

PALO VERDE NUCLEAR GENERATING STATION
UNIT 2 INSERVICE INSPECTION REPORT
THIRD REFUELING OUTAGE

ARIZONA PUBLIC SERVICE
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COMMERCIAL SERVICE DATE: 9/19/86

REPORT DATE: 2/13/92

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UNIT 2 INSERVICE INSPECTION REPORT

1.0 Introduction

This report is a summary of the examinations performed during the third Inservice Inspection (ISI) at Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This was the first ISI for Interval 1, Period 2 and was conducted during the third refueling outage which began October 15, 1991, and was completed January 2, 1992. Palo Verde Unit 2 began commercial operation on September 19, 1986.

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

1. ASME Section XI Class 1 and 2 pressure retaining components and their supports,
2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8, and
3. Augmented examinations of Class 2 Safety Injection piping systems in accordance with 10CFR50.55a.

This report is a compilation of the Period 1 refueling outages and the first outage in Period 2. All of the examination report numbers listed in Appendix A for the third refueling are numbered with 91-2XXX or 92-2XXX.

2.0 Examination Summary

The evaluation of the results from the ISI examinations indicated the integrity of the systems had been maintained. All discrepancies were corrected in accordance with PVNGS work control practices and ASME Section XI. The discrepant findings noted are listed in Section 7 (Repairs & Replacements).

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

3.0 Examination Techniques

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

VT-Visual	VT-1	General Condition
	VT-2	Leakage
	VT-3	Structural Condition
	VT-4	Operability
S-Surface	PT	Liquid Penetrant
	MT	Magnetic Particle
VOL-Volumetric	UT	Ultrasonic

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

4.0 Accessibility

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

5.0 Personnel

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

6.0 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.

7.0 Repairs and Replacements

The repairs and replacements performed as a result of the Inservice Examinations were as follows:

ZONE	ITEM ID	DISCREPANCY
59	59-13	Intermittent linear indications
60	60-5	Four linear indications
60	60-6	Linear indication
53	53-7	Linear indication
4	Steam Generator Manway Stud	Galled threads
51	51-28	Multiple linear indications
51	51-29	Two linear indications

The linear indications detected were removed by filing/grinding as per the requirement of each individual Material Nonconformance Report. Pipe thickness readings were taken in the areas where filing or grinding had taken place to verify that the required pipe thickness was maintained. The steam generator manway stud was replaced with a new stud.

The applicable records and reports for the specific repair or replacement are maintained on file at Palo Verde. A preservice examination was performed on the repaired or replaced items listed above.

APPENDIX A

INSERVICE INSPECTION
SUMMARY REPORT

APPENDIX A

Definition of terms

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

ASME Item No: The ASME Section XI Category/Item Numbers are listed in the Code, Subsections IWB and IWC. The item number prefixes are defined below:

AHE - Augmented high energy systems piping
B - ASME Class 1 systems
BFLYWH - Reactor coolant pump flywheels
BIWF - ASME Class 1 supports
C - ASME Class 2 systems
CIWF - ASME Class 2 supports
FR - 10 CFR 50 augmented examinations

Zone No: Area designation per PVNGS design

Comp/Sys: Component or system descriptor

Insp Per: Inspection period

Reqd: Number of items required to be completed in the period

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

ADV:	Atmospheric Dump Valve
Aux FW:	Auxiliary Feedwater
Atmos Dump:	Atmospheric Dump
Circ:	Circumferential
Cont:	Containment
CS:	Containment Spray
CSP:	Containment Spray Pump
FW:	Feedwater
HPSI:	High Pressure Safety Injection
Letdown HT Exch:	Letdown Heat Exchanger
LPSI:	Low Pressure Safety Injection
MS:	Main Steam
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. REDUC:	Snubber Reduction Program
UT:	Ultrasonic Testing

