانتسارات الربي		
1. Owner: Arizo	na Public Service	Company, et. al.	·	Da	te: <u>11/16/04</u>			
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2								
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
<u>5801 S</u>	South Wintersburg	Road., Tonopah.	Arizona 853:	54-7529 W	ork Order Nun	iber <u>2724921</u>		
3. Work Performed by: Arizona Public Service Type of Code Stamp None								
. Authorization No. N/A								
Expiration Date <u>N/A</u>								
4. Identification o	f System: RC - Rec	actor Coolant Syste	<u>m</u>					
5. (a) Applicable	Construction Code 1	ASME Section III 1	NB, Class I	1974 Edition, <u>S</u>	ummer 1975 A	addenda, <u>N/A</u> Coo	ie Case	
(b) Applicable	Edition of Section 2	I Utilized for Repa	irs or Replace	ments: <u>1992 F</u>	dition, 1992	Addenda		
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificatio	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or	
PSV	Dresser	BS-08590	N/A	2TACEPS VOZ	1979	Replacement	NO) YES	
<i>;</i> ′				an slig	23			
•		·						
3								
	Vork: No failure of support Vendor te					ike replacement	and is	
8. Test Conducted:	: Hydrostatic	Pneumatic	☐ Nomi	inal Operating I	Pressure 🗵	Exempt		
N-4	16-2 Other	Pressure	osi	T	est Temperatur	e °F		
•	·	٠						
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include					

	FORM NIS-2 (Back)
9.	Remarks: WO # 2724921. No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08590
Pr	e-Pressured Test WO Review – ISI also
Ī	Certificate of Compliance
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
	Type Code Symbol Stamp
	Certificate of Authorization NoN/A Expiration Date:N/A
	Signed: Alan Monow IST Engineer Date: 5/16/05 Owner or Owner's Designee, Title
١	
<i></i>	
	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-2-05 , 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. URL SOFE WI 5-14-05 Inspectors Signature Commissions: NB 9685 NF 17 AZZ64 National Board, State, Province, and Endorsements Date: 5-16-05

	ASME SECTION XI - REPAIR / REPLACEMENT					
			. Pa	ge of		
1. Component ID 2JRCEPS	<u>V0201</u>					
2 Item Description: Pressur						
3. N-5 Data Package Number		4. W.O. Number:	<u>2724922</u>			
5. Original Construction Cod			•			
-	 Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda Work Description: Replace the Pressurizer Safety Valve with a reconditioned spare. 					
	ace the Pressurizer Safety V					
8. ISI Flaw NDE Method of Flaw Detection:						
9. Evaluation of the suitabilit	y of this worl as per the re-	Report Number:	·			
	-	-				
	ressure boundary. Spare val		ement and is being rep	aced to support		
Vendor testing. The repla	cement valve is SN BS-085	<u>566</u>				
10. Repair/Replacement Wor	-					
11. Replacement Items Const						
 Repair/Replacement Acti ASME Section XI Code/I 		•	Edition 1975 Winter A	<u>ddenda</u>		
		d 1992 Addenda				
14. Preservice Inspection Req	uired:	☐ YES ⊠ NO				
Initial 18 Date 11	116/04 If required,	, include a step in the W.O.	to perform Preservice	Inspection		
15. ASME Section XI Pressur	re Test Required:		ŀ			
Initial By Date 11	/// / If required,	include a step in the W.O.	for ISI & ANII Inspec	etion.		
Initial 18 Date 11	// / 0	e a step in the W.O. to com				
Initial 130 Date 11	// component.	_	ipiete 1415-2 Potiti pito:	to releasing the		
/			ard helow all applicable	numbers for repaired or		
Initial Date 11	replacemen	e a step in the W.O. to reco	ord below arr applicable	numbers for repaired or		
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.		
2JRCEPSV0201	N/A	BS-08566	N/A	969316		
ZJRCEI S VOZOI	IVA	123-08300	IVA	101014		
) .	· · · · · · · · · · · · · · · · · · ·					
			<u>.</u>			
	•		•			
	 					
0 1/2		<u> </u>	<u> </u>	_l		
18. Planner 10 Villa	l' 11/16/	Printed Name:	Barbara Vidal			
Signature	, ₁ D:	ate				
19. ISI Celan 1	Monow 11/1	19/04 Printed Name:	Alan Ulwaran	Log Entry an		
19. ISI Signature		ate ·				
20 ANII THE LIPTIME	· 	Z-04 Printed Name	R.G. Houstra	4		
20. ANII Signatule		ate Printed Name:		***************************************		

73DP-9ZZ17 Rev 9

PV216-04NI (8-88)

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

I. Owner: Arizona Public Service Company, et. al. Date: 11/16/04									
<u>P. O.</u>]	Box 53999, Phoeni	x Arizona 85072	-2034	;	Sheet: $\underline{1}$ of $\underline{2}$				
2. Plant: Palo V	Verde Nuclear Gen	erating Station		1	Unit: <u>2</u>				
5801 South Wintersburg Road Tonopah, Arizona 85354-7529 Work Order Number 2724922									
3. Work Performed by: Arizona Public Service Type of Code Stamp None									
				1	Authoria	zation No.	<u>N/A</u>		
				1	Expiration	on Date	<u>N/A</u>		
4. Identification o	f System: RC - Rec	ector Coolant Syste	<u>m</u>						
5. (a) Applicable	Construction Code 4	ASME Section III N	NB, Class 1	<u>1974</u> Edition	, <u>Summ</u>	er 1975 A	ddenda, <u>N/A</u> Cod	e Case	
(b) Applicable	Edition of Section 2	a Utilized for Rep	airs or Replace	ments: <u>1992</u>	2 Editio	n, 1992 <i>I</i>	Addenda		
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components	s				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica	tion	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
PSV	Dresser .	BS-08566	N/A	2PCEPSVI 2PCEPSVI our SII	0201 0201 6/05	1978	Replacement	YES	
.*									
, .								•	
				,			·		
	. Description of Work: No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08566								
8. Test Conducted:	: Hydrostatic	Pneumatic	☐ Nomi	inal Operating	g Pressu	nre 🛛	Exempt		
N-4	16-2 . Other	Pressure	psi		Test Te	mperature	°F		
•									
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include	ed on each s					

FORM NIS-2 (Back)
9. Remarks: WO # 2724922. No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08566
Pre-Pressured Test WO Review – ISI
Certificate of Compliance
We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No. N/A Expiration Date: N/A
Signed: Alan Monow ISI Engineer Date: 5/10/05 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 Krizonia and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 1/2-05 to 5-16-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions: NB 9635 N 1"A7264
Inspectors Signature National Board, State, Province, and Endorsements
Date:

ASME SECTION XI - REPAIR / REPLACEMENT Component ID 2JRCEPSV0202 2.. Item Description: Pressurizer Safety Relief Valve 3. N-5 Data Package Number: 2RC03-2 4. W.O. Number: 2724923 5. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace the Pressurizer Safety Valve with a reconditioned spare. 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08592 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 1, 1974 Edition 1974 Summer Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda ⊠ NO 14. Preservice Inspection Required: Initial 18 Date 11/16/04 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. Item ID Part No. Serial No. Heat No. MR/PO/WO No. 969316 2JRCEPSV0202 N/A BS-08592 N/A Printed Name: Barbara Vidal Printed Name: Alan Morrow Log Entry am N-22-04 Printed Name: R& Houstron

PV116-08NI (8-88)

73DP-92Z17 Rev 9

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI								
1. Owner: Arizo	na Public Service (Company, et. al.		Date	11/16/04			
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	2034	Shee	:: <u>l</u> of 2	2		
2. Plant: Palo Verde Nuclear Generating Station					Unit: 2			
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2724923								
3. Work Performed by: Arizona Public Service Type of Code Stamp None								
				Auth	orization No	. <u>N/A</u>		
				Expi	ation Date	<u>N/A</u>		
4. Identification o	f System: <u>RC - Rea</u>	ctor Coolant System	<u>m</u>			•		
5. (a) Applicable	Construction Code 2	ASME Section III N	IB. Class 1	1974 Edition, Sur	nmer 1975 A	ddenda, <u>N/A</u> Cod	le Case	
(b) Applicable	Edition of Section 2	I Utilized for Repa	airs or Replace	ments: 1992 Ed	tion, 1992	Addenda		
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
PSV	Dresser	BŚ-08592	N/A	2JACE ASVOZO 2RCEPSVOZOZ SIGOS	1979	Replacement	YES	
<u>/</u>								
				,	·			
				· .				
	Work: No failure of support Vendor te				a like-for-l	ike replacement	and is	
8. Test Conducted	: Hydrostatic	Pneumatic	Nom	inal Operating Pro	essure 🏻	Exempt		
. N-4	116-2	Pressure	psi	Tes	t Temperatur	re °F		
inches, (2) info	emental sheets in formation in items 1	thru 6 on this rep	port is include					

FORM NIS-2 (Back)
9. Remarks: WO # 2724923 No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is
being replaced to support Vendor testing. The replacement valve is SN BS-08592
·
Pre-Pressured Test WO Review - ISI Clan Monow
Pre-Pressured Test WO Review - ISI <u>Clan Monow</u> ANII 75 fram
Certificate of Compliance
We certify that the statements made in the report are correct and this replacement conforms to the rules of the
ASME Code, Section XI.
Type Code Symbol Stamp
Certificate of Authorization No. N/A Expiration Date: N/A
Signed: <u>Clan Monow ISI Engineer</u> Date: <u>S116105</u> Owner or Owner's Designee, Title
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
/ Les boiler and Pressure Vessel
I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford. Connecticut, have
inspected the components described in this Owner's report during the period of
to 5-76-63, and state that to the best of my knowledge and belief, the owner with the 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,
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.
1 1.
Inspectors Signature National Board, Suite P
Date: 5-16-0'5

ASME SECTION XI - REPAIR / REPLACEMENT

	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR		:: a Pag	ge of			
1. Component ID 2JRCEPS	<u>V0203</u>						
2 Item Description: Pressur	rizer Safety Relief Valve		•	•			
3. N-5 Data Package Number	: <u>2RC03-2</u>	4. W.O. Number: 2	2724924				
5. Original Construction Cod	le Edition: 1974 Edition, S	ummer 1975 Addenda		•			
6. Original Installation Code	Edition: 1974 Edition, Wi	nter 1975 Addenda					
7. Work Description: Repla	ace the Pressurizer Safety V	alve with a reconditioned s	spare.				
8. ISI Flaw		NDE Method of Flaw De	tection:				
	·	Report Number:					
9. Evaluation of the suitabilit	y of this work as per the req	uirements of IWA - 4150:					
No failure of ASME III p	ressure boundary. Spare val-	<u>ve is a like-for-like replace</u>	ment and is being repl	aced to support			
Vendor testing. The repla	cement valve is SN BS-0856	<u>58</u>					
				:			
10. Repair/Replacement Wor	k Organization: Arizona P	ublic Service	7				
11. Replacement Items Const			74 Edition 1974 Summ	per Addenda			
12. Repair/Replacement Activ				· · · · · · · · · · · · · · · · · · ·			
13. ASME Section XI Code/F				<u>Japrica</u>			
14. Preservice Inspection Req		☐ YES 🖾 NO					
4.1	Julied.						
Initial <u>181</u> Date <u>11</u>	//b/04 If required,	include a step in the W.O.	to perform Preservice	Inspection			
15. ASME Section XI Pressur	re Test Required:	ĭ YES □ NO	•				
Bol - 1	//// If required.	include a step in the W.O.	for ISI & ANII Inspect	tion.			
Initial 18V Date 1	. //~/	-	•				
Initial My Date 11	16. Include component.	a step in the W.O. to comp	plete NIS-2 Form prior	to releasing the			
Initial By Date 1	1/16/04 17. Include replacement	a step in the W.O. to record	d below all applicable	numbers for repaired or			
/			·				
Item ID	Part No.	Serial No.	Heat No.	(MR)PO/WO No.			
ZJRCEPSV0203	N/A	BS-08568	N/A	969316			
			<u> </u>				
		· · · · · · · · · · · · · · · · · · ·					
			·				
1 1 1 1							
8. Planner Bud	8. Planner Bullet 11/16/0 4 Printed Name: Barbara Vidal						
Signature	' Da	te'					
o yes Money M	nmener 11/1	9/04 Printed Name:	Al- Ul ad corre	J. Og Entry Odda			
9. ISI <u>Clan W</u> Signature	Da		Alan Morron	- Tog Budy			
21/4		tval	R.G. HUESTROM				
0. ANII		Printed Name:	16.66. AUESTRON				
Signanire	Da	te .					

As Required by the Provisions of the ASME Code Section XI							
I. Owner: Arizo	ona Public Service	Company, et. al.		Dâte	: 11/16/04		
<u>P. O.</u>	Box 53999, Phoen	ix Arizona 85072	-2034	Shee	t: <u>1</u> of :	<u>2</u>	
2. Plant: Palo	Verde Nuclear Gen	erating Station		Unit	2		
<u>5801</u>	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529 Wor	c Order Num	iber <u>2724924</u>	•
3. Work Performed by: Arizona Public Service Type of Code Stamp None							
•	Authorization No. N/A						
•		Expi	ation Date	<u>N/A</u>			
4. Identification of	of System: <u>RC - Re</u>	actor Coolant Syste	<u>m</u>				
5. (a) Applicable	Construction Code	ASME Section III N	VB, Class 1	1974 Edition, <u>Sur</u>	nmer 1975 A	ddenda, <u>N/A</u> Cod	le Case
(b) Applicable	Edition of Section 2	XI Utilized for Repa	airs or Replace	ments: <u>1992 Ed</u>	ition, 1992	Addenda	
6. Identification of	of Components Repair	ired or Replaced an	d Replacement	t Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
PSV	Dresser	BS-08568	N/A	DALEPSVOZOS 2RCEPSVOZOS SILOS	1978	Replacement	YES
1							
,							
		•					
7. Description of Work: No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08568							
8. Test Conducted	: Hydrostatic	☐ Pneumatic	☐ Nom	inal Operating Pro	essure 🛭	Exempt	
N-4	116-2 Other	Pressure	psi	Tes	Temperatur	e °F	
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include				

	FORM NIS-2 (Back)
9.	Remarks: WO # 2724924. No failure of ASME III pressure boundary. Spare valve is a like-for-like replacement and is being replaced to support Vendor testing. The replacement valve is SN BS-08568
P	re-Pressured Test WO Review – ISI
	Certificate of Compliance
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of (10-0), and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

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

Commissions: NB 9685 N 17 AZ264

National Board, State, Province, and Endorsements

Date: 5-16-05

ASME SECTION XI – REPAIR / REPLACEMENT						
Pageof						
1. Component ID 2PSIEV247 2 Item Description: SIT 1B Discharge Check Valve to RC Loop 1B 3. N-5 Data Package Number: 2RC01-1B 4. W.O. Number: 2726216 5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace valve parts as required to correct identified deficiencies 8. ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: Page of						
 Repair/Replacement World Replacement Items Constitute Repair/Replacement Active ASME Section XI Code/E Preservice Inspection Required Date (1-) 	ruction or reconciled Cod vity Construction Code/Edition: 1992 Edition a quired: 15 - 64 - 164 If required	de/Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: YES NO	Edition 1975 Winter Ac	idenda /		
15. ASME Section XI Pressur	·	-	- RPI 5/4/0	•		
Initial J.D Date // Initial J.D Date //	6-04 16. Include componer	de a step in the W.O. to recor	plete NIS-2 Form prior	to releasing the		
Item ID ,	Part No.	Serial No.	Heat No.	MR/PO/WO No.		
BONNET, ARM & DISC ASSY	75906	PISC SN 15	N/A	2748686		
BONNET	75907 NC	9919-27				
		P66 RIR2	N/4	2748686		
		5WN243				
		P638				
		BONNET SN 14	NA	2748686		
18. Planner Signature	Di 11-6	Date Printed Name: <u>J</u>	James I. Davis			
19. ISI <u>Sean</u> 19		Date	Alan eccorn			
20. ANII Signahure		Date Printed Name:	RG downzor	1		

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	na Public Service	Company, et. al.		!	Date: (05/07/05		
<u>P. O. 1</u>	Box 53999, Phoeni	ix Arizona 85072	<u>-2034</u>		Sheet: $\underline{1}$ of $\underline{2}$			
2. Plant: Palo V	Verde Nuclear Gen	erating Station			Unit: <u>2</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529	Work O	rder Nur	nber 2726216	
3. Work Performe	ed by: <u>Arizona Publi</u>	c Service Co.			Type of	Code St	amp <u>None</u>	
	5801 S. Winter	rsburg Rd., Tonopa	h, Arizona, 85	354-7529	Authori	zation No	o. <u>N/A</u>	
Expiration D						on Date	<u>N/A</u>	
4. Identification of System: SI								
5. (a) Applicable	Construction Code	ASME Section III 1	NB, Class 1	1974 Edition	, Winter	r 1975 A	ddenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section 2	CI Utilized for Repa	airs or Replace	ments: <u>199</u> 2	2 Editic	on, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced an	d Replacement	t Component	s			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
14" Check Valve	Borg Warner	31500	987	2PSIEV2	35	1978	Repaired	Yes
Bonnet	Borg Warner	. 23	N/A	2X69		1978	Replaced	Yes
Disc	Borg Warner	unknown am sliclos	· N/A	2X42		1978	Replaced	Yes
Bonnet	Borg Warner	14	N/A	2X62		1978 [.]	Replacement	Yes
Disc ,	Borg Warner	15	N/A	2X47		1978	Replacement	Yes
		•		٠		•		
7. Description of V	Vork: Replaced the	bonnet/arm/disk as	ssembly to con	rect seat leak	age.		÷	
8. Test Conducted:	Hydrostatic [Pneumatic	Nominal Or	perating Pres	ssure 🛭] Exe	empt 🗌 N-4	116-2
Oth	er Press	ure psi	· ·	•	Test To	emperatu	re °F	
	٠					,		
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ont is include					

FORM NIS-2 (Back)

originally installed in 3PSIEV227 (Borg-Warner valve s/n and reworked under W.O. 2748686.	32618 N.B. 1139 built 1978) removed under W.O. 2607928
Pre-Pressure Test Work Order Review: ISI:	morow
Pre-Pressure Test Work Order Review: ISI:	5-16-01
· •	
Certificate o	f Compliance
We certify that the statements made in the report are c ASME Code, Section XI.	correct and this repair conforms to the rules of the
Type Code Symbol StampN/A	
Certificate of Authorization No. N/A	
Signed: Clean Monow 751 Owner or Owner's Designee, Title	Eugeneur Date: 5/14/05
	1
	• •
CERTIFICATE OF INS	SERVICE INSPECTION
inspected the components described in this Owner's r to, and state that to the best	d by the National Board of boiler and Pressure Vessel in ployed by HSB CT of Hartford, Connecticut, have eport during the period of 4-2-01 of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
concerning the examinations and corrective measures the Inspector nor his employer shall be liable in any moloss of any kind arising from or connected with this installed	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection. Commissions: Was Suff Aut
Inspectors Signature Date: 50 16-05	·
Date: 05 /6 65	-

PV-E0092 Ver. 7 Back

73DP-9ZZ17 Rev 8

ASME SECTION XI - REPAIR / REPLACEMENT Page of 1. Component ID 2MEWBE01 3. Item Description: Essential Cooling Water Heat Exchanger "B" Spray Pond Side 4. N-5 Data Package Number: 2EW02-1 5. W.O. Number: 2733193 6. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 7. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 8. Work Description: WELD BUILD-UP MATERIAL REPAIR OF DEFECTS IDENTIFIED IN EW "B" HEAT EXCH. 9. ISI Flaw NDE Method of Flaw Detection: Report Number: 10. Evaluation of the suitability of this work as per the requirements of IWA - 4150: WELD REPAIR REQUIRED AFTER INSPECTION OF THE METAL SURFACES PRIOR TO PERIODIC COATING, THERE WAS NO FAILURE OF THE CODE PRESSURE BOUNDRY. 11. Repair/Replacement Work Organization: Arizona Public Service 12. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda 13. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 3, 1974 Edition 1975 Winter Addenda 14. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 15. Preservice Inspection Required: ☐ YES M NO N/M Date Electrical If required, include a step in the W.O. to perform Preservice Inspection 16. ASME Section XI Pressure Test Required: ⊠ · YES П № If required, include a step in the W.O. for ISI & ANII Inspection. Initial WS Date 4/25/2003 17. Include a step in the W.O. to complete NIS-2 Form prior to releasing the Initial kos Date 4/25/2015 component. 18. Include a step in the W.O. to record below all applicable numbers for repaired or Kos Date 4/26/2015 replacement items. Item ID Part No. Serial No. Heat No. MR/PO/WO No. 2MEWBE01 N/A N/A · N/A N/A Printed Name: Karl V. Savage Printed Name: WILEY AHLSTEOM Printed Name: R& HOGSTROM 4-26-05 Date

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

As Required by the Provisions of the ASME Code Section XI

A CONTRACTOR OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF TH								
1. Owner: Arizona Public Service Company, et. al. Date: 04/25/2005						<u>05</u>		
P. O. Box 53999, Phoenix Arizona 85072-2034					Sheet: <u>1</u> of <u>2</u>			
2. Plant: Palo Verde Nuclear Generating Station					nit: <u>2</u>			
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529					ork Order Nur	mber <u>2733193</u>		
3. Work Performed by: Arizona Public Service					pe of Code St	amp <u>None</u>		
5801 S. Wintersburg Rd., Tonopah Arizona, 85354-7529					thorization N	o. <u>N/A</u>		
·				Ex	piration Date	<u>N/A</u>		
4. Identification o	f System: <u>EW, ASI</u>	ME Section III, Cla	ss 3			·		
5. (a) Applicable	Construction Code 4	ASME Section III N	ND, Class 3	1974 Edition, <u>1</u>	Winter '75 Ad	denda, Co	de Case	
(b) Applicable	Edition of Section 2	KI Utilized for Repa	airs or Replace	ments: <u>1992</u>]	Edition, 1992	Addenda		
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificatio	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
2B EW Ht. Exh.	Struther Wells Corp.	17606329142	14533	2MEWBE01	1979	Repaired	YES	
							·	
			·					
				•				
7. Description of V	Vork: Weld Build	up, Material Rep	air.			·	······	
8. Test Conducted:	Hydrostatic	Pneumatic	Nominal Op	erating Pressu	re 🛛 Ex	empt N-4	16-1	
Oth	er Pressu	ıre psi	-	Т	est Temperatu	re°F		
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include					

FORM NIS-2 (Back)

Remarks: Work Order 2733197 Te-fix med Weld Repair/Build-up of Eroded areas designated by Engineering in the Tube (Spray Pond) side of the EW Heat Exchanger. Pressure Test at Normal Operating Pressure.

Certificate of Compliance								
We certify that the statements made in the repo	ort are cor	rect and this repair conforms to	the rules of the					
Type Code Symbol Stamp	N/A							
Certificate of Authorization No.	N/A	Expiration Date: _	N/A					
Signed: Owner or Owner's Designed		ISI Engineer Date:	5/4/05					

CERTIFICATE OF INSERVICE INSPECTION

CERTIFICATE OF MIS	ERVICE HISTECTION
Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	by the National Board of boiler and Pressure Vessel apployed by HSB CT of Hartford, Connecticut, have eport during the period of
	described in this Owner's report. Furthermore, neither anner for any personal injury or property damage or a
nspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements

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

	ASME SECTION	N XI – REPAIR / REI	PLACEMENT	•
	·		· Pa	ge of
1. Component ID BS-08592	2		•	•
2 Item Description: Reacto				•
3. N-5 Data Package Number		4. W.O. Number	: <u>2733478</u>	
5. Original Construction Code				
6. Original Installation Code7. Work Description: Over	•			
8. ☐ ISI Flaw	made and testing of spare	NDE Method of Flaw 1	Detection:	
		Report Number:		
9. Evaluation of the suitabili	ty of this work as per the	requirements of IWA - 415	0:	•
No failure of ASME III	pressure boundry. The sp	indle replacement was to co	rrect normal wear, there	was no stuctural
failure.				
	•			
10. Repair/Replacement Wor	rk Organization: <u>NWS</u>	Technologies		
11. Replacement Items Cons	truction or reconciled Co	ode/Edition: Sec.III Cl 1,	1974 Edition 1975 Summ	ner Addenda
12. Repair/Replacement Acti	- *		4 Edition 1975 Winter A	ddenda
13. ASME Section XI Code/	•	and 1992 Addenda		
14. Preservice Inspection Red	•	☐ YES ⊠ NO		•
Initial ARB Date 05	FOI 2005 If requir	ed, include a step in the W.	O. to perform Preservice	Inspection
15. ASME Section XI Pressu		☐ YES 🖾 N		
itial KB Date of	401 zoo5 If requir	ed, include a step in the W.	O. for ISI & ANII Inspec	ction.
Initial Date 0	2 0/ 2005 compone	ude a step in the W.O. to co	implete 1410-21 orm prio	. to releasing the
Sop	./ ,	ude a step in the W.O. to re	cord below all applicable	e numbers for repaired or
Initial Date O	7. 87 2000 replacen	ude a step in the W.O. to re- nent items.		
Item ID ·	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Spindle	APN 45560002	N/A	75903	MR 735255
		•		
	7			
		_ 		_
18. Planner Signature	Hay c	Date Date Name	e: Scott R. Baize	B19 4-1-25
19. ISI Thatap	04/	05/05 Printed Name	R.P. Indas	Log Entry RPR
Signature			•	
ANII The hyten	. 4	-5-05 Printed Name	R.G. HOLESTRO.	· •
Signature		Date - Filmed Ivalie		

73DP-9ZZ17 Rev 9

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

As Required by the Provisions of the ASME Code Section XI

		1.1.10						
1. Owner: Arizo	ona Public Service	Company, et. al.			Date: <u>04</u>	<u>/01/2005</u>		
<u>P. O.</u>	Box 53999, Phoen	ix Arizona 85072-20	<u>034</u>		Sheet:	<u>1</u> of <u>2</u>		
2. Plant: Palo	Verde Nuclear Gen	erating Station			Unit: 2			
5801	South Wintersburg	Road., Tonopah, A	rizona 8535	<u>54-7529</u>	Work Ord	er Numbe	r <u>2733478</u>	
3. Work Perform	ed by: <u>NWS Techno</u>	logies			Type of C	ode Stamp	None None	
	·				Authoriza	tion No.	<u>N/A</u>	
	,				Expiration	Date N/	<u>'A</u>	
4. Identification of	of System: RC (Rea	actor Coolant)						
5. (a) Applicable	Construction Code	ASME Section III NE	3, Class 1	1 <u>974</u> Editio	n, <u>Summer</u>	<u>1975</u> Add	enda, <u>N/A</u> Code	: Case
(b) Applicable	Edition of Section 2	XI Utilized for Repair	s or Replace	ments: <u>199</u>	92 Edition.	, 1992 Ac	ldenda	
6. Identification of	of Components Repair	ired or Replaced and I	Replacement	Componer	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.		her lication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or
spindle	Dresser	N/A	N/A	2JRCEPS	V0202	2005	Replacement	NO NO
								<u></u>
								
		· · · · · · · · · · · · · · · · · · ·						
· · · · · · · · · · · · · · · · · · ·					, <u></u>			
								
7. Description of	Work: Recondition	and test spare pres	surizer safe	ty valves			<u> </u>	
8. Test Conducted	: Hydrostatic	Pneumatic [Nomi	nal Operati	ing Pressure		Exempt 🔯	
. N-	416-2 Other	Pressure psi			Test Ten	perature	°F	
inches, (2) info	ormation in items 1	orm of lists, sketche thru 6 on this repo led at the to of this	rt is include					

	ORM NIS-2 (Back)
P. Remarks: WO#2733478 Replaced pressure s	safety valve spindle AFN 45560002. In the PSV serial # BS-08592
Pro Proceured Test WO Review _ ISI	N/A
ANII	
Ce	ertificate of Compliance
We certify that the statements made in the ASME Code, Section XI.	report are correct and this replacement conforms to the rules of the
Type Code Symbol Stamp	<u>N/A</u>
Certificate of Authorization No.	N/A Expiration Date: N/A
Signed: Prodap, Consultin	n Metallumial Engineer Date: 4/5/2005
Owner or Owner's Des	signee, Title
<u></u>	
CERTIFICATI	E OF INSERVICE INSPECTION
CERTIFICATI	E OF INSERVICE INSPECTION
	ission issued by the National Board of boiler and Pressure Vessel
	rizona and employed by HSB CT of Hartford, Connecticut, have is Owner's report during the period of
to <u>~-s-os</u> , and state tha	at to the best of my knowledge and belief, the Owner has performed sures described in this Owner's Report in accordance with the
requirements of the ASME Code, Section	
<u> </u>	
By signing this certificate, neither the Insp	pector nor his employer makes any warranty, expressed or implied,
	ve measures described in this Owner's report. Furthermore, neither lible in any manner for any personal injury or property damage or a with this inspection.
25/+	Commission ND OCOF (DD) (CD) A 772CA
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: ~-5-65	

	ASME SECTION X	I – REPAIR / REPL	ACEMENT	
			Pa	ge i of i
 Component ID 2JEWALY Item Description: Essenti N-5 Data Package Number Original Construction Code Original Installation Code Work Description: Remo ISI Flaw Evaluation of the suitability No failure in the ASME be 	al Chill Water System Surge: 2EW01-3 e Edition: 1974 Edition, Wire Edition: 1974 Edition, Wire Edition and replace valve body /	4. W.O. Number: 2 Inter 1975 Addenda Inter 1975 Addenda bonnet and perform interr NDE Method of Flaw Deta Report Number: Interpretable of IWA - 4150:	Valve. 744635 nal rework. ection:	
10. Repair/Replacement Word 11. Replacement Items Const 12. Repair/Replacement Acti 13. ASME Section XI Code/I 14. Preservice Inspection Recommendate Initial Section XI Pressur Initial Section Date 12 Initial Section Date 12 Initial Section Date 12 Initial Section Date 12 Initial Section Date 12 Initial Section Date 12	ruction or reconciled Code/Edition Code/Edition: 1992 Edition and quired: 15	Edition: Sec. III Cl 3, 197 ion: Sec. III Cl 3, 1974 E 1992 Addenda YES NO include a step in the W.O. 1 YES NO include a step in the W.O. 1 a step in the W.O. to comp	dition 1975 Winter A to perform Preservice for ISI & ANII Inspec	ction. or to releasing the
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
76HH-001 Value Body	00086699	7441		MK/00930716-0001
Main Disc	4502 -000497	21A		401 504 04/110 4200 122 /114
MainDisc	4502-000497	21A		MR/0913062/00 PO/60209410 2744635
Bonnet	4506-0111	327		#X60938492-0002 #0160185393 wd/2244636
			·	·
18. Planner Signature 19. ISI Signature 20. ANII Signature Signature	P 12/2 Da 12-21-c	Printed Name:		Log Entry REP