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE5.11 & AHE5.12	51	Bypass V180	Two	20	51-65	91-2423	91-2434		
					51-66	91-2424	91-2434		
					51-67	91-2449	91-2435		
					51-68	91-2450	91-2435		
					51-69	91-2451	91-2435		
					51-70	91-2452	91-2435		
					51-71	91-2453	91-2435		
					51-72	91-2454	91-2435		
					51-73	91-2455	91-2435		
					51-74	91-2456	91-2435		
					51-75	91-2457	91-2435		
					51-76	91-2458	91-2435		
					51-77	91-2425	91-2434		
					51-78	91-2426	91-2434		
					51-79	91-2427	91-2433		
					51-80	91-2428	91-2433		
					51-81	91-2429	91-2434		
					51-82	91-2430	91-2433		
					51-83	91-2431	91-2433		
					51-84	91-2432	91-2433		
	53	Steam to Aux FW	One	10	53-11	88-2125	88-2111		
					53-12	88-2122	88-2111		
					53-13		88-2111		No UT inaccess
					53-14	88-2124	88-2111		
					53-15	88-2123	88-2111		
					53-21	88-2128	88-2111		
					53-22	88-2129	88-2111		
					53-23	88-2127	88-2111		
					53-24	88-2126	88-2111		
					53-25	88-2130	88-2111		
			Two	9	53-1	91-2442	91-2439		
					53-2	91-2443	91-2439		
					53-4	91-2444	91-2439		
					53-5	91-2445	91-2439		
					53-6	91-2446	91-2439		
					53-7	91-2466	91-2462		Reject (surf)
							91-2528		Re-exam
					53-8	91-2478	91-2439		
					53-9	91-2467	91-2439		
					53-10	91-2468	91-2439		
AHE 5.21 & AHE5.22	47	MS SG1 270	One	12	47-1	88-2272	88-2112		CIRC UT
						88-2142			AXIAL UT
					47-2	88-2270	88-2112		
					47-4	88-2103	88-2112		
					47-8	88-2104	88-2058		
					47-12	88-2105	88-2058		
					47-16	88-2106	88-2058		
					47-20	88-2107	88-2058		
					47-24	88-2143	88-2112		
					47-25	88-2144	88-2112		
					47-28	88-2133	88-2058		

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.21 & AHE5.22	47	MS SG1 270	One	12	47-29	88-2134	88-2058		
					47-30	88-2271	88-2112		
	48	MS SG 1 90	Two	12	48-1	91-2309	91-2250		
							91-2251		
					48-2	91-2310	91-2249		
						91-2311	91-2251		
					48-4	91-2370	91-2251		
					48-8	91-2371	91-2251		
					48-12	91-2372	91-2251		
					48-16	91-2394	91-2250		
					48-20	91-2373	91-2250		
					48-24	91-2257	91-2248		
						91-2313			
					48-25	91-2256	91-2248		
					48-28	91-2472	91-2249		
					48-29	91-2473	91-2249		
					48-30	91-2259	91-2248		
	51	Atmos Dump SG 1	One	13	51-1	88-2093	88-2058		
					51-2	88-2241	88-2131		
					51-3	88-2242	88-2303		
					51-4	88-2243	88-2303		
					51-5	88-2248	88-2131		
					51-6	88-2244	88-2303		
					51-7	88-2245	88-2131		
					51-8A	88-2246	88-2131		
					51-8B	88-2247	88-2131		
					51-9	88-2249	88-2303		
					51-40	88-2250	88-2131		
					51-85	90-2302	90-2300		PSE/Block valve
					51-86	90-2303	90-2300		PSE/Block valve
					51-87	90-2304	90-2300		PSE/Block valve
					51-88	90-2305	90-2300		PSE/Block valve
			Two	15	51-26	91-2409	91-2388		
					51-27	91-2413	91-2388		
					51-28	91-2533	91-2532		Reject (surf)
							91-2535		Re-exam
					51-29	91-2534	91-2532		Reject (surf)
							91-2535		Re-exam
					51-30	91-2410	91-2388		
					51-31	91-2411	91-2388		
					51-32	91-2412	91-2388		
					51-33	91-2418	91-2388		
					51-34	91-2417	91-2388		
					51-37	91-2419	91-2441		
					51-39	91-2408	91-2388		
					51-87	91-2420	91-2388		
					51-88	91-2421	91-2388		
					51-89	91-2422	91-2388		
	52	Atmos Dump SG 2	One	0	52-3	90-2237	90-2107		
					52-85	90-2306	90-2301		PSE/Block valve
					52-86	90-2307	90-2301		PSE/Block valve

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.21 & AHE5.22	52	Atmos Dump SG 2	One	0	52-87	90-2308	90-2301		PSE/Block valve
					52-88	90-2309	90-2301		PSE/Block valve
	56	FW SG 1	One	4	56-1	90-2250	90-2255		
					56-4	90-2251	90-2255		
					56-6	90-2248	90-2255		
					56-7	90-2249	90-2255		
			Two	2	56-9	91-2305	91-2300		
					56-11	91-2304	91-2299		
	60	Downcomer FW SG 1	One	9	60-7	88-2097	88-2108		
					60-8	88-2098	88-2305		
					60-9		88-2108		No UT inaccess
					60-11		88-2108		No UT inaccess
					60-12		88-2108		No UT inaccess
					60-14	88-2099	88-2108		
					60-15	88-2100	88-2108		
					60-16	88-2101	88-2108		
					60-17	88-2102	88-2108		
			Two	5	60-2	91-2389	91-2385		
					60-3	91-2390	91-2385		
					60-4	91-2391	91-2385		
					60-5	91-2392	91-2383		Reject (surf)
							91-2537		Re-exam
					60-6	91-2393	91-2384		Reject (surf)
							91-2537		Re-exam
	61	Downcomer FW SG 2	Two	5	61-2	91-2396	91-2387		
					61-3	91-2397	91-2387		
					61-4	91-2398	91-2387		
					61-5	91-2399	91-2387		
					61-6	91-2400	91-2387		
	66	Blowdown SG 1	One	9	66-1	88-2121	88-2109		
					66-2	88-2121	88-2109		
					66-3	88-2120	88-2109		
					66-4	88-2117	88-2109		
					66-5	88-2116	88-2096		
					66-7	88-2115	88-2109		
					66-8	88-2114	88-2109		
					66-9	88-2113	88-2109		
					66-25	88-2119	88-2109		
					66-28	88-2118	88-2109		
AHE 5.31 & AHE5.32	47	MS SG 1 270	One	7	47-3	88-2138	88-2112		
					47-7	88-2141	88-2058		
					47-11	88-2135	88-2058		
					47-15	88-2137	88-2058		
					47-19	88-2139	88-2058		
					47-23	88-2136	88-2058		
					47-27	88-2140	88-2058		
	48	MS SG 1 90	Two	9	48-3	91-2312	91-2338		
					48-7	91-2294	91-2251		
					48-11	91-2297	91-2251		
					48-15	91-2254	91-2250		
					48-19	91-2295	91-2250		