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizo	na Public Service (Company, et. al.		. I	Date:	2/3/2004		
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet						<u>1</u> of	2	
2. Plant: Palo V	Verde Nuclear Gene	erating Station		τ	Jnit: 2	<u>2</u>		
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54 <u>-7529</u> \	Work (Order Nun	iber 2744635	
3. Work Performe	d by: Arizona Public	Service Co.		מ	Гуре о	f Code Sta	mp <u>None</u>	·
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 853	354-7529 A	Author	rization No	. <u>N/A</u>	
				I	Expira	tion Date	<u>N/A</u>	
4. Identification o	f System: 2EW01-3	<u>3</u>						
5. (a) Applicable	Construction Code A	ASME Section III N	VB, Class 3	974 Edition,	Wint	er 1975 Ad	idenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section X	KI Utilized for Repa	airs or Replace	ments: <u>1992</u>	Edit	ion, 1992	Addenda	
6. Identification o	f Components Repai	red or Replaced and	d Replacement	Components	5			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificat	ion	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Target Rock	5	N/A	2JEWALV	0091	1978	Replaced	Yes
Valve Body	Target Rock	7441	N/A	2JEWALV	0091	2005	Replacement	Yes
Bonnet	Target Rock	327	N/A	2JEWALV	0091	1990	Replacement	Yes
Main Disc	Target Rock	21A	N/A	2JEWALV	0091	1991	Replacement	Yes
						_		
7. Description of \	Work: Remove/replace	ce valve body & bo	onnet, rework v	alve internal	s, rein	stall bonne	et tack weld.	
8. Test Conducted	: Hydrostatic [Pneumatic	Nominal Op	perating Pres	sure [Exe	empt N-4	16-2 🛭
Oth	er Pressi	ure <u>120</u> psi			Test ?	Temperatu	re <u>70</u> °F	
·	· ·					•		
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM NIS-2 (Back)					
Remarks: remove bonnet tack, remove internals, replace valve body and bonnet tack	connet, rework valve internals and reinstall				
W.O. 2744635					
Pre-Pressured Test WO Review – ISI					
ANII " N/A	· · · · · · · · · · · · · · · · · · ·				
Ann	· ·				
Certificate of Complia	nce				
We certify that the statements made in the report are correct and this ASME Code, Section XI.	replacement conforms to the rules of the				
Type Code Symbol Stamp N/A					
Certificate of Authorization No. N/A	Expiration Date: <u>N/A</u>				
Signed: Pholop. Consulting Metallurgical owner or Owner's Designee, Title	EnginkerDate: 2-3-2005				
CERTIFICATE OF INSERVICE I	INSPECTION				
I, the undersigned, holding a valid commission issued by the Natio Inspectors and the State or Province of Arizona and employed by HS inspected the components described in this Owner's report during the 2-3-05, and state that to the best of my knowle examinations and taken corrective measures described in this O requirements of the ASME Code, Section XI.	SB CT of Hartford, Connecticut, have the period of (2-21-0-4) dge and belief, the Owner has performed				
By signing this certificate, neither the Inspector nor his employer matconcerning the examinations and corrective measures described in the Inspector nor his employer shall be liable in any manner for any loss of any kind arising from or connected with this inspection.	nis Owner's report. Furthermore, neither				
Commission Lospectors Signature	ns: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements				
Date: 2-3-05	·				

PV216-08NI (8-88)

Pg Z of 8

73DP-9ZZ17 Rev 9

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES' As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pg. 1 of 2

Manufactured and certif	ied by <u>Target Rock.; 19</u> (name an	66E Broadhollow Rd.; E. Fa	ırmingdale, N e Holder)	Y 11735
2. Manufactured for	Arizona Public Service Co.; (name and address of F	Phoenix, AZ 85072 Purchaser)		·
3. Location of installation	Palo Verde Nuclear Ge (n	nerating Station; Wintersbuarne and address)	rg Rd.: Tono	pah. AZ
4. Type <u>206134-1</u> (drawing no.)	SA182 F316L (mat'i. spec. no.)	75 ksi (tensile strength)	N/A (CRN)	2005 (year built)
5. ASME Code, Section III	, Division 1: 1974 (edition)	Winter 1975 (addenda date)	(class)	None (Code Case no.)
6. Fabricated in accordance	ce with Const. Spec. (Div. 2	only) N/A Revision (no.)	on <u>N/A</u>	Date N/A
7. Remarks: Valve B	ody, p/n 200928-1 with Sle part for valve model no. 76	eve p/n 102178-1 installed HH-001		
		s (in.) <u>N/A</u> Dia. ID (ft & in.)		
Part or Appurtenance	National Board No. In Numerical Order NA	Part or Appurtena Serial Number (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)	r j	National Board No. Numerical Order

^{*} Supplemental information in form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

^(12/88) This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300 REPRINT (7/91)

FORM N-2 (BACK - Pg. 2 of 2)

Certificate Holder's Serial Nos. 206134-1 s/n 7441

Standard Standard							
CERTIFICATION OF DESIGN							
Design specifications certified by <u>V. Najarian/A.I. Pressman</u> P.E. State <u>AZ</u> Reg. No. <u>10746/10409</u>							
(when applicable) Design report* certified by Albert J. Bradicich P.E. State NY Reg. No. 025990 (when applicable)							
CERTIFICATE OF COMPLIANCE							
We certify that the statements made in this report are correct and that this (these) Parts conforms to the rules for construction of the ASME Code, Section III, Division 1.							
NPT Certificate of Authorization No. N-1948 Expires 03/11/2005							
Date ////3c c5 Name Target Rock Signed R. E. Glazier; QA Manager (authorized representative)							
CERTIFICATE OF INSPECTION							
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of New York and employed by OneBeacon America Insurance Co. of Boston, MA have inspected the pump, or valve, described in this Data Report on //// 2005 and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above.							
By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection.							
Date Signed Commissions N. 5703 (Authorized Inspector) (Nat'l. Bd. (Incl. endorsements) and state or prov. and no.)							

Revised 11-6-91

Bajada/

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PÄRTS AND APPURTENANCES***

Aз	Required by the	Provisions of the	ASME Cod	le, Section	III .:
	Not To	Exceed One Day'	- Productio	-	

The first of the first of the Front Court of the	
Not To Exceed One Day's Production	Pg. 1 of 1
Target Pock Corp. 1966; Broadballou Dd. E. Farris	A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH

١.	Manufactured and certified by	Target week series and a series was a	Totaling Care, HI 11753
	•	i, ame and address of NPT Certificate Holder)	•
	· ·		

Arizona Public Service Co., Phoenix, Arizona

Palo Verde Nuclear Generating Station, Wintersburg, Arizona 3. Location of Installation SA 479 410 70 KS frame and address!

4. Type 200861-1 SA 479 316L **70 KSI** 1990 N/A (tensee strength) Winter Imat'l. spec. nu.) N/A 1974 *-5-76--3 5. ASME Code, Section III:

[class] (Code Case no.) N/A N/A N/A 6. Fabricated in accordance with Const. Spec. (Div. 2 only)

7. Remarks: Spare Parts for a completed valve - Model 76HH-001

Bonnet Ass'y

N/A B. Nom. thickness (in.) N/A N/A N/A Min. design thickness (in.) Length overall (ft & in.).

9. When applicable, Certificate Holdars' Data Reports are attached for each item of this report:

Part or Appurtenance Serial Number	National Board No.	Part or Appurtenance Serial Number	National Board Number	
	in Numerical Order		in Numerical Order	
324	N/A	(26)		
323	N/A	(27)		
31 325	N/A	(28)		
4) - 327	N/A	(29)		
330	N/A	(30)		
333	N/A	(31)		
342	N/A	. (32)		
8) N/A	· N/A	(33)		_
91		(34)		
0)		(35)		
1)	· · · · · · · · · · · · · · · · · · ·	(36)		1
2)		(37)		
31		(38)		
ā)		_ (39)		{
51		(40)	·	
5)		- (41)		\dashv
7) 		- 142)		
81	·	(43)		
91		- (44)		
0)		(45)		{
1)		(48)		\dashv
2)		- (47)		
31	***************************************	- (48)		
4)		- (49) 	·····	\dashv
5)		(50)		

AMB *Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 % x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

112/861

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

W.O. 2744635

FORM N-2 (back)

205

W.O. 27

,	··-		raint: Daties (40.	
	CERTIFICATION OF DE	SIGN		•
Design specifications certified byV. Najar	twhen applicable!	P.E. State	AZ Reg. no.	10746
Design report® certified by(w	hen applicable)	P.E. State .	Reg. no.	
CERT	IFICATE OF SHOP COM	APLIANCE		
We certify that the statements made in this report are corr conforms to the rules of construction of the ASME Code, S			Part	
NPT Certificate of Authorization No. 1948		Expires12-	12-92	
Date 1///QC Name Target Rock C		<i>y</i> .	icida withorized representativel Q.A. Manager	
CERT	TIFICATE OF SHOP INS	PECTION '		
I, the undersigned, holding a valid commission issued by the New York and employed by Communic	he National Board of Boil Ial Union Insur	er and Pressure Vessel Inspance Company	sectors and the State of	or Province of
of Boston, Mass. have inspected these items best of my knowledge and belief, the Certificate Holder hall. Each part listed has been authorized for stamping on the	described in this Data Re is fabricated these parts	eport on	go, and sta	
By signing this certificate, neither the inspector nor his em in this Data Report, Furthermore, neither the inspector nor				
loss of any kind arising from or connected with this inspector nor	1 / / / ·	A N.Y.STAT	E COMANIASION	::::::::::::::::::::::::::::::::::::::

Pa 6 0= 8

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III Not To Exceed One Day's Production

Pg.	1	of	1
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7					. 5 0
1.	Manufactured and certif	ied by Target Rock Cor	p., 1966E Broad	hoilow Rd, E.	Farmingdale, NY 11735
2.	Manufactured for	Arizona Public Servic		AZ 85072	
3.	Location of installation _	Palo Verde NGS: Wint	ersburg, AZ 953		
4.	Type 200931-1	SA-564 630 (mat'l. spec, no.)	140,000	N/A	1991
••	(drawing no.)	(mat'l. spec. no.)	(tensile strength)	(CRN)	(year built)
5.	ASME Code, Section III:	1974	Winter 1975	3	N/A
		(edition)	(addenda deta)	(class)	(Code Case no.)
6.	Fabricated in accordance	with Const. Spec. (Div. 2 only) _	N/A R	evision N/A	Date N/A
7.	Remarks: Spare	Parts for a complete		y, Model Nos.	76нн-001
	and 7	6нн-004, Р/N 200931-1			•
					_
8.	Nom. thickness (in.)	N/A Min. design thickness (in) N/A Dia. ID (I	t & in.) N/A Le	ngth overall (ft & in.) N/A
9.	When applicable, Certific	ate Holders' Data Reports are att	ached for each item of t	his report:	

Part or Appurtenance	National	Part or Appurtenance
Serial Number	Board No.	Serial Number
	in Numerical Order	
(1)17A	N/A	. (26)
(2) 18A	N/A	(27)
(3) 19A	N/A	(28) P.O.N
(4) 20A	N/A	(29) QUAL
(5)21A	N/A	(30) PAGE
(6) 22A	N/A	PAGE
(7) 23A	N/A	(32)
(8) N/A	N/A	(33)
(9)		(34)
10)		(35)
11)		(36)
12)		(37)
13)		(38)
14)		(39)
15)		(40)
16)		(41)
17)		(42)
18)		. (43)
19)		(44)*
20)		[45]
21)		(46)
22)		(47)
231		(48)
241		(49)
25)		(50)

Part or Appurtenance Serial Number	National Board Number
Co	in Numerical Order
26)	
27)	
28) P.O.No.	002000
29) QUALITY	0020200
30) PAGE	
31) PAGE	0:56
32)	
33)	<u> </u>
34)	<u> </u>
35)	
36)	
37)	<u> </u>
38)	
39)	
40)	
41)	
42)	
43)	
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45)	
46)	<u> </u>
47)	
48)	
49)	
	1

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) Information in Items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/86)

10. Design pressure -

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

°F. Hydro. test pressure _

(when applicable)

FORM N-2 (back)

<u> </u>	•		••	Mfr. Se	rial No. N/	Α
t 1900 přídovníhoval († 1947 – 1967) 1970	CERTIFICATION OF I	DESIGN				6
Design specifications certified by	(when applicable)					
Design report* certified by	N/A (when applicable)	·	P.E. State _	N/A	Reg. no	N/A
	CERTIFICATE OF SHOP C	OMPLIANCE				
		•		Par	rt	
We certify that the statements made in this reconforms to the rules of construction of the A		e)				
NPT Certificate of Authorization No.	1948	Expires _	12	-12-92	2	
Date 4/24/4/ Name Targe	t Rock Corporation (NPT Certificate Holder)		/ (utharized	presentative) Manager	
	CERTIFICATE OF SHOP I	NSPECTION				
I, the undersigned, holding a valid commission New York and employed by	n Issued by the National Board of E Commercial Union Ins	Boiler and Pressu	re Vessel Insp pany	ectors an	d the State or	Province of
of <u>Boston</u> , <u>Mass</u> have inspected best of my knowledge and belief, the Certifica	these items described in this Data	Report on	7/20	ance with		e that to the ode, Section
III. Each part listed has been authorized for sta	amping on the date shown above.					
By signing this certificate, neither the inspect	or nor his employer makes any wa	rranty, expresse	d or implied, c	onceming	the equipmen	nt described
in this Data Report. Furthermore, neither the in		liable in any mar	ner for any pe	rsonal ini	ury or propert	y damage or
loss of any kind arising from or connected with Date 12091 Signed		O N.	SHOMMISS!	ONED IN	ISSION NO PENN., OHIO	a cunn.

P.O. No. 60209410
QUALITY DOCUMENTS
PAGE 20 of 36

ASME SECTION XI - REPAIR / REPLACEMENT Page Component ID 2JCHAHV0205 2.. Item Description: Pressurizer aux spray control valve 3. N-5 Data Package Number: 2RC03-1A 4. W.O. Number: 2747369 5. Original Construction Code Edition: 1977 edition, winter 1977 addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Remove valcor valve and replace with Target Rock iaw eng diwo 2747369 NDE Method of Flaw Detection: 8. ISI Flaw Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: of Valve seat leakage unacceptable and being replaced with a valve with betterdesign. RPP 2/10/09 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec III Cl1, 1977 edition, 1977 winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 1, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: Initial JEO Date 2/10/05 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: initial #60 Date 1/10/05 If required, include a step in the W.O. for ISI & ANII Inspection. Initial Date 2/10/05 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. Date 2/10/05 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. Part No. Serial No. Heat No. Item ID MR/PO/WO No. 17L-003 HP 960198-1+2 valve CPLG HT CODE-HVA 5A 182-F304 6000 PD 34270090. 01.483 Who 2747369 5A376/312 TYPE PIPE HT 30549 PO500259216.01

Amundro 3/10/05 Printed Name: 6.05monpson

Log 2/10/05 Printed Name: P. TNDAP Log Entry PP.

Ire Date 2-10-05 Printed Name: R-C. Hocestron

	الراب والمنتقد المتراجع والمتراجع							
1. Owner: Arizo	na Public Service (Company, et. al.		,	Date:	05/13/05		
<u>P. O. I</u>	30x 53999, Phoeni	x Arizona 85072-	2034		Sheet:	<u>1</u> of	2	•
2. Plant: Palo Verde Nuclear Generating Station Unit: 2								
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	4-7529	Work	Order Nun	iber 2747369	
3. Work Performe	d by: Arizona Public	c Service Co.			Туре	of Code Sta	mp <u>None</u>	
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 853	<u> 354-7529</u>	Autho	rization No	. <u>N/A</u>	
					Expira	tion Date	<u>N/A</u>	
4. Identification o	f System: SP							
5. (a) Applicable	Construction Code		. 1	<u>1974</u> Editio	n, Adde	enda, Code	Case	
(b) Applicable	Edition of Section >	(I Utilized for Repa	airs or Replace	ments: <u>199</u>	92 Edit	ion, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Componer	its			,,
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identific		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Valve	Target Rock	8	N/A	2JCHAHV	0205	1996	Replacement	Yes
Valve	Valcor	4	N/A	2JCHAHV	0205	1983	Replaced	Yes .
,		·						
•								
						-		
7. Description of	Work: Remove Val	cor Valve and repla	ice with Target	Rock Valv	/e			
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pro	essure	☐ Ex	empt 🔲 N-4	116-2 🛛
Oth	ner Press	ure psi	•		Test	Temperatu	re °F	
				٠		•		
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	port is include					

FORM NIS-2 (Back)

e-Pressure Test W.O. Review : ISI	lin & Mobile 5/13/05
ANII	an E //13/05
C	Certificate of Compliance
We certify that the statements made in a ASME Code, Section XI.	the report are correct and this repair conforms to the rules of the
Type Code Symbol Stamp	N/A
Certificate of Authorization No.	N/A Expiration Date: N/A
	rour ISI Engineer Date: 5/16/05 Designee, Title
·	
CERTIFICA	TE OF INSERVICE INSPECTION
I, the undersigned, holding a valid com Inspectors and the State or Province of inspected the components described in to, and state	nmission issued by the National Board of boiler and Pressure Vesses. Arizona and employed by HSB CT of Hartford, Connecticut, have this Owner's report during the period of 42-05 that to the best of my knowledge and belief, the Owner has performe easures described in this Owner's Report in accordance with the
I, the undersigned, holding a valid come Inspectors and the State or Province of inspected the components described in to, and state examinations and taken corrective me	nmission issued by the National Board of boiler and Pressure Vesses. Arizona and employed by HSB CT of Hartford, Connecticut, have this Owner's report during the period of 42-05 that to the best of my knowledge and belief, the Owner has performe easures described in this Owner's Report in accordance with the
I, the undersigned, holding a valid com Inspectors and the State or Province of inspected the components described in to and state examinations and taken corrective me requirements of the ASME Code, Section By signing this certificate, neither the laconcerning the examinations and corrections.	nmission issued by the National Board of boiler and Pressure Vesses Arizona and employed by HSB CT of Hartford. Connecticut, have this Owner's report during the period of 42-05 that to the best of my knowledge and belief, the Owner has performe easures described in this Owner's Report in accordance with the on XI. Inspector nor his employer makes any warranty, expressed or implied the cive measures described in this Owner's report. Furthermore, neither liable in any manner for any personal injury or property damage or
I, the undersigned, holding a valid com Inspectors and the State or Province of inspected the components described in to, and state examinations and taken corrective me requirements of the ASME Code, Section By signing this certificate, neither the I concerning the examinations and correct the Inspector nor his employer shall be	nmission issued by the National Board of boiler and Pressure Vesses Arizona and employed by HSB CT of Hartford. Connecticut, have this Owner's report during the period of 42-05 that to the best of my knowledge and belief, the Owner has performe easures described in this Owner's Report in accordance with the on XI. Inspector nor his employer makes any warranty, expressed or implied the cive measures described in this Owner's report. Furthermore, neither liable in any manner for any personal injury or property damage or

73DP-9ZZ17 Rev 8

·	ASME SECTION 2	KI – REPAIR / REPL	•	age 1 of 3						
1. Component ID S/N: BS-	08611	2. Code Class AS	ME Section III Class							
•	3. Item Description: Main Steam Safety Valve; Dresser - 6" 3707RAX-RT-25 1315 psig									
• *	4. N-5 Data Package Number: <u>n/a</u> 5. W.O. Number: <u>2757217</u>									
6. Original Construction Code Edition: 1974 Edition, Summer 1975 Addenda										
7. Original Installation Code										
	ntenance overhaul & testing oved purchased spare parts b			r spare valves or from						
9. ☐ ISI Flaw	oved purchased spare parts t	NDE Method of Flaw De								
_		Report Number:								
10. Evaluation of the suitabil	lity of this work as per the re	equirements of IWA - 4150) :							
No failure in the ASME	Section III boundary. The d	isc will be replaced with pr	reoxidized ASME SB	637 OR ASTM B637						
INCONEL X-750 materi	al to enhance performance.	The nozzle replacement is	to correct seat leakag	e and there was no						
structual failure.										
11. Repair/Replacement Wo	rk Organization: NWS Te	chnologies								
12. Replacement Items Cons			74 Edition Summer 19	975 Addenda						
13. Repair/Replacement Acti	ivity Construction Code/Edit	tion: Sec. III Cl 2, 1974 I	Edition 1975 Winter A	ddenda						
14. ASME Section XI Code/	Edition: 1992 Edition and	d 1992 Addenda								
15. Preservice Inspection Re	quired:	☐ YES 🖾 NO								
Initial Drng Date 3	29-2005 If required,	include a step in the W.O.	to perform Preservice	Inspection						
16. ASME Section XI Pressu	_	☐ YES ⊠ NO	-							
Initial Diag Date 3	-29-2005 If required,	include a step in the W.O.	for ISI & ANII Inspe	ction.						
Initial Der Date 3		a step in the W.O. to com	plete NIS-2 Form pric	or to releasing the						
Initial Derg Date 3.	-39-285 18. Include replacemen	a step in the W.O. to reco t items.	rd below all applicabl	e numbers for repaired or						
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.						
DISC	Apn# 00064290	ADG51	N/A	MR# 943938						
Nozzle	Apn# 45070022	ABC41	93261	PO# 609862						
		·								
· · · · · · · · · · · · · · · · · · ·										
D Out	12 Old 2 22	g-4.5	<u> </u>							
19. PlannerSignature	100KM 3-29,	Printed Name:	David Goodlet							
^			<i>8</i> 0	1 ~~						
20. ISI PRINCOS	- 3-31-	Printed Name:	N. F. Indap	Log Entry FORT						
a. /.			•							
21. ANII Signature	-(-2-c	Printed Name:	R.G. HOGSTRO	<u> </u>						
C 7										

	ASME SECTION	N XI – REPAIR / REP	LACEMENT	
		· 	Pa	ge 2 of 3
1. Component ID S/N: B	S-08569	2. Code Class A	ASME Section III Class:	2
3. Item Description: Main	Steam Safety Valve; Dres	ser - 6" 3707RAX-RT-25	1250 psig	
4. N-5 Data Package Numb	per: <u>n/a</u> .	5. W.O. Number:	<u>2757217</u>	
6. Original Construction C	ode Edition: 1974 Editio	n, Summer 1975 Addenda		
7. Original Installation Co.	de Edition: 1974 Edition,	Winter 1975 Addenda		
<u>-</u>		ing of spare valve. Code part		r spare valves or from
	proved purchased spare par	rts based upon inspection res		
9. 🔲 ISI Flaw		NDE Method of Flaw D	Detection:	
and the second second		Report Number:	-0	
•		e requirements of IWA - 415		
No failure in the ASMI	E Section III boundary. Th	e spindle replacement is to	correct normal wear, the	ere was no structual
failure.				
		•		
		•		
11. Repair/Replacement W	ork Organization: NWS	Technologies	•	
12. Replacement Items Co.	nstruction or reconciled Co	de/Edition: Sec. III Cl 2, 1	974 Edition Summer 19	975 Addenda
13. Repair/Replacement A	ctivity Construction Code/I	Edition: Sec. III Cl 2, 1974	Edition 1975 Winter A	ddenda .
14. ASME Section XI Cod	e/Edition: 1992 Edition	and 1992 Addenda		
15. Preservice Inspection F	Required:	☐ YES ⊠ NO		
Marca D.	179.7055 v	1		•
Initial _ mg_ Date 3	•	red, include a step in the W.C		Inspection
16. ASME Section XI Pres	sure Test Required:	☐ YES ☒ No	0	
Initial Prof Date	7-29-2005 If requir	ed, include a step in the W.C	D. for ISI & ANII Inspec	ction. ,
		ude a step in the W.O. to con	mplete NIS-2 Form prio	or to releasing the
Initial Date 3	compone			
Initial Pung Date 3		ude a step in the W.O. to rec	ord below all applicable	e numbers for repaired or
Initial Date	replacen	nent items.		
. Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
	A# 455C0003	(000550.1)	7774	ND# 652400
Spindle	Apn# 45560003	6008552-1	N/A	MR# 653408
				
<u>· · · ·</u>				
	<u> </u>		<u> </u>	
19. Planner On 2	1 200 3.3	9-02	. David Candlet	
19. Planner Signature	17 AAHIN DA	9-05 Printed Name	: David Goodlet	
			20-	
20. ISI THE MODE	P = 3/31/6	Printed Name	R.P. INDAP	Long Entry-9787
Signature	!	Date		. 0 1
21. ANII 74 47	4-	2-05 Printed Name	. R.G. HOUSTROP	1
Signature Signature		Date Printed Name		
PV-E0093 Ver. 7				73DP-9ZZ17

	ASME SECTION	XI – REPAIR / REP		2 Z
10 001 00	20504			ge_3_of_3
 Component ID <u>S/N: BS-</u> Item Description: <u>Main S</u> 		·	SME Section III Class:	<u>4</u>
4. N-5 Data Package Number		5. W.O. Number:		
6. Original Construction Co			<u> ZIJIZII</u>	
7. Original Installation Code				
8. Work Description: Mai			replacement from other	spare valves or from
	oved purchased spare parts			
9. 🔲 ISI Flaw	•	NDE Method of Flaw D	etection:	
10 Evaluation of the switch:	Lian againin noadh an mar aba a	Report Number:		
10. Evaluation of the suitabi	•	•		
	Section III boundary. The			
	al to enhance performance.	The spindle replacement i	s to correct normal we:	ar, there was no
structual failure.				
11. Repair/Replacement Wo	rk Organization: NWS Te	echnologies		
12. Replacement Items Cons	-	-	974 Edition Summer 19	75 Addenda
13. Repair/Replacement Act		***		
14. ASME Section XI Code/	•	nd 1992 Addenda		
15. Preservice Inspection Re	quired:	☐ YES ⊠ NO		
Initial	-39-2005 Tempuland	include a stan in the VV C	tafama Danasadaa	Y
16. ASME Section XI Pressu		, include a step in the W.O		Inspection
	•			•:
Initial Date 3	24-205 Il required	, include a step in the W.O	-	
Initial Day Date 3	17. Includ component	le a step in the W.O. to con	nplete NIS-2 Form prior	r to releasing the
Initial Day Date 3. Initial Day Date 3. Initial Day Date 3.	18. Includ replacement	e a step in the W.O. to recont items.	ord below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
DISC	Apn# 00064290	ADG52	N/A	MR# 943938
Spindle	Apn# 45560003	6008552-2	N/A	MR# 653408
				·
<u> </u>				
				<u> </u>
19. Planner Bignature		-2005 Printed Name:	David Goodlet	
		•		1
20. ISI Signature	4-4-	Printed Name:	K. P. INDAF	> Log Snitry-RP
,				•
21. ANII 74 Liter		Printed Name:	RG HOGSTRO	ч
Signature	D	Pate		

تنصب سيد				المستخدم المستحد			فيستحي والمتناون
1. Owner: Arizo	na Public Service	Company, et. al.		Da	ate: <u>3/29/200</u>	5	
<u>P. O. J</u>	Box 53999, Phoeni	x Arizona 85072-	-2034	Sh	eet: <u>1</u> of	2	
2. Plant: Palo V	Verde Nuclear Gen	erating Station		Ur	Unit: 2		
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 W	ork Order Nur	mber <u>2757217</u>	
3. Work Performe	ed by: NWS Techno	logies	-	Ту	pe of Code St	amp <u>None</u>	
				Au	thorization No	o. <u>N/A</u>	
				Ex	piration Date	<u>N/A</u>	
4. Identification o	of System: <u>SG - Mai</u>	in Steam			•		
5. (a) Applicable	Construction Code A	ASME Section III N	NC, Class 2	<u>1974</u> Edition, <u>S</u>	ummer 1975	Addenda,(Code Case
(b) Applicable	Edition of Section >	র্ম Utilized for Repa	airs or Replace	ments: <u>1992 F</u>	Edition, 1992	Addenda	
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificatio	Year Built	Repaired or Replacement	ASME Code Stamped
·`							(Yes or NO)
Disc	Dresser	ADG51	n/a	BS-08611	2005	Replacement	МО
Nozzle	Dresser	ABC41	n/a	BS-08611	2005	Replacement	МО
Disc	Dresser	ADG52	n/a	BS-08586	2005	Replacement	МО
Spindle	Dresser	6008552-2	n/a	BS-08586	2005	Replacement	NO
Spindle	Dresser	6008552-1	n/a	BS-08569	2005	Replacement	NO
		,					-
7. Description of V	Work: Overhaul an	nd testing of three	spare Main S	Steam Safety	valves		
8. Test Conducted:	: Hydrostatic	Pneumatic	☐ Nomi	nal Operating I	Pressure 🗌	Exempt 🛛	
N-4	116-2 Other	Pressure p	osi	T	est Temperatu	re °F	
			•				
inches, (2) info	emental sheets in formation in items 1 of sheets is record	thru 6 on this rep	ort is include	-	_		

 Remarks: Work Order #2757217 for off-site disassembly, r s/n BS-08611, BS-08586 & BS-08569. 	econditioning and testing of spare Main Steam Safety valves,					
Pre-Pressure Test W.O. Review: ISI						
ANIIN/A						
Certificate of	of Compliance					
We certify that the statements made in the report are ASME Code, Section XI.	correct and this repair conforms to the rules of the					
Type Code Symbol StampN/A						
Certificate of Authorization No. N/A	Expiration Date: N/A					
Signed: Refolio Consulting Metallo Owner or Owner's Designee, Title	mical Engineer Date: 4-4-2005					
·						
CERTIFICATE OF IN	SERVICE INSPECTION					
Inspectors and the State or Province of <u>Arizona</u> and e inspected the components described in this Owner's to, and state that to the best	the d by the National Board of boiler and Pressure Vessel employed by HSB CT of Hartford, Connecticut, have report during the period of 4-2-05 tof my knowledge and belief, the Owner has performed ibed in this Owner's Report in accordance with the					
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions: NB 9685 "N" "I" AZ264						
Inspectors Signature	National Board, State, Province, and Endorsements					
Date: 4-5-05						
1						