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.31 & AHE5.32	48	MS SG 1 90	Two	9	48-23 48-27 48-34 48-35	91-2255 91-2296 91-2293 91-2258	91-2250 91-2249 91-2251 91-2248		
B 1.22	02	Closure Head	One	33%	2-4	88-2375 88-2373 88-2372	88-2346 88-2346 88-2346		
B 1.30	01	Reactor Vessel	One	50%	1-14	*			*Seperate Report by Westinghouse
B 1.40	02	Closure Head	One	33%	2-1	88-2371 88-2374 88-2376	88-2346 88-2346 88-2346		
B 2.11 & B2.12	05	PZR	One	33%	5-2 5-8	88-2362 88-2358 88-2366 88-2364 88-2361 88-2360	88-2343 88-2343 88-2343 88-2343 88-2343 88-2343		
B 2.31	03	SG 1	One	1	3-5	90-2395 90-2396 90-2397			
	04	SG 2	One	1	4-2	90-2319 90-2320 90-2321			
B 2.32	03	SG 1	One	4	3-10 3-11 3-12 3-13	90-2401 90-2402 90-2403 90-2404 90-2405 90-2406 90-2407 90-2408 90-2409 90-2410 90-2411 90-2412			
B 2.40	03	SG 1	One	1	3-6	90-2398 90-2399 90-2400			
B 3.90 & B3.100	01 01	Reactor Vessel Reactor Vessel	One One	2 2	1-15 1-18 1-15 1-18	* * * *			*Seperate Report by Westinghouse
B 3.110	05	PZR	One	2	5-11 5-9	88-2359 88-2365 88-2363 88-2353 88-2356 88-2354	88-2343		
B 3.120	05	PZR	One	2	5-11 5-9	88-2355 88-2357			Nozzle Inner Radius Nozzle Inner Radius

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 3.130	03	SG 1	One	1	3-9	90-2353 90-2354 90-2355			
	04	SG 2	One	1	4-9	90-2334 90-2335 90-2336			
B 3.140	03	SG 1	One	1	3-9	90-2356			Inner Radius
	04	SG 2	One	1	4-9	90-2337			Inner Radius
B 4.12	02	Closure Head	One	8	CEDM			90-2456	
			Two	8	CEDM			92-2001	
B 4.13	01	Reactor Vessel	One	5	ICI			90-2456	
			Two	5	ICI			92-2001	
B 4.20	05	PZR	One	3	HTRS			90-2297	
								90-2456	
			Two	3	HTRS			92-2001	
B 5.40	20	PZR Surge	One	2	5-34	88-2367	88-2352		
	31	PZR Safety			5-29	88-2316	88-2309		
B 5.130	21	SD Cooling 1	One	1	6-11	90-2376	90-2366		
	23	Safety Injection 1A	One	1	9-10	90-2448	90-2452		
B 5.140	27	PZR Spray 1A	One	1	9-11	90-2380	90-2367		
	32	Drain Line 1A	One	1	8-18		88-2312		
	33	Drain Line 1B	Two	1	10-18		91-2348		
B 6.10	02	Closure Head Nuts	One	9	35-43		90-2433		
			Two	27	44-54, 1-17		91-2488		
							91-2489		
B 6.30	02	Closure Head Studs	One	9	34-42	90-2431	90-2432		
			Two	27	44-54, 1-17	91-2471	91-2479		
							91-2480		
							91-2481		
							91-2482		
B 6.50	02	Closure Head Washers	One	9	35-43			90-2434	
			Two	27	44-54, 1-17			91-2483	
B 6.180	16	RCP 1A Flange Studs	One	5	1-16	88-2386	88-2382	88-2384	
								90-2292	
								90-2296	
	17	RCP 1B Flange Studs	One	5	1-16	88-2387	88-2383	88-2385	
								90-2292	
								90-2296	
	18	RCP 2A Flange Studs	One	5	1-16	88-2393	88-2391	88-2389	
								90-2292	
								90-2296	
	19	RCP 2B Flange Studs	One	5	1-16	88-2394	88-2392	88-2390	
								90-2292	
								90-2296	
B 6.190	18	RCP Flange	One	1				88-2406	RCP 2A
	17							90-2238	RCP 1B
B 6.200	16	RCP 1A Nuts & Rings	One	5	1-16			88-2413	
	17	RCP 1B Nuts & Rings	One	5	1-16			88-2414	
	18	RCP 2A Nuts & Rings	One	5	1-16			88-2415	
	19	RCP 2B Nuts & Rings	One	5	1-16			88-2416	
B 7.20	05	PZR Manway Studs	One	20	20 Studs		88-2410	88-2409	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 7.20	05	PZR Manway Studs	One	20	1 Stud			88-2412	PSE
			Two	20	20 Studs			91-2491	
B 7.30	03	SG 1 Manway Studs	One	40	40 Studs		88-2388	88-2405	
					5 Studs			88-2411	PSE
					20 Studs			90-2298	
					20 Studs			90-2362	
			Two	40	40 Studs			91-2469	
	04	SG 2 Manway Studs	One	40	40 Studs		88-2388	88-2405	Reject 1 stud
					1 Stud			88-2411	PSE
					20 Studs			90-2299	
					20 Studs			90-2322	
			Two	40	40 Studs			91-2484	
					1 Stud			91-2504	PSE
B 7.50	31	PZR PSV Studs&Nuts	One	1	PSV200			88-2220	
								88-2396	PSE
							90-2333	90-2332	
					PSV201			88-2396	PSE
							90-2333	90-2332	
					PSV202			88-2396	PSE
							90-2333	90-2332	
					PSV203			88-2396	PSE
							90-2333	90-2332	
			Two	1	PSV200			91-2506	
					PSV201			91-2506	
					PSV202			91-2506	
					PSV203			91-2506	
	37	Charging Line Flange	One	1	V435			88-2326	
B 7.60	16	RCP 1A Seal Housing	One	5	1-16			88-2417	
			Two	5	1-16			91-2266	
	17	RCP 1B Seal Housing	One	5	1-16			88-2418	
			Two	5	1-16			91-2266	
	18	RCP 2A Seal Housing	One	5	1-16			88-2419	
			Two	5	1-16			91-2266	
	19	RCP 2B Seal Housing	One	5	1-16			88-2420	
			Two	5	1-16			91-2266	
B 7.70	21	SD Cooling Loop 1	One	1	V653			88-2201	
	22	SD Cooling Loop 2	One	1	V654			90-2252	
	23	Safety Injection 1A	One	1	V237			90-2443	
	24	Safety Injection 1B	One	1	V543			88-2165	
	25	Safety Injection 2A	One	1	V540			88-2401	
	26	Safety Injection 2B	One	1	V225			88-2169	
	28	PZR Spray 1B	One	2	V241			88-2210	
					V242			88-2210	
	31	PZR Safeties	One	1	PSV200			88-2220	
			Two	1	PSV202			91-2525	
	32	Drain Line 1A	One	2	V234			88-2328	
					V334			88-2328	
	33	Drain Line 1B	Two	2	V235			91-2335	
					V335			91-2335	
	34	Drain Line 2A	Two	2	V233			91-2334	
					V333			91-2346	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 7.70	37	Charging Line	One	1	V240			88-2221	
	38	Loop 1 Drain	One	1	V215			90-2369	
	39	HPSI 1	One	1	V523			90-2287	
			Two	1	V522			91-2262	
					V957			92-2002	
					V532			91-2401	
B 7.80	40	HPSI 2	Two	1	V532			91-2401	
	02	Closure Head	One	1	CEDM 92			90-2150	
					CEDM 96			90-2150	
B 8.20	05	PZR	One	33%	5-1	90-2293	88-2343		
						90-2294			
						90-2295			
B 8.30	03	SG 1	One	33%	3-1	90-2357			
						90-2351			
						90-2352			
B 9.11 &B9.12	06	RCS Piping	One	7	17-2	90-2441	90-2379		
					1-30	90-2438	90-2436		
					1-27	90-2437	90-2435		
					3-30	90-2361	90-2363		
					4-30	90-2345	90-2328		
					6-7	90-2439	90-2435		
					7-7	90-2440	90-2436		
					20-1	88-2368	88-2352		
	20	PZR Surge	One	1	20-1	88-2368	88-2352		
					21-18	90-2377	90-2366		
					21-20	90-2378	90-2366		
					21-14	91-2349	91-2340		
	21	SD Cooling 1	One	2	21-15	91-2350	91-2339		
					22-11	90-2257	90-2253		
					22-14	90-2258	90-2256		
					22-23		90-2253		
	22	SD Cooling 2	One	2	22-11	90-2257	90-2253		
					22-14	90-2258	90-2256		
					22-23		90-2253		
					22-17	91-2386	91-2374		
	23	Safety Injection 1A	Two	2	22-17	91-2386	91-2374		
					23-1	90-2449	90-2452		
					23-2	90-2450	90-2452		
					23-4	90-2451	90-2452		
	24	Safety Injection 1B	Two	3	24-14	91-2306	91-2264		
					24-16	91-2307	91-2265		
					24-19	91-2308	91-2252		
					25-26	88-2298	88-2267		
	25	Safety Injection 2A	One	2	25-26	88-2298	88-2267		
					25-29	88-2299	88-2268		
	26	Safety Injection 2B	One	2	26-9	88-2293	88-2259		
					26-11	88-2292	88-2259		
	29	Combined PZR Spray	Two	1	26-17	91-2403	91-2380		
					29-10	88-2318	88-2315		
					29-11	88-2319	88-2377		
						90-2241	90-2239		
B 9.21 &B9.22	31	PZR Safeties	One	1	31-1	88-2317	88-2309		
	27	PZR Spray 1A	One	3	27-42		90-2367		
					27-43		90-2367		
					27-44		90-2367		
	28	PZR Spray 1B	One	4	28-31		88-2342		