•	ASME SECTION 2	KI – REPAIR / REPI	LACEMENT	•
		·	. Pa	ge (of \
1. Component ID 2JSIAUV	0673		•	
2 Item Description: A Train	n Suction Valve from Conta	inment Recirc Sump	•	
3. N-5 Data Package Number	: <u>2SI01-7</u>	4. W.O. Number:	<u>2767634</u>	
5. Original Construction Cod	le Edition: 1974 Edition, V	Winter 1975 Addenda		
6. Original Installation Code	Edition: 1974 Edition, W	inter 1975 Addenda		
7. Work Description: Repl	ace the gasket retainer bolts	per EDC 2005-00031.		
8. ISI Flaw		NDE Method of Flaw D	etection:	
		Report Number:		
9. Evaluation of the suitabilit BOLTS FRACTURE The bolts are being replace	y of this work as per the received Due 70 STRESS of ced as precautionary measures.	quirements of IWA - 4150 Co Rosion CRACE e with more SCC resistan	ر (۵۵۵) . لما t material (410 Vs 17-4	4-23 -as ⁻ PH)
•	78 4-23-05			
10. Repair/Replacement Wor	k Organization: Arizona F	Public Service	•	
11. Replacement Items Const	truction or reconciled Code/	Edition: Sec. III Cl 2, 19	974 Edition 1975 Winte	er Addenda
12. Repair/Replacement Acti	vity Construction Code/Edi	tion: Sec. III Cl 2, 1974	Edition 1975 Winter A	ddenda .
13. ASME Section XI Code/	Edition: 1992 Edition and	d 1992 Addenda		
14. Preservice Inspection Rec	quired:	☐ YES 🖾 NO		•
Initial Jo Date 2-	34-05 If required,	include a step in the W.O	to norform Procorriso	Increation
				nispection
15. ASME Section XI Pressu		☐ YES		.•
Initial J.D Date 3	34-05 If required,	include a step in the W.O	of the term of the following in the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term of the term o	tion.
Initial J.o. Date 3		e a step in the W.O. to con	nplete NIS-2 Form prio	r to releasing the
Initial Jo Date 3	17. Include replacemen	e a step in the W.O. to recent items.	ord below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Bonnet retainer bolts	APN 00090043	N JA	N1412	MR 959192
		<u> </u>		
<u> </u>				
			 	
·				
	·	•	•	
			<u> </u>	
18. Planner	Je- 3-14.	Printed Name:	James I. Davis	
Signature	D	ate		
19. ISI Signature	$\frac{2}{2}$ $\frac{3}{2}$ $\frac{1}{2}$	Printed Name:	R.P. Indap	Log Estry-FR
- /	V			
20. ANII	3-24-	os Printed Name:	R.G. HOUSTRO	»M
DIETIGLATO.				

PV-E0093 Ver. 7

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

As Required by the Provisions of the ASME Code Section XI

1. Owner: Arizona Public Service Company, et. al. Date: 4-23-05									
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	2034	Sheet	:: <u>1</u> of	<u>2</u>			
2. Plant: Palo V	erde Nuclear Gen	erating Station		Unit:	<u>2</u>				
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 Worl	Order Nun	nber <u>2767634</u>			
3. Work Performed by: Arizona Public Service Type of Code Stamp None									
				Autho	orization No	o. <u>N/A</u>			
				Expir	ation Date	<u>N/A</u>			
4. Identification o	f System: Safety In	<u>jection</u>		,					
5. (a) Applicable	Construction Code 2	ASME Section III N	IC, Class 2	1974 Edition, Wir	nter 1975 A	ddenda, Co	ode Case		
(b) Applicable	Edition of Section 3	(I Utilized for Repa	airs or Replace	ments: 1992 Edi	ition, 1992	Addenda			
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Components					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)		
Valve	Posi -Seal	143383A	N/A	2JSIAUV0673	1979	Repaired .	YES		
Gasket retainer bolts	N/A	HT# N1412	N/A	2JSIAUV0673	2005	Replacement	МО		
			•						
7. Description of V	Vork: Replace the	gasket retainer b	olting as requ	ired per EDC 20	005-00031				
8. Test Conducted	: Hydrostatic	Pneumatic	☐ Nomi	inal Operating Pre	essure 🗌	Exempt 🛛	i		
N-4	16-2 Other	Pressure I	osi	Test	Temperatu	re °F	•		
							i		
inches, (2) info	rmation in items 1	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.							

	FORM NIS-2 (Back)
9.	Remarks: Work Order 2767634 replaced the original 410 Stainless steel gasket retainer bolts with more corrosion resistant SA564, Gr 630 bolts per EDC 2005-00031 and DMWO 2760330.
Pro	e-Pressured Test WO Review – ISI
	ANII NA
Ī	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.
1	Type Code Symbol StampN/A
	Certificate of Authorization No. N/A Expiration Date: N/A
	Signed: Juffort SR. ISI ENGINEER Date: 4/23/05 Owner or Owner's Designee, Title
. . [CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 3-24-05 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.
ı	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
I	Date: 4-23-05

18. Planner James I. Davis Signature Date Printed Name: James I. Davis		ASME SECTION	XI - REPAIR / REP	LACEMENT	
2. Item Description: B Train Suzitic, Valve from Zontainment Recirc Sumn 3. N.5 Data Package Number: 28101-1 3. N.5 Data Package Number: 28101-1 5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace the gasket retainer bolts per EDC 2005-00031 8.		W 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10		Pa	geof
13. N.5 Data Package Number: 2810.1-2 3. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace the gasket retainer bolts per EDC 2005-00031. NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17-4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement lems Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial P.D. Date 3-1/05 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial P.D. Date 3-1/05 If required, include a step in the W.O. for ISI & ANII Inspection. Initial P.D. Date 3-1/05 If required, include a step in the W.O. to record below all applicable numbers for replacement items. Initial P.D. Date 3-1/05 If required, include a step in the W.O. to record below all applicable numbers for replacement items. Initial P.D. Date 3-1/05 Date 3-1/05 Printed Name: James L Davis Item ID Part No. Serial No. Heat No. MR/PO/WO No. No. No. No. No. No. No. No. No. No.	1. Component ID 2JSIBUV	7067.5			
5. Original Construction Code Edition: 1974 Edition, Winter 1975 Addenda 6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace the gasket retainer boths per EDC 2005-00031. 8. ☐ ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17-4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: ☐ YES ☐ NO Initial ☐ Date 3 ☐ If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: ☐ YES ☐ NO If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner ☐ Part No. ☐ Serial No. ☐ Heat No. ☐ MR/PO/WO No. Bonnet retainer bolts ☐ APN 00090043 ☐ NJ/A ☐ NI 141 Z ☐ MR 959197 19. ISI ☐ Signature ☐ Date ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Printed Name: ☐ Prin	2 Item Description: B Tra	in Suctic a Valve from Cont			
6. Original Installation Code Edition: 1974 Edition, Winter 1975 Addenda 7. Work Description: Replace the gasket retainer bolts per EDC 2005-00031. 8. □ ISI Flaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17-4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: □ YES □ NO Initial □ □ Date 3 → 05 □ If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: □ YES □ NO Initial □ Date 3 → 05 □ If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner □ Date 3 → 05 □ Date □ 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 19. ISI □ Date □ 17. □ Date □ 18. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ Date □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 19. □ 1	-			<u>2767648</u>	
7. Work Description: Replace the pasket retainer bolts per EDC 2005-00031. NDE Method of Flaw Detection: Report Number: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17-4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial J.D. Date 3 NOS If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial J.D. Date 3 NOS If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for replacement items. 18. Planner Signature APN 00090043 N/A N1412 MR 959197 19. ISI Part No. Serial No. Heat No. MR/PO/WO No. Signature Bate Signature Part Signature Part No. Printed Name: R.G. Hockstrom 3 - 24 - 05 Printed Name: R.G. Hockstrom Signature Part No. Serial No. Printed Name: R.G. Hockstrom 3 - 24 - 05 Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom 19. ISI Planner Signature Part No. Printed Name: R.G. Hockstrom 3 - 24 - 05 Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom 3 - 24 - 05 Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom 3 - 24 - 05 Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Hockstrom Signature Part No. Printed Name: R.G. Ho					
8. SISIFlaw NDE Method of Flaw Detection: Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17-4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Pobate Sylos If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to record below all applicable numbers for replacement items. 17. Include a step in the W.O. to record below all applicable numbers for replacement items. 18. Planner Signature Date 3-24-05 Printed Name: P. Indah Name: P. Japan Log Entry PB 19. ISI Signature 3-24-05 Printed Name: R.C. Heastron Signature 3-24-05 Printed Name: R.C. Heastron Signature Pobate Printed Name: R.C. Heastron	_	 			
Report Number: 9. Evaluation of the suitability of this work as per the requirements of IWA - 4150: The bolts are being replaced as precautionary measure with more SCC resistant material (410 Vs 17.4 PH) 10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III C12, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required:		place the gasket retainer boll		ata ati am	
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11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial P. Date 3-105 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial Date 3-105 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items. 18. Planner Signature Date 3-105 Printed Name: James I. Davis 19. ISI Planner Signature Date 3-205 Printed Name: R.C. Hoostrom 3-24-05 Printed Name: R.C. Hoostrom 19. ISI 3-24-05 Printed Name: R.C. Hoostrom 19. ISI 3-24-05 Printed Name: R.C. Hoostrom 10. ANII 3-24-05 Printed Name: R.C. Hoostrom 10. ANII 3-24-05 Printed Name: R.C. Hoostrom	The bond are being repre	productionary mouse	are with more does registering	inatorial (110 vo 17)	
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18. Planner Signature 19. ISI Printed Name: James I. Davis 19. ISI Printed Name: P. TNDAP Log Entry-PB Signature 3-24-05 Printed Name: R.G. Hoggery PB J. ANII Black Signature Date Printed Name: R.G. Hoggery PB	Item ID				MR/PO/WO No.
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1. Owner: Arizo	na Public Service	Company, et. al.		Dat	e: <u>4-29-0</u> 5			
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	2034	She	et: <u>1</u> of	<u>2</u>		
2. Plant: Palo Verde Nuclear Generating Station Unit: 2					t: <u>2</u>			
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 8535	54-7529 Wo	rk Order Nur	nber <u>2767648</u>		
3. Work Performe	d by: <u>Arizona Publi</u>	Service ·		Typ	e of Code St	amp <u>None</u>		
	-			Aut	horization No	o. <u>N/A</u>		
	•			Exp	iration Date	<u>N/A</u>		
4. Identification o	f System: Safety In	<u>jection</u>						
5. (a) Applicable	Construction Code A	ASME Section III N	VC, Class 2	1974 Edition, <u>W</u>	<u>inter 1975</u> A	ddenda, Co	ode Case	
(b) Applicable	Edition of Section >	(I Utilized for Repa	airs or Replace	ments: <u>1992 E</u>	dition, 1992	Addenda	•	
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Components				
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)	
Valve	Posi -Seal	143383B	N/A	2JSIBUV067	1979	Repaired	YES	
Gasket retainer bolts	N/A	HT# N1412	N/A	2JSIBUV0675	2005	Replacement	NO	
7. Description of V	Vork: Replace the	gasket retainer b	olting as requ	ired per EDC	2005-00034			
8. Test Conducted:	Hydrostatic	Pneumatic	☐ Nomi	nal Operating P	ressure 🗌	Exempt 🛛		
N-4	N-416-2 Other Pressure psi Test Temperature F							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

	FORM NIS-2 (Back)
	Remarks: Work Order 2767648 replaced the original 410 Stainless steel gasket retainer bolts with more corrosion resistant SA564, Gr 630 bolts per EDC 2005-00034 and DMWO 2760330.
Pr	e-Pressured Test WO Review – ISI
	ANII
	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.
1	Type Code Symbol StampN/A
1	Certificate of Authorization NoN/A Expiration Date:N/A
	Signed: Alan Morrow 5- ISI Engineer Date: 4-29-05 Owner or Owner's Designee, Title
l	
L	
ī	
ĺ	CERTIFICATE OF INSERVICE INSPECTION
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of <u>Arizona</u> and employed by <u>HSB CT</u> of <u>Hartford, Connecticut</u> , have inspected the components described in this Owner's report during the period of <u>3-24-05</u> to <u>4-24-05</u> , and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
ı	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
	Commissions: NB 9685 "N" "I" AZ264 Inspectors Signature National Board, State, Province, and Endorsements
1	Date: 4-29-05

ASME SECTION XI – REPAIR / REPLACEMENT								
	<u> </u>	·····	Pag	e of				
 Component ID 2JSIAUVO Item Description: HPSI H N-5 Data Package Number: Original Construction Code Original Installation Code Work Description: REW ISI Flaw Evaluation of the suitability Work is the pressure 	IEADER A TO RC LOOP 1 2S109-2 e Edition: 1974 Edition, Windows 1974 Edition, Windows VALVE SEATING A	4. W.O. Number: 2 Vinter 1975 Addenda nter 1975 Addenda REA TO ELIMINATE LE NDE Method of Flaw Det Report Number:	AK THROUGH ection:	uc Ast	1E			
10. Repair/Replacement Work Organization: Arizona Public Service 11. Replacement Items Construction or reconciled Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 12. Repair/Replacement Activity Construction Code/Edition: Sec. III Cl 2, 1974 Edition 1975 Winter Addenda 13. ASME Section XI Code/Edition: 1992 Edition and 1992 Addenda 14. Preservice Inspection Required: YES NO Initial Ho Date 4/7/05 If required, include a step in the W.O. to perform Preservice Inspection 15. ASME Section XI Pressure Test Required: YES NO Initial Ho Date 4/7/05 If required, include a step in the W.O. for ISI & ANII Inspection. 16. Include a step in the W.O. to complete NIS-2 Form prior to releasing the component. 17. Include a step in the W.O. to record below all applicable numbers for repaired or replacement items.								
Item ID	Part No.	Serial No.	Heat No.	MR/PO	/WO No.			
	i i							
				+				
19. ISI Signature 20. ANII Signature	Da 4/11/Da	Printed Name:	G. OSMUNDA R.P. INDAF RC HOGSTROM	Log Entr	·			
PV216-08NI (8-88)					73DP-9ZZ17 Rev 9			

								
FORM	I NIS-2 OWN As Requ	ER'S REPO					`	TS
1. Owner: Arizon	na Public Service (Company, et. al.			Date:	05/13/05		
<u>P. O. F</u>	30x 53999, Phoeni	x Arizona 85072-	2034		Sheet:	<u>1</u> of	2	1
2. Plant: Palo V	erde Nuclear Gen	erating Station			Unit:	<u>2</u>		
5801 S	outh Wintersburg	Road., Tonopah,	Arizona 853	54-7529	Work	Order Nun	nber 2770722	
3. Work Performe	d by: <u>Arizona Publi</u>	Service Co.			Туре	of Code St	amp <u>None</u>	
	5801 S. Winter	sburg Rd., Tonopa	h, Arizona, 85	354-7529	Autho	rization No	o. <u>N/A</u>	
			•		Expira	ition Date	<u>N/A</u>	
4. Identification of	f System: SP				 	<u></u>		
5. (a) Applicable	Construction Code			1974 Editic	on, Add	enda, Code	e Case	
(b) Applicable	Edition of Section 3	KI Utilized for Repa	airs or Replace	ments: <u>19</u>	92 Edit	ion, 1992	Addenda	
6. Identification of	Components Repai	red or Replaced and	d Replacement	Componer	nts	•		
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Othe Identific	-	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
HPSI Globe Valve	Borg Warner	51731	N/A	2JSIAUV	0637	1979	Repaired	Yes
	•							
•						 		
	·					•		
-	Vork: Seat repair a	•	Seal Weld Nominal O	perating Pro	essure	☐ Ex	empt 🛛 N-4	16-2 🔲
		ure psi					re °F	