UT inaccess
(added weld 22-14
to program)

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INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.21 & B9.22	28	PZR Spray 1B	One	4	28-32		88-2342		
					28-39		88-2341		
					28-40		88-2341		
	30	Aux PZR Spray	One	2	30-1	90-2242	90-2240		Vol/IEB 88-08 PIPE ALSO Vol/IEB 88-08 PIPE ALSO
					30-2	90-2243	90-2240		
					30-7	90-2242	90-2240		
					30-13	90-2243	90-2240		
			Two	2	30-1		88-2310		
					30-2		88-2310		
					30-7		91-2360		
					30-13		91-2360		
	32	Drain Line 1A	One	2	32-1		91-2359		
					32-2		91-2359		
	33	Drain Line 1B	Two	2	33-1		88-2313		
					33-5		88-2314		
	36	Letdown	One	4	36-8		91-2348		
					36-9		91-2347		
					36-28		88-2348		
					36-35		88-2348		
	37	Charging	One	5	37-41		88-2350		
					37-42		88-2350		
					37-43		88-2324		
					37-45		88-2324		
					37-47		88-2325		
	39	HPSI Loop 1	One	2	39-1		88-2325		
					39-5		88-2291		
			Two	3	39-12		88-2291		
					39-13		91-2253		
					39-24		91-2253		
	40	HPSI Loop 2	One	3	40-1		91-2263		
					40-2		90-2254		
					40-3		90-2254		
			Two	2	40-6		90-2254		
					40-7		91-2402		
B 9.31	06	RCS Piping	One	1	9-8	90-2447	90-2446		
B 9.32	06	RCS Piping	One	1	8-17		88-2312		
	22	SD Cooling 2	One	1	22-7A		90-2253		
B 9.40	32	Drain Line 1A	One	1	32-6		88-2314		
	33	Drain Line 1B	Two	1	33-6		91-2347		
					33-8		91-2361		
					33-9		91-2341		
	34	Drain Line 2B	Two	1	34-6		91-2329		
					34-8		91-2329		
					34-9		91-2329		
	38	Drain Line Loop 1	One	1	38-5		90-2370		
B 10.10	22	SD Cooling	Two	1	SI-193-H23		91-2377		
	26	Safety Injection 2B	One	1	SI-179-H10		88-2266		
	36	Letdown	One	1	RC-91-H5		88-2345		
B 12.20	16	RCP Casing	One	1	RCP 2A			88-2395	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 12.20	17	RCP Casing	One	0	RCP 1B			90-2238	
B 13.10	01	Reactor Vessel	One	100%	Acc Areas			88-2407	
			Two	100%	Acc Areas			88-2408	
B 14.10	02	Closure Head	One	2	9-76	88-2398		91-2531	
			One	2	9-83	88-2397			
			One	2	10-76	88-2400			
					10-83	88-2399			
B15.10	1,2	Reactor Vessel	One	All	Press Bound			*	
			Two	All	Press Bound			***	
B15.20	5	PZR	One	All	Press Bound			*	
			Two	All	Press Bound			***	*88-2424
B15.30	3	SG 1	One	All	Press Bound			*	90-2001 AND
			Two	All	Press Bound			***	90-2456
	4	SG 2	One	All	Press Bound			*	
			Two	All	Press Bound			***	
B15.50	All	RCS Piping	One	All	Class 1			*	
			Two	All	Class 1			***	***92-2001
B15.60	16	RCP 1A	One	All	Press Bound			*	
			Two	All	Press Bound			***	
	17	RCP 1B	One	All	Press Bound			*	
			Two	All	Press Bound			***	
	18	RCP 2A	One	All	Press Bound			*	
			Two	All	Press Bound			***	
	19	RCP 2B	One	All	Press Bound			*	
			Two	All	Press Bound			***	
B 15.70	ALL	RCS Valves	One	All	Class 1			*	
			Two	All	Class 1			***	
BFLYWH	16	RCP 1A Flywheel	One	1		89-1001**			**FLYWHEELS
						89-1002**			MOVED FROM
	17	RCP 1B Flywheel	One	1		89-1005**			UNIT 1 DURING
						89-1006**			THIS OUTAGE
	18	RCP 2A Flywheel	One	1		89-1007**			
						89-1008**			
	19	RCP 2B Flywheel	One	1		89-1003**			
						89-1004**			
BIWF	03	SG 1	One	1	3-40			88-2421	
	16	RCP 1A	One	2	16-17			88-2333	
					16-18			88-2334	
			Two	4	16-12			91-2267	
					16-13			91-2267	
					16-14			91-2267	
					16-15			91-2267	
	17	RCP 1B	One	2	17-17			88-2340	
					17-18			88-2339	
			Two	4	17-12			91-2268	
					17-13			91-2268	
					17-14			91-2268	
					17-15			91-2268	
	18	RCP 2A	One	4	18-12			88-2332	
					18-13			88-2332	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
BIWF	18	RCP 2A	One	4	18-14			88-2332	
					18-15			88-2332	
			Two	2	18-17			91-2272	
					18-18			91-2272	
	19	RCP 2B	One	4	19-12			88-2338	
					19-13			88-2338	
					19-14			88-2338	
					19-15			88-2338	
			Two	2	19-17			91-2273	
					19-18			91-2273	
					RC-28-H1			88-2336	
					RC-28-H2			89-2004	
	20	PZR Surge	One	2	RC-28-H2			88-2337	
								89-2005	
					RC-28-H3			89-2006	IEB 88-11
					RC-28-H4			89-2007	
					RC-28-H842			89-2001	IEB 88-11
					RC-28-H843			89-2002	IEB 88-11
					RC-28-H844			89-2003	IEB 88-11
			Two	2	RC-28-H842			91-2270	
					RC-28-H843			91-2269	
					RC-28-H844			91-2271	
	21	SD Cooling 1	One	7	RC-51-H1			90-2364	
					RC-51-H2			90-2453	
					RC-51-H3			90-2290	
					RC-51-H821			90-2365	
					SI-240-H10			88-2162	
					SI-240-H11			88-2163	
					SI-240-H13			88-2164	
			Two	7	RC-51-H4			91-2274	
					RC-51-H5			91-2275	
					SI-240-H2			91-2277	
					SI-240-H12			91-2276	
					SI-240-H822			91-2282	
					SI-240-H823			91-2284	
					SI-240-H824			91-2283	
	22	SD Cooling 2	One	4	RC-68-H5			90-2259	
					RC-68-H6			90-2260	
					SI-193-H17			90-2261	
					SI-193-H19			90-2262	
			Two	5	SI-193-H8			91-2375	
					SI-193-H9			91-2362	
					SI-193-H20			91-2366	
					SI-193-H23			91-2363	
					SI-193-H25			91-2364	
	23	Safety Injection 1A	One	2	SI-207-H3			90-2444	
					SI-207-H5			90-2445	
			Two	2	SI-207-H3			91-2530	PSE-SNUB. REDUC.
					SI-223-H3			88-2166	
	24	Safety Injection 1B	One	2	SI-223-H4			88-2380	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
BIWF	24	Safety Injection 1B	Two	2	SI-223-H1			91-2285	PSE-SNUB. REDUC.
					SI-223-H1			91-2511	
					SI-223-H2			91-2286	
	25	Safety Injection 2A	One	2	SI-156-H7			88-2402	
					SI-156-H9			88-2168	
					SI-179-H9			88-2170	
	26	Safety Injection 2B	One	3	SI-179-H10			88-2171	
					SI-179-H11			88-2172	
					SI-175-H21			91-2281	
			Two	3				91-2512	
					SI-175-H22			91-2287	
					SI-175-H23			91-2288	
	27	PZR Spray 1A	One	9	RC-62-H26			90-2455	
					RC-62-H27			88-2202	
					RC-62-H28			88-2203	
					RC-62-H29			88-2204	
					RC-62-H30			88-2205	
					RC-62-H31			88-2206	
					RC-62-H32			88-2207	
					RC-62-H33			88-2208	
					RC-62-H34			88-2209	
					RC-17-H24			88-2335	
					RC-17-H34			88-2211	
	28	PZR Spray 1B	One	8	RC-17-H36			88-2212	
					RC-17-H38			88-2213	
					RC-17-H39			88-2214	
					RC-17-H40			88-2215	
					RC-17-H41			88-2216	
					RC-17-H42			88-2217	
					RC-18-H16			88-2218	
					RC-18-H18			88-2219	
					RC-60-HA			88-2256	
					RC-60-HB			88-2173	
	33	Drain 1B	Two	2	RC-58-HA			91-2343	
					RC-58-HB			91-2345	
	34	Drain 2A	Two	2	RC-96-HA			91-2344	
					RC-96-HB			91-2342	
	36	Letdown	One	9	RC-91-H1			88-2351	
					RC-91-H5			88-2344	
					RC-91-HAA			88-2179	
					RC-91-HAK			88-2180	
					RC-91-HB			88-2174	
					RC-91-HD			88-2175	
					RC-91-HE			88-2176	
					RC-91-HY			88-2177	
					RC-91-HZ			88-2178	
					CH-5-H2			88-2222	
	37	Charging	One	14				90-2368	PSE
					CH-5-H3			90-2223	
					CH-5-H10			88-2224	PSE
					CH-5-H25			88-2225	