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

FORM N	NIS-2 (Back)
9. WO 2770722: Lapped valve seat and disc,ressembled valve an	d reinstalled bonnet seal weld.
Pre-Pressure Test W.O. Review: ISIN/A	
ANIIN/A	··
Certificate of	of Compliance
We certify that the statements made in the report are a ASME Code, Section XI.	correct and this repair conforms to the rules of the
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A	Expiration Date:N/A
Signed: Reford Consulting Metal	majed Engineer Date: 5/13/05
	
· ·	
CERTIFICATE OF IN	SERVICE INSPECTION
inspected the components described in this Owner's to 5-13-65, and state that to the best	and by the National Board of boiler and Pressure Vessel employed by HSB CT of Hartford, Connecticut, have report during the period of 4-11-05 t of my knowledge and belief, the Owner has performed itsed in this Owner's Report in accordance with the
concerning the examinations and corrective measures	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither manner for any personal injury or property damage or a spection.
Wallon & Huber Inspectors Signature	Commissions: National Board, State, Province, and Endorsements
Date: 5-13-05	

	ASME SECTION	XI - REPAIR / REPI	LACEMENT	
		·	Pa	age <u>(</u> of <u>(</u>
1. Component ID 2PSIEV1 2 Item Description: HPSI 3. N-5 Data Package Numbe 5. Original Construction Co 6. Original Installation Code 7. Work Description: Rep 8. ☐ ISI Flaw 9. Evaluation of the suitability Island This is not Routine M 10. Repair/Replacement Wo 11. Replacement Items Cons	Injection Header Containmer: 2RC01-3B de Edition: 1974 Edition, Verent Edition: 1974 Edition, Verent Header to correct leak lity of this work as per the result of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained of the contained	ent Penetration Check Valve 4. W.O. Number: Winter 1975 Addenda Vinter 1975 Addenda age past the seat NDE Method of Flaw De Report Number: equirements of IWA - 4150: f the ASME TO Correct Se	tection: A ressure Leakage	boundary.
12. Repair/Replacement Act	ivity Construction Code/Ed	lition: Sec. III Cl 2, 1974 I		
13. ASME Section XI Code.14. Preservice Inspection Re		nd 1992 Addenda ☐ YES ☒ NO		
Initial Date	If required	, include a step in the W.O.	to perform Preservice	: Inspection
15. ASME Section XI Press	ure Test Required:	☐ YES 🖾 NO		
Initial NA Date	If required	I, include a step in the W.O.	for ISI & ANII Inspec	ction.
Initial Date _4	16. Include componen	le a step in the W.O. to compt.	plete NIS-2 Form prio	or to releasing the
Initial J. Date 4	-22-05 17. Include replacement	le a step in the W.O. to reconnt items.	rd below all applicable	e numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
Disc and stud assembly	APN 45020876	7	N/A	MR 914209
<u> </u>				
	<u></u>			
		·	·	
18. Planner Signature		Printed Name: Date	ames I. Davis	
19. ISI Signature	Monow 4/2	22/05 Printed Name:	Alan Morro	Log Entry an
20. ANII ZI Latine Signal re		Printed Name:	RG HOGSTROM	
PV216-0EVL(E.EN)				

1. Owner: Arizo	na Public Service	Date	Date:						
<u>P.O.1</u>	Box 53999, Phoeni	x Arizona 85072-	-2034	Shee	Sheet: $\underline{1}$ of $\underline{2}$				
2. Plant: Palo V	Verde Nuclear Gen	erating Station		Unit	Unit: 2				
5801.5	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529 Wor	Work Order Number 2786797				
3. Work Performe	ed by: <u>Arizona Public</u>	Service	·	Туре	Type of Code Stamp None				
	Auth	Authorization No. N/A							
		Expi	ration Date	<u>N/A</u>					
4. Identification o	f System: Safety In	jection							
5. (a) Applicable	Construction Code A	ASME Section III N	NC, Class 2	1974 Edition, <u>Wi</u>	nter 1975 A	ddenda, Co	ode Case		
(b) Applicable	Edition of Section >	II Utilized for Repa	airs or Replace	ments: <u>1992 Ed</u>	ition, 1992	Addenda			
6. Identification o	f Components Repai	red or Replaced an	d Replacement	Components					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)		
Valve	Borg -Warner	51291	N/A	2PSIEV133	1979	Repaired	YES		
Disc/stud Assembly	Borg -Warner	7	N/A	2PSIEV133 200		Replacement	NO .		
	•				<u> </u>				
7. Description of V	Work: Replace the	valve disc to con	rect seat leaka	<u>ige</u>		· .			
8. Test Conducted	: Hydrostatic	☐ Pneumatic	☐ Nomi	nal Operating Pro	essure 🗌	Exempt 🛛			
N-4	116-2 Other	Pressure	osi	Tes	t Temperatu	ire °F			
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.									

	FORM NIS-2 (Back)	
9	. Remarks: Work Order 2786797 replaced the valve disc and stud assembly to correct leakage past the seat.	
_		
P	re-Pressured Test WO Review – ISI N/A	
	ANII N/A	
	Certificate of Compliance	
	We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.	
	Type Code Symbol StampN/A	Ì
	Certificate of Authorization No. <u>N/A</u> Expiration Date: <u>N/A</u>	
	Signed: RPIndap, Consultiva Motallurgical Engineer Date: 5/4/05 Owner or Owner's Designee, Title	
j	CERTIFICATE OF INSERVICE INSPECTION	
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-22-05 to 5-5-05, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	•
	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
	Commissions: NB 9685 "N" "I" AZ264 Inspectors Signature National Board, State, Province, and Endorsements	
	Date:	ı I

ASME SECTION XI – REPAIR / REPLACEMENT												
· ·			Page	of								
1. Component ID 2MRCEX	02			•								
2 Item Description: Reacto	r Coolant System Pressurize	<u>er</u>										
3. N-5 Data Package Number	2RC01-1A	4. W.O. Number: 2	<u>787285</u>									
5. Original Construction Cod	5. Original Construction Code Edition: 1971 Edition, Winter 1973 Addenda											
6. Original Installation Code	Edition: 1974 Edition, W	inter 1975 Addenda										
	ove failed presurizer heaters into the Pressurizer sleeve	S 2MRCEA10, 2MRCEB10	and 2MRCEB11. Insta	ıll Pressurizer sleeve								
8. ISI Flaw	· mily the 1 ressurizer sieeve.	NDE Method of Flaw Det	ection:									
		Report Number:										
9. Evaluation of the suitabilit	y of this work as per the rec	quirements of IWA - 4150:										
Electrical portion of the h	eaters have failed. No failu	re of the code boundry.										
1												
10. Repair/Replacement Wor	k Organization: Arizona I	Public Service										
11. Replacement Items Const	-		I Edition 1973 Winter	Addenda								
12. Repair/Replacement Acti												
13. ASME Section XI Code/I	<u>-</u>											
14. Preservice Inspection Rec	uired:	☐ · YES 🛛 NO										
InitialN/A Date	If required.	include a step in the W.O.	to perform Preservice Ir	aspection								
15. ASME Section XI Pressur	•	⊠ YES □ NO	p	.opuda.								
1///	<u> </u>		C TCT O- A NTTY T									
Initial Date 4	//2/05 If required,	include a step in the W.O.	for 151 & ANII Inspecti	on.								
InitialN/A Date		e a step in the W.O. to comp	olete NIS-2 Form prior t	o releasing the								
AntialIV/I Date	component	•										
InitialN/A Date		e a step in the W.O. to recor	d below all applicable n	numbers for repaired or								
	replacemen	it items.	·	·								
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.								
Shop fabricated Plug -	APN 00076370	N/A	9R0094-LAD	MR 00964548								
Heater sleeve RCEA10				•								
Shop fabricated Plug - Heater sleeve RCEB10	APN 00076370	N/A	9R0094-LAD	MR 00964548								
Shop fabricated Plug - Make	APN 00076370	N/A	9R0094-LAD	MR00964548								
Heater sleeve RCEB 10 11	1411 000/05/0	1771	JR0054 E115	1/11/100704570								
11/1/	4 1/2	/										
18. Planner Signature	her 4/12/	Printed Name: I	lerbert Green									
(D) 1		1										
19. ISI Signature		Printed Name:	_Ramakant Indap	Log Entry Company								
Signature	1 D	40.										

4-12-05

Date

Printed Name: __Robert Hogstrom

PV216-08NI (8-83)

Signature

20. ANII

1. Owner: Arizon	na Public Service (Company, et. al.			Date: <u>04/</u>	09/2005		بمهانت فسده الشناند
		x Arizona 85072-20)34		Sheet: <u>1</u> of <u>2</u>			
	erde Nuclear Gene		·		Unit: 2			
		Road., Tonopah. A	rizona 8535	A_7520	Work Order Number 2787285			
			120118 0555	14-1329				
3. Work Performe	d by: <u>Arizona Public</u>	<u> Service</u>			Type of Code Stamp · None			
					Authorization No. N/A			
Expiration							<u>A</u>	
4. Identification of	f System: Reactor (Coolant - RC - ASME	Section III,	Class 1	·			
5. (a) Applicable	Construction Code A	ASME Section III NB	, Class 1 1	971 Editio	n, <u>Winter I</u>	973 Adde	nda,Code	e Case
(b) Applicable	Edition of Section X	I Utilized for Repair	s or Replace	ments: <u>19</u>	92 Edition.	1992 Ad	denda	
6. Identification of	f Components Repai	red or Replaced and I	Replacement	Сотропе	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.		Other Identification		Repaired or Replacement	ASME Code Stamped (Yes or No)
Pressurizer	Combustion Engineering	79373	N/A	2MRCE	(02	1979	Repaired	YES
·								
······································								
	•							
		led presurizer heate essurizer sleeves IA			CEB10 ar	nd 2MRC	EB11. Install	
8. Test Conducted	: Hydrostatic	Pneumatic [] Nomi	inal Operat	ing Pressur		Exempt [
N-4	116-2 . Other	Pressure ps	· ·		Test Ten	nperature	of	
•								
inches, (2) info	ormation in items I	form of lists, sketch I thru 6 on this repo ded at the to of this	rt is include		-			

FORM	NIS-2	(Back)
-------------	-------	--------

9. Remarks: Work Order 2787285. Plug failed Pressurizer Heater Sleeves with shop fabricated plug disposition. Heaters 2MRCEA10, 2MRCEB10, & 2MRCEB11.	s per DFWO 2785731
Pre-Pressured Test WO Review - ISI RP hadap 5/4/05 ANII AT THE	
Certificate of Compliance	•
We certify that the statements made in the report are correct and this replacement conform ASME Code, Section XI.	s to the rules of the
Type Code Symbol StampN/A	
Certificate of Authorization No N/A Expiration Date:	<u> </u>
Certificate of Authorization No. N/A Expiration Date: Signed: Clan Monow ISI Engineer Date: Some Owner or Owner's Designee, Title	116/05
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of boiler a Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, inspected the components described in this Owner's report during the period of 4-2 to 5-16-05, and state that to the best of my knowledge and belief, the Overaminations and taken corrective measures described in this Owner's Report in accrequirements of the ASME Code, Section XI.	wner has performed
By signing this certificate, neither the Inspector nor his employer makes any warranty, ex concerning the examinations and corrective measures described in this Owner's report. F the Inspector nor his employer shall be liable in any manner for any personal injury or proloss of any kind arising from or connected with this inspection.	urthermore, neither operty damage or a
Inspectors Signature Commissions: 198 9083 N 1	- Party College

PV216-08NI (8-88)

1	ASME SECTION 2			•					
			' Pag	e l of l					
1. Component ID 2SG033H0	017 & 2SG036H011		. •						
2 Item Description: PIPE H	ANGERS								
3. N-5 Data Package Number:	2SG01-1A	4. W.O. Number:	<u> 2789760</u>						
5. Original Construction Code	e Edition: 1974 Edition,	Winter 1975 Addenda							
6. Original Installation Code	Edition: 1974 Edition, W	inter 1975 Addenda							
7. Work Description: Repair	ir Failed/Damaged Pipe Ha	ngers per DFWO 2788864	Disposition						
8. X ISI Flaw	-	NDE Method of Flaw De							
9. Evaluation of the suitability	y of this work as per the rec	uirements of IWA - 4150:	°5 -530						
The Failed	DIDE Supports	are being i	replaced wi	th a					
haller losis	pipe supports n as per l	NFWO 27888	364						
Deviet 223.9	in the per t	2/002	, -						
	•								
			•	•					
10. Repair/Replacement World	k Organization: Arizona I	Public Service							
11. Replacement Items Consti	ruction or reconciled Code/	Edition: Sec. III NF Cl 2	, 1974 Edition Winter 1	975 Addenda					
12. Repair/Replacement Activ	vity Construction Code/Edi	tion: Sec. III NF Cl 2, 19	74 Edition Winter 1975	Addenda					
13. ASME Section XI Code/E	- -								
14. Preservice Inspection Req		☐ YES 🖾 NO							
ART OF	4/211								
Initial Date	16/8 1/2/01 frequired,	include a step in the W.O.	to perform Preservice 1	nspection					
15. ASME Section XI Pressur	15. ASME Section XI Pressure Test Required: YES NO								
	· ·	include a step in the W.O.	for ISI & ANII Inspect	ion.					
Initial Krs Date 4/		-	_	•					
Initial K5 Date 4	16. Include	a step in the W.O. to com	plete NIS-2 Form prior	to releasing the					
	component.	•	•						
Initial Kos Date 4	//\$ //\$	a step in the W.O. to reco	rd below all applicable	numbers for repaired or	,				
Initial <u>65</u> Date <u>7</u>	replacemen	t items.							
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.					
	00090383	2005 - 18		968953					
		1	Jan I A. J		-				
2" ROD	00090366	H ces	HT=240151	965681	_				
		1							
BEAM ATTATCHMENT	magazou			968958					
DEMM MITTIUMIENI	00090384			100100	-				
					_				
	•	i	1	1					
					-				
i									
	,			<u> </u>	-				
18 Planner 16 0 N	Same - 41	Drinted Name	Karl V Savage		_				
18. Planner Signature	Sage 41	Printed Name:	Karl V. Savage		_				
18. Planner <u>ka Q</u> Signature) D	ate			_				
Signature V	Monow 4/2	ate		Log Entry om	_				
Signature	Monow 4/2	ate	Karl V. Savage Alan Morrow Ramekant Indap	Log Entry am	_				
Signature 19. ISI Olan N Signature	Monow 4/2	Printed Name:	Alan Morrou Ramakant Indap	Log Entry om					
Signature 19. ISI alan N	Nonow 4/2 Di	Printed Name:		Log Entry Om					

		يره والمساوات المساوات						
1. Owner: Arizo	na Public Service	Company, et. al.			Date:	04/15/20)5	
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	-2034		Sheet:	<u>1</u> of	<u>2</u>	
2. Plant: Palo V	erde Nuclear Gene	erating Station			Unit:	2		
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529	Work	Order Nur	nber 2789760	
3. Work Performe	ed by: Arizona Public	Service Co.			Туре с	of Code St	amp <u>None</u>	·
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 85	354-7529	Author	rization No	o. <u>N/A</u>	
Expiration Date N/A								
4. Identification o	f System: SG							
5. (a) Applicable	Construction Code 2	ASME Section III N	NF, Class 2	1974 Edition	, Wint	er 1975 A	ddenda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section >	(I Utilized for Repa	airs or Replace	ments: <u>199</u>	2 Edit	ion, 1992	Addenda	•
6. Identification of	f Components Repai	red or Replaced an	d Replacement	Component	es .		. ·	
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica		Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)
Pipe Support	Pullman Power	2SG033H017	N/A	2SG033H01	17	1979	Repaired	Yes
Pipe Support	Pullman Power	2SG036H011	N/A	2SG036H01	11	1979	Repaired	Yes
Welded Beam Attachment	Anvil	2005-18	N/A	2SG036H0	011	2005	Replacement	Yes
Welded Beam Attachment	Anvil	2005-19	N/A	2SG036H0	011	2005	Replacement	Yes
Welded Beam Attachment	Anvil	- N/A	N/A	2SG033H	017	2005	Replacement	No
				· · · · · · · · · · · · · · · · · · ·				· · · · · · · · · · · · · · · · · · ·
						:		
7. Description of \	Work: Rework Pipe	Support 2-SG-033	-H017 and 2-S	G-036-H01	per D	FWO 278	<u>8864</u>	
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal O	perating Pres	sure [Exc	empt 🛛 N-4	16-2 🔲
Oth	ner Press	ure psi			Test	Гетрегаtu	re °F	
NOTE: Suppl	emental sheets in f	orm of lists, sketo	hes, or drawi	ings may be	used	provided	(1) size is 8 ½ 2	X 11

	FORM NIS-2 (Back)
9.	Remarks: Work Order 2789760 - Repaired Failed/Damaged Pipe Supports 2-SG-033-H-017 & 2-SG-036-H-011 per EDC# 2005-00277 - DFWO 2788864 Disposition.
<u>. </u>	
Pr	re-Pressured Test WO Review – ISI
	ANII N/A
	Certificate of Compliance We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp
	Certificate of Authorization No. N/A Expiration Date: N/A Signed: Alan Monor ISI Engineer Date: 5/10/05 Owner or Owner's Designee, Title

CERTIFICATE OF INS	SERVICE INSPECTION
Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	d by the National Board of boiler and Pressure Vessel mployed by HSB CT of Hartford, Connecticut, have report during the period of27-05 of my knowledge and belief, the Owner has performed bed in this Owner's Report in accordance with the
concerning the examinations and corrective measures	is employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature .	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date:	_

PV216-08NI (8-88) 73DP-9ZZ17 Rev 9

FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of

1. Manufa	ctured by			Rd. No.Kingstown, RI 02852	
		(DE.TH	e and address of NPT Certificate H	lodan	
2. Manufa	ctured forAriz	ona Public Service Co	p. Palo Verde 5801 South (name and accress of Purcheser)	Wintersburg Read Tonepals, A	Z 85354
			•		
i. Location	n of installationA	rizona Public Service	Co. Palo Verde 5801 Sou (name and sourese)	th Wintersburg Road Tonopal	. A7 R5354
. Type:	C.S.S.		DRS 66 REV	' q	2005
	C.S.S. (describs)		(Dasign Report of Lord Capers	ty Date Sheet)	2005 (yyar puin)
. ASME	Code, Section III, Division 1:	- 1974	* Winter 1975	. 2	N/A
		(eag(ct))	(accienda dala)	(cieca)	(Code Case no.
. Identifica	ation	•			
	(a)	(b)	(c.)	(d)	(e)
	Component Support	Material Specification	Conodian Registration	Applicable	National
	LD. No.	No.	No.	Drawings With Last Rev. & Date	Board No.
					110.
(1)	2005- 18	SA36	N/A	065-10025/F 3/20/00	N/A
(2)	2005- 19	SA36	N/A	066-10025/F 3/20/00	N/A
				000-1002011 0120100	IVA
(3)	2005- 20	SA36	N/A .	088-10025/F 3/Z0/00	N/A
· (4)	2005- 21	SA35	N/A	066-10025/F 3/20/00	N/A
(5)					
(6) —				• .	
			•		
(/) <u> </u>	:				
(8)					
	•				
(5)				•	
(10)					····
Remarks:					
	: * Corrected Docum	ent			
	lote: We further certify that th	e material "SA36" me	ets the requirements of Al	SME II 1992 Edition with the 1	993 Addenda
	The material "SA36" does no	t meet ASME III 1974	Edition, Winter 1975 Add	enda, required bend tests not	performed.
	PO#: 500285454				
	SO#: 41-69414	•		•	

"Supplemental information in the form of liats, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 1 through 4 on this bate Report is incruded on ozon sneet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(12/88)

This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300,

FORM NF-1 (Back - Pg. 2 of 2)

	• •	• • •			
	Compon	ent Support I.D. Nos.	2005-18	through	2005-21
	CERTI	FICATE OF DESIGN	.,—« <u></u>	·	
Design Specification certified by	H. R. Sonderegger	P.E. State	R.i.	Reg. no	3537
Design Report certified by	Frank J. Birch	P.E. State	R.I	Reg. no	4149
•		•			
•		· • • •			:
	CERTIFIC	ATE OF COMPLIANC	E		
•	•	:			•
Ve certify that the statements ma	de in this report are come	ct and that these co	omponent eur	porta conform	to the rules for
onstruction of the ASME Code, S	Section III. Division 1.				
IPT Certificate of Authorization No.	· N-2902	2 .	Expires	9/29	<i>1</i> 2007
•		• •			
ate 4-26-05 Nan	ne : Anvil International, Inc.	Signed	190	101	
	(NPT Certificate Holdon)		<i></i>		
		 			
•	•••				
	• • •	•	•		
	CEPTIEIC	ATE OF INSPECTION	<u> </u>		
• •	CERTITIO	ALE OF MOREONOM		•	
the undersigned, holding a valid	commission issued by the	National Board of E	Boiler and Pr	essura Vessel l	inspectors and
he State or Province of	Rhode Island	and emp	lcyed by	H.S.B	.C.T.
Harticrd.	C.T.	have inspected the co	mponent sup	ocits described i	n this Data Report
4/20/06 Hartford,		at to the best of my kr			•
instructed these component support	s in accordance, with the ASA	WE Code, Section III, I	Tivision 1.	•	
		•			
signing this certificate, neither the	ne inspector, nor his emplo	yer,makes any wan	anty, exprese	ed or implied.	concerning the
mponent supports described in th					
anner for any personal injury or p					
attice for any personal injury, or, p	בנים בי ול בענווונט עיבקטיי	, i, iiii iiii iiii iii ii			
			-		
Date 4/26/05 Signed	1411	ommissions RI	862 A	W	

•	ASME SECTION 2	XI – REPAIR / REPL	ACEMENT	
			. Pa	ge \ of \
1. Component ID 2SG045H	017 & 2SG042H011		•	
2 Item Description: PIPE I				
3. N-5 Data Package Number		4. W.O. Number: 2	<u>2790467</u>	
5. Original Construction Cod	<u>-</u>			
 6. Original Installation Code 7. Work Description: -Representation 			Diana sitian	
	A CET OF	NDE Method of Flaw Det		RLA
8. A ISI Flav	4(**	Report Number:	conon. V	4/27/05
9. Evaluation of the suitabilit	y of this work as per the req	•		
			replaced.	with a
heller design	ipe supports n as per L	FWO 27888	64	
Weller 2009	. 25 p	21000	, , , , , , , , , , , , , , , , , , ,	
	•	•		
10. Repair/Replacement Wor	k Organization: Arizona F	Public Service	•	
11. Replacement Items Cons		**	1974 Edition Winter	1975 Addenda
12. Repair/Replacement Acti				
13. ASME Section XI Code/		d 1992 Addenda	1-5	
14. Preservice Inspection Rec	quired:	1 1992 Addenda YES NO		
Initial Department of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of the Initial of	Heto Got If required,			Inspection
15. ASME Section XI Pressu	·	☐ YES ⊠ NO	io periormi i reservice	napeodon
		-	for ICI & ANIII Inches	tion .
Initial WS Date 4	11:4/04	include a step in the W.O.	-	•
Initial <u>KS</u> Date <u>4</u>	2/16 Include component.	a step in the W.O. to comp	olete NIS-2 Form prior	r to releasing the
			4 h -	
Initial Les Date 4	replacement	a step in the W.O. to recor titems.	d below all applicable	numbers for repaired of
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
2"THREADED ROD	00090366		240151	966340
ATTATCHMENT	00090383	2005-20		968956
Allaichteal	000 0000		·	1
· · · · · · · · · · · · · · · · · · ·				
				
•	,			
·····				-
				<u> </u>
18. Planner KR	Surgary 4/15	for nines	Carl V. Carrage	
Signature	Da		cari v. Savage	
<i>a</i> n a	Mad		Alan Morror	
19. ISI Signature	Da torion 91	27/05 Printed Name:	Ramakant Indap	Log Entry au
1			_	
20. ANII Ry type tone			Robert G. Hogstrom	
Signa(ure	Da			73DP-92217 Rev 9

1. Owner: Arizona Public Service Company, et. al. Date: 04/15/2005									
<u>P. O. I</u>	Box 53999, Phoeni	x Arizona 85072-	2034	Si	Sheet: <u>1</u> of <u>2</u>				
2. Plant: Palo V	erde Nuclear Gen	erating Station		บ	nit: 2				
<u>5801 S</u>	South Wintersburg	Road., Tonopah,	Arizona 853	54-7529 W	ork Order Nu	mber 2790467			
3. Work Performe	d by: <u>Arizona Publi</u>	Service Co.		T	pe of Code St	amp <u>None</u>			
	5801 S. Winter	sburg Rd., Tonopal	h, Arizona, 85	354-7529 A	uthorization N	o. <u>N/A</u>			
Expiration Date <u>N/A</u>									
4. Identification o	f System: SG								
5. (a) Applicable	Construction Code 2	ASME Section III N	VF, Class 2	1974 Edition,	Winter 1975 A	ddenda, <u>N/A</u> Cod	e Case		
(b) Applicable	Edition of Section >	(I Utilized for Repa	irs or Replace	ments: 1992	Edition, 1992	Addenda			
6. Identification o	f Components Repai	red or Replaced and	d Replacement	Components					
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identificati	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or NO)		
Pipe Support	Pullman Power	2SG045H017	N/A	2SG045H017	1979	Repaired	Yes		
Pipe Support	Pullman Power	2SG042H011	N/A	·2SG042H011	1979	Repaired	Yes		
Welded Beam Attachment	Anvil	2005-20	N/A	2SG042H01	2005	Replacement	Yes		
Welded Beam Attachment	Anvil	2005-21	N/A	2SG042H01	2005	Replacement	Yes		
		•							
						·			
7. Description of \	Work: Rework Pipe	Support 2-SG-045	-H017 and 2-S	G-042-H011	er DFWO 278	38864			
8. Test Conducted	: Hydrostatic 🗌	Pneumatic	Nominal Op	perating Pressu	ıre 🔲 Ex	empt 🛛 N-	116-2		
Oth	Other Pressure psi Test Temperature F								
	NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered								

9. W.O. 2790467 – Reworked pipe supports 2-SG-042-H011 and 2-SG-045-H017 per EDC# 2005-00280 – DFWO 2788864 disposition.

Certificate of Compliance						
We certify that the statements made in the the ASME Code, Section XI.	e report are correct	and this replacement confo	orms to the rules of			
Type Code Symbol Stamp	N/A	······				
Certificate of Authorization No.	N/A	Expiration Date: _	N/A			
Signed: Owner or Owner's De		Engineer Date:	5/10/05			

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and er inspected the components described in this Owner's reto, and state that to the best	the National Board of boiler and Pressure Vessel in ployed by HSB CT of Hartford, Connecticut, have eport during the period of 41-27-05 of my knowledge and belief, the Owner has performed ped in this Owner's Report in accordance with the
concerning the examinations and corrective measures	s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither nanner for any personal injury or property damage or a spection.
Inspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 5-11-05	•

PV-E0092 Ver. 7 Back 73DP-9ZZ17 Rev 8

PAGE 06/07

FORM NF-1 CERTIFICATE HOLDERS' DATA REPORT FOR COMPONENT SUPPORTS' As Required by the Provisions of the ASME Code, Section III, Division 1 Pg. 1 of 2

l. Manufac	tured by		al, Inc 160 Frenchtown I	Rd. No.Kingstown, RJ 02852	 	
2. Manufactured for Arizona Public Service Co. Paln Verde 5801 South Winteraburg Read Tonopats, AZ 85354						
			(name and address of Purchaser)			
. Location	of Installation	Arizona Public Service	Co. Palo Verde 5801 Sou (name and sadress)	th Wintersburg Road Tonopal	i, A7 85354	
. Type:	C.S.S. (describe)		DRS 65 REV	. 9	2005	
	(describe)		(Daston Report of Load Capers	ty Data Sheet)	(year suit)	
ASMEC	ode, Section III, Divi		* Winter 1975	2	N/A	
•		(eaged)	(eddenda dale)	(ciasa)	(Code Cass no.	
Identificat		л				
	(a) Component	(b) Materiel	(c.) Conodian	(d) Applicable	(e) National	
	Support	Specification	Registration	Drawings With	Board	
	I.D. No.	No.	No.	Last Rev. & Date	No.	
(1)	2005- 18	SEAZ	N/A	066-10025/F 3/20/00	N/A	
(2)	2005- 19	. SA36	N/A	066-10025/F 3/20/00	N/A_	
(3) <u> </u>	2005- 20	SA36	N/A	068-10025/F 3/20/00	N/A	
(4)	2005- 21	SA36	N/A	066-10025/F 3/20/00	N/A	
(5)		·	•			
(6)			·			
(n)					·	
(8)		·				
(9)	•		•			
(10)						
Remarks:	: * Corrected	d Document			 	
	Note: We further cert The material "SA36	ify that the material "SA36" me " does not meet ASME III 197	eets the requirements of A 4 Edition, Winter 1975 Add	SME II 1992 Edition with the denda, required bend tests no	1993 Addenda performed.	
	PO#: 500285454					
	SO#: 41-69414	·				

(12/89) This form (E00075) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fakrield, NJ 07007-2300,

PAGE 07/07

FORM NF-1 (Back - Pg. 2 of 2)

	· . Compon	ent Support I.D. Nos.	. 2005-18	through	2005-21
_	·	ent Cupport I.D. 1403.			2005-21
	CERTI	FICATE OF DESIGN	1 .		
Design Specification certified by	H. R. Sonderegger	P.E. State	R.I.	Reg. no	3537
Design Report certified by	Frank J. Birch	P.E. State	R.I	_ Reg. по	4149
·					
	· · · · · · · · · · · · · · · · · · ·		<u></u>		· · · · · · · · · · · · · · · · · · ·
-	CERTIFIC	ate of complian	CE		
We certify that the statements made construction of the ASME Code, Set		: ect and that these o	component cur	ports conform	the rules for
NPT Certificate of Authorization No.	· N-280	2	Expires	9/29/	2007
Date <u>4-26-05</u> Name	Anvil International, Inc. (NPT Certificate Holder)	. Signed (STC	74.	
	• •	• • • •			•
	CERTIFIC	ATE OF INSPECTIO	N		· •
I, the undersigned, helding a valid of the State or Province of	ommission įssued by mė Rhode Island		Boiler and Pr		•
of Hariford, C:		have inspected the c			
on 4/20/05		nat to the best of my			•
constructed these component supports				,	,
		, ,		•	
By signing this certificate, neither the component supports described in this manner for any personal injury or pro-	Data Report, Furthermo	ore, neither the insp	pector nor his	employer shall	be liable in any
Date 4/20/05 Signed	(Authorized Inspection)	-, -	11. Bd. (incl. endo	raements) and state	or prov. and no.)