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
BIWF	37	Charging	One	14	CH-5-H26			88-2226	
					CH-5-H27			88-2227	
					CH-5-H28			88-2228	
					CH-5-H30			88-2229	
					CH-5-H34			88-2230	
					CH-5-H35			88-2231	
					CH-5-H36			88-2232	
					CH-5-H42			88-2233	
					CH-5-H43			88-2234	
					CH-5-H44			88-2235	
					CH-5-HAA			88-2236	
	39	HPSI 1	One	4	SI-248-H19			88-2403	PSE
					SI-248-H26			88-2181	
					SI-248-H27			88-2182	
					SI-248-H28			88-2183	
					SI-248-H30			88-2184	
			Two	5	SI-248-H17			91-2328	
					SI-248-H18			91-2280	
					SI-248-H19			91-2279	
					SI-248-H20			91-2278	
					SI-248-H29			91-2327	
	40	HPSI 2	One	3	SI-199-H13			90-2263	
					SI-199-H14			90-2264	
					SI-199-H21			90-2265	
			Two	4	SI-199-H15			91-2369	
					SI-199-H16			91-2368	
					SI-199-H17			91-2367	
								91-2513	
								91-2365	
					SI-199-H18				Re-exam
C 1.10	41	SG 1	One	1	41-3	90-2416			
						90-2417			
						90-2418			
					41-4	90-2419			
						90-2420			
						90-2421			
	68	Reg HT Exch.	One	1	68-7	90-2372			
	69	Letdown HT Exch.	One	50%	69-1	88-2330			
	84	SD Cooling 1	Two	50%	74-123	91-2218			
						91-2226			
						91-2232			
C1.20	41	SG 1	One	50%	41-5	90-2422			
						90-2423			
						90-2424			
C 1.30	68	Reg HT Exch.	One	1	68-6	90-2371			
	41	SG 1	One	50%	41-1	90-2413			
						90-2414			
						90-2415			
	69	Letdown HT Exch.	One	50%	69-2	88-2329			
	84	SD Cooling 1	Two	50%	74-124	91-2219			
						91-2224			
						91-2231			

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
C 2.21	41	SG 1	One	1	41-16	90-2373	90-2358		
& C2.22	42	SG 2	One	1	42-16	90-2350	90-2331		
	84	SD Cooling 1	Two	1	74-122	91-2220	91-2204		
						91-2225			
						91-2233			
						91-2203			Inner radius
C 3.10	41	SG 1	One	1	41-42		90-2381		
C 3.20	43	MS SG 1-90	One	1	SG-36-H17		88-2287		
	45	MS SG 2-270	One	3	SG-42-H14		88-2378		
					SG-42-H15		88-2378		
					SG-42-H16		88-2379		
	55	FW SG 2	One	1	SG-5-H9		90-2425		
	64	Blowdown SG 1	One	3	SG-39-H15		90-2288		
					SG-39-H17		90-2288		
					SG-53-H1		90-2360		
	65	Blowdown SG 2	One	2	SG-48-H20		90-2289		
					SG-52-H1		90-2344		
			Two	3	SG-48-H20		91-2492		Extra exam
	71	LPSI Discharge 1	One	1	SI-87-H11		88-2038		
	76	CS Suction 1	One	1	SI-9-H4		88-2005		
	83	SD Cooling 1	Two	2	SI-87-H4		91-2176		
					SI-90-H1		91-2177		
	88	SD Cooling 2	One	1	SI-72-H13		88-2065		
	89	LPSI Suction 2	One	1	SI-194-H14		88-2068		
	91	SD Cooling 1	One	4	SI-70-H9		88-2331		
					SI-70-H11		88-2153		
					SI-70-H12		88-2311		
					SI-70-H16		88-2153		
	92	LPSI Suction 1	One	1	SI-241-H21		88-2152		
			Two	2	SI-239-H1		91-2221		
					SI-241-H16		91-2237		
	93	CS Discharge 1	Two	1	SI-89-H13		91-2470		
	94	SD Cooling 1	Two	2	SI-70-H5		91-2016		
					SI-70-H8		91-2026		
	99	LPSI 2B	Two	1	SI-174-H13		91-2437		
	100	CSP-LPSI Suction 1	One	1	SI-369-H1		88-2290		
			Two	1	84-5		91-2526		
C 3.30	72	LPSI Pump 1	One	2	72-3B		88-2036		
					72-3C		88-2036		
			Two	1	72-3A		91-2477		
	75	LPSI Pump 2	Two	3	73-3A		91-2495		
					73-3B		91-2495		
					73-3C		91-2498		
	78	CS Pump 1	One	2	80-3B		88-2001		
					80-3C		88-2001		
			Two	1	80-3A		91-2493		
	81	CS Pump 2	Two	3	81-3A		91-2496		
					81-3B		91-2497		
					81-3C		91-2494		
C 4.40	47	MS SG 1 270	One	20	V170	88-2251			
	48	MS SG 1 90	One	20	V180	88-2252			