	ASME SECTION 2	KI – REPAIR / REPL	••	
 Component ID 2CH147H Item Description: Pipe st N-5 Data Package Number Original Construction Code Original Installation Code Work Description: Repl ISI Flaw Evaluation of the suitability 	upport, 1/4 kip snubber r: 2PC01-1 de Edition: 1974 Edition, V Edition: 1974 Edition, W lace the snubber for precauti	inter 1975 Addenda onary measures. NDE Method of Flaw De Report Number: puirements of IWA - 4150:	790927 Zžes	geof
10. Repair/Replacement World 11. Replacement Items Cons 12. Repair/Replacement Action 13. ASME Section XI Code/	rk Organization: <u>Arizona I</u> struction or reconciled Code/ ivity Construction Code/Edi	Public Service Edition: Sec. III NF Cl 3 tion: Sec. III NF Cl 3, 19		
14. Preservice Inspection Re InitialDWS Date 15. ASME Section XI Pressu InitialDWS Date InitialDWS Date InitialDWS Date InitialDWS Date		a step in the W.O. to recor	for ISI & ANII Inspec olete NIS-2 Form prio	ction. or to releasing the
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
2CH147H009	APN 45350024	17973	N/A	MR 967163
18. Planner Signature 19. ISI Signature 20. ANII Signature PV210-05Ni (4 45)	1/100 4/18 D	ate .		
· · · · · · · · · · · · · · · · · · ·				73DP-9ZZ17 Rev 9

1. Owner: Arizona Public Service Company, et. al.				Date: 04/18/2005				
P. O. Box 53999, Phoenix Arizona 85072-2034					Sheet: <u>1</u> of <u>2</u>			
2. Plant: Palo Verde Nuclear Generating Station					Unit: 2			
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529					Work Ord	er Numbe	r <u>2790927</u>	
3. Work Performe	d by: Arizona Public	Service			Type of Code Stamp None			
					Authoriza	Authorization No. N/A		
					Expiration	Date N	<u>'A</u>	
4. Identification o	f System: <u>CH: Che</u>	mical and Volumn Co	ontrol System	<u>n</u>				
5. (a) Applicable	Construction Code 4	ASME Section III NF	Class 3	1974 Editio	on, <u>Winter 1</u>	<u>975</u> Adde	nda, Cod	e Case
(b) Applicable	Edition of Section 3	KI Utilized for Repair	s or Replace	ments: <u>19</u>	92 Edition	1992 Ac	ldenda	
6. Identification o	f Components Repai	red or Replaced and I	Replacement	Compone	nts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.		ther fication	Year Built	Repaired or Replacement	ASME Code Stamped (Yes or No)
1/4 Kip Snubber	PSA	17973	n/a	2CH147I	H009	1981	Replacement	YES
							·	
					-			
		· · · · · · · · · · · · · · · · · · ·						
-					· · · · · · · · · · · · · · · · · · ·			
7. Description of V	7. Description of Work: Replace snubber for precautionary reasons.							
8. Test Conducted	: Hydrostatic	Pneumatic [Nomi	inal Operat	ting Pressur	c □	Exempt 🗵	
N-4	N-416-2 Other Pressure psi Test Temperature fr							
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM NIS-2 (Back)					
9. Remarks: WO #2790927, Replace the snubber for precautionary reasons.					
Pre-Pressured Test WO Review – ISI	_ <i>N</i> /A				
ANII	N/A				
Certificate	e of Compliance				
We certify that the statements made in the report are ASME Code, Section XI.	correct and this replacement conforms to the rules of the				
Type Code Symbol StampN/A					
Certificate of Authorization NoN/A	Expiration Date:N/A				
Signed: Celan Monow	ISI Engueer Date: 4/22/05				
Owner or Owner's Designee, Title					
	•				
CERTIFICATE OF IN	SERVICE INSPECTION				
	ned by the National Board of boiler and Pressure Vessel				
inspected the components described in this Owner's	. — — — — — — — — — — — — — — — — — — —				
	est of my knowledge and belief, the Owner has performed bribed in this Owner's Report in accordance with the				
requirements of the ASME Code, Section XI.					
	his employer makes any warranty, expressed or implied,				
	es described in this Owner's report. Furthermore, neither manner for any personal injury or property damage or a inspection.				
21/4	O				
Inspectors Signature	Commissions: NB 9685 "N" "1" AZ264 National Board, State, Province, and Endorsements				
Date:4-22-05					

	ASMIE SECTION X	I – REPAIR / REPL	ACEMENT	
	<u></u>		Pa	ge \ of \
1. Component ID 2PRCELO 2 Item Description: Pressur 3. N-5 Data Package Number 5. Original Construction Code 6. Original Installation Code 7. Work Description: Perfo 8. ☐ ISI Flaw 9. Evaluation of the suitabilit No Failure of the Code B PREVENT A PEF 2 ED 0 10. Repair/Replacement Wor 11. Replacement Items Const 12. Repair/Replacement Acti	28/2JRCEFO0724 rizer Surge Line Sample Flor 2RC01-2 1974 le Edition: 1977 Edition, Wi 2 X 1 Build-up of existing y of this work as per the requested for the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of the surge of th	w Limiting Orifice 4. W.O. Number: 2 Vinter 1973 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter 1977 Addenda Inter	Pa 792023 5/4/05 ection: N/A 7ANGED 70 A770N- /26/05 4 Edition 1975 Winter	er Addenda
13. ASME Section XI Code/I				•
14. Preservice Inspection Rec	quired: [☐ YES 🗵 NO		
Initial NA Date 4/2	S/25 If required,	include a step in the W.O. t	o perform Preservice	Inspection
15. ASME Section XI Pressu	re Test Required:	☐ YES 🖾 NO		
Initial No Date 4	is If required,	include a step in the W.O. 1	for ISI & ANII Inspec	tion.
Initial 18 L Date 4		a step in the W.O. to comp	lete NIS-2 Form prior	r to releasing the
Initial 1/A Date 4/	17. Include replacement	a step in the W.O. to recorditems.	d below all applicable	numbers for repaired or
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.
		•		· .
•				
				
				·
			 	
		·		
18. Planner kal Signature 19. ISI Signature	10/	Printed Name: K	arl V. Savage	Com Log Entry
20. ANII Signulure	4-20 Da		RG HOGSTRO	
PY216-08NI (8-88)				73DP-9ZZ17 Rev 9

والمراجع والمتعارض والمراجع والمراجع والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض والمتعارض

FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS As Required by the Provisions of the ASME Code Section XI Date: 04/25/2005 1. Owner: Arizona Public Service Company, et. al. P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: 1 of 2 2. Plant: Palo Verde Nuclear Generating Station Unit: 2 5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2792023 3. Work Performed by: Arizona Public Service Co. Type of Code Stamp None 5801 S. Wintersburg Rd., Tonopah, Arizona, 85354-7529 Authorization No. N/A Expiration Date N/A 4. Identification of System: 2RC01-2 5. (a) Applicable Construction Code ASME Section III NB, Class 1 1974 Edition, Winter 1975 Addenda, N/A Code Case (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1992 Edition, 1992 Addenda 6. Identification of Components Repaired or Replaced and Replacement Components Manufacturer Name of Name of National Other Year Repaired or **ASME** Item Manufacture Serial No. Board No. Identification Built Replacement Code Stamped (Yes or NO) Pressurizer Surge Pullman Power 2RC028S004 N/A 2JRCEFO0724 1979 Repaired Yes Line **Products** 7. Description of Work: Performed 2 x 1 build -up of existing fillet welds on Pressurizer Surge sample line.

NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is $8 \frac{1}{2} \times 11$ inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.

Nominal Operating Pressure

Exempt 🛛

Test Temperature ____ °F

N-416-2 [

Pneumatic

Pressure ____ psi

8. Test Conducted: Hydrostatic

Other |

	FORM NIS-2 (Back)	
9 .	Remarks: Work Order 2792023, Performed 2X1 Build-up of Existing fillet welds on Pressurizer Surge Sample line Flow Limiting Orifice to minimize potential vibration induced failure.	
Pr	e-Pressured Test WO Review – ISI <u>*1/A</u>	
	ANII_N/A	
	Certificate of Compliance	
	We certify that the statements made in the report are correct and this repair conforms to the rules of the ASME Code, Section XI.	
	Type Code Symbol Stamp N/A	ł
	Certificate of Authorization No. N/A Expiration Date: N/A	ı
	Signed: Through Consulting Metallergical Engineer Date: 5/4/2005 Owner or Owner's Designee, Title	
ļ		! -
	CERTIFICATE OF INSERVICE INSPECTION	
	I, the undersigned, holding a valid commission issued by the National Board of boiler and Pressure Vessel Inspectors and the State or Province of Arizona and employed by HSB CT of Hartford, Connecticut, have inspected the components described in this Owner's report during the period of 4-26-05 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
	By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
	Commissions: NB 9685 "N" "I" AZ264 Inspectors Signature National Board, State, Province, and Endorsements	
	Date:	

ASME SECTION XI – REPAIR / REPLACEMENT					
·			- Pag	ge of	
8. SISIFlaw ISI Fla RPI 5/12/0 9. Evaluation of the suitabilit	ad vent line : 2RC01-1A le Edition: 1971 Edition, Edition: 1971 Edition, Wove axial indications utilizied #2793837. W - No	rinter 1973 Addenda ng a flapper wheel or other NDE Method of Flaw Der Report Number: quirements of IWA - 4150:	suitable method per the		
10. Repair/Replacement Wor 11. Replacement Items Const 12. Repair/Replacement Acti 13. ASME Section XI Code/I 14. Preservice Inspection Rec InitialDWS Date(15. ASME Section XI Pressur InitialDWS Date(InitialDWS Date(InitialDWS Date(InitialDWS Date(InitialDWS Date(InitialDWS Date(InitialDWS Date(InitialDWS Date(I	ruction or reconciled Code vity Construction Code/Edition: 1992 Edition and puired: 104/24/05 If required re Test Required: 104/24/05 If required required: 104/24/05 16. Included component 17. Included 17. Included 17. Included 17. Included 17. Included 17. Included 17. Included 17. Included 17. Included 18. Included 17. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Included 18. Include	/Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. III Cl 1, 1974 Edition: Sec. I	Per Alan Morrow to perform Preservice for ISI & ANII Inspec	ddenda 22.1 of 1998 Edifficul EPP 5/11/05 Inspection tion. to releasing the	
Item ID	Part No.	Serial No.	Heat No.	MR/PO/WO No.	
2MRCEX01	Head Vent line	79173	N/A	WO 2793841	
				<u> </u>	
18. Planner Oly Sle Signature 19. ISI <u>Clean N</u> Signature pan Telec	Morrow 4/2 con with	Date .	Alan Morro	Log Entry ac	
20. ANII Robert Signature	Hosstrom 4.	24/05 Printed Name:	Robert Hogs	trom	

PV216-08NI (8-88)

1. Owner: Arizona Public Service Company, et. al. Date: 02/24/2005								
P. O. Box 53999, Phoenix Arizona 85072-2034 Sheet: <u>1</u> of <u>2</u>								
2. Plant: Palo Verde Nuclear Generating Station					Unit: 2			
5801 South Wintersburg Road., Tonopah, Arizona 85354-7529 Work Order Number 2793841								
3. Work Performe	d by: Westinghouse	Electric Company			Type of Cod	e Star	mp <u>None</u>	
	20 Internations	al Drive			Authorization No. N/A			
	Windsor, Conr	necticut, 06095			Expiration D	ate]	<u>N/A</u>	·
4. Identification of	f System: RC - Rea	ector Coolant						
5. (a) Applicable	Construction Code A	ASME Section III N	IB, Class 1	1974 Edition	, Winter 197	5 Ad	denda, <u>N/A</u> Cod	e Case
(b) Applicable	Edition of Section X	II Utilized for Repa	irs or Replace	ments: <u>199</u>	2 Edition, 1	992_	Addenda	
6. Identification of	f Components Repai	red or Replaced and	d Replacement	Component	ts			
Name of Item	Name of Manufacture	Manufacturer Serial No.	National Board No.	Other Identifica			Repaired or Replacement	ASME Code Stamped (Yes or NO)
Reactor Vessel Head Vent	Combustion Engineering	· N/A ·	N/A	2MRCEX0	1 197	19	Repaired	Yes
•								
7. Description of Work: Repair axial indications on the inside of the Rx Head Vent line per DFWO 2793837 disposition.								
8. Test Conducted: Hydrostatic Pneumatic Nominal Operating Pressure Exempt N-416-2								
Oth	er Press	ure psi	•		Test Temp	eratur	re °F	
NOTE: Supplemental sheets in form of lists, sketches, or drawings may be used provided (1) size is 8 ½ X 11 inches, (2) information in items 1 thru 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the to of this form.								

FORM NIS-2 (

9. W.O. 2793841. Repair per DFWO 2793837 by reaming and flapper wheel, approximate depth of repair 36 MILS.

Nominal wall thickness prior to reaming and flapping 0.154". Minimum wall remaining following reaming and flapping 0.118". NDE/ET per ASME Section XI 1998 no Addenda, used with NRC approval letter dated 5-9-05.

Certificate of Compliance					
We certify that the statements made in t ASME Code, Section XI.	he report are correct	and this repair conforms to th	e rules of the		
Type Code Symbol Stamp	N/A				
Certificate of Authorization No.	N/A	Expiration Date:	N/A		
Signed: Than Owner or Owner's	Metallurgical Designee, Title	Engineer Date: 5-	12-2005		

CERTIFICATE OF INSERVICE INSPECTION

Inspectors and the State or Province of <u>Arizona</u> and en inspected the components described in this Owner's reto, and state that to the best	by the National Board of boiler and Pressure Vessel aployed by HSB CT of Hartford, Connecticut, have export during the period of 4-24-05 of my knowledge and belief, the Owner has performed sed in this Owner's Report in accordance with the
concerning the examinations and corrective measures	s employer makes any warranty, expressed or implied, described in this Owner's report. Furthermore, neither lanner for any personal injury or property damage or a pection.
nspectors Signature	Commissions: NB 9685 "N" "I" AZ264 National Board, State, Province, and Endorsements
Date: 5-12-08	_

PV-E0092 Ver. 7 Back 73DP-9ZZ17 Rev 8