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
C 4.40	56	FW SG 1	Two	20	V132 V174	91-2302 91-2303			
C 5.11 &C5.12	58	Aux & FW SG 1	One Two	1 2	58-1 58-12 58-13 58-16 58-16A	88-2370 91-2352 91-2351 91-2353 91-2354	88-2349 91-2332 91-2332 91-2336 91-2336		
	59	Aux & FW SG 2	One Two	1 3	59-1 59-12 59-13 59-16 59-16A	88-2369 91-2356 91-2355 91-2358 91-2357	88-2347 91-2331 91-2330 91-2337 91-2337		Reject Re-exam
C 5.21 &5.22	43	MS SG 1 90	One	3	43-1 43-2 43-22	88-2306 88-2320 88-2323	88-2287 88-2287 88-2287		
	44	MS SG 1 270	One	3	44-26 44-28 44-30	88-2307 88-2308 88-2304	88-2288 88-2288 88-2288		
	46	MS SG 2 90	One	2	46-25 46-27	88-2321 88-2322	88-2280 88-2280		
	54	FW SG 1	One	5	54-25A 54-27 54-41 54-49 54-50	90-2384 90-2385 90-2245 90-2246 90-2247	90-2359 90-2359 90-2244 90-2244 90-2244		
	55	FW SG 2	One	5	42-44 42-43 55-11 55-12 55-15 55-26	90-2341 90-2343 90-2338 90-2339 90-2340 90-2342	90-2330 90-2330 90-2330 90-2329 90-2330 90-2329		
	58	Aux & FW SG 1	One	3	58-19 58-20 41-39	88-2297 88-2296 90-2392	88-2381 88-2289 90-2391		
	59	Aux & FW SG 2	One	2	59-33 59-34	88-2295 88-2294	88-2258 88-2258		
	62	Aux & FW SG 1	One	1	62-24	88-2085	88-2056		
	63	Aux & FW SG 2	One	1	63-4	88-2086	88-2057		
	64	Blowdown SG 1	One	2	64-30 64-29	90-2374 90-2375	90-2360 90-2360		
	65	Blowdown SG 2	One	4	65-22 65-24 65-27 65-28	90-2346 90-2347 90-2348 90-2349	90-2344 90-2344 90-2331 90-2331		
C 7.10	N/A	Pressure Vessels	One	All	Press Bound			*	*91-2008, 91-2009,
C 7.30	N/A	Piping	One	All	Press Bound			*	91-2015, 91-2017,
C 7.50	N/A	Pumps	One	All	Press Bound			*	91-2025, 91-2028,
C 7.70	N/A	Valves	One	All	Press Bound			*	91-2038, 91-2040 91-2042,91-2043

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ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CIWF	41	SG 1	One	2	41-41			90-2429	
					41-42			90-2430	
	43	MS SG 1 90	One	3	SG-36-H17			88-2281	
					SG-36-H884			88-2282	
					SG-36-H885			88-2283	
	44	MS SG 1 270	One	2	SG-33-H17			88-2237	
					SG-33-H18			88-2238	
	45	MS SG 2 270	One	3	SG-42-H12			88-2422	PSE
					SG-42-H14			88-2266	
					SG-42-H15			88-2285	
					SG-42-H16			88-2284	
	46	MS SG 2 90	One	2	SG-45-H17			88-2339	
					SG-45-H18			88-2240	
	47	MS SG 1 270	One	1	SG-206-H1			88-2075	
	48	MS SG 1 90	Two	1	SG-207-H1			91-2416	
	51	ADV # 1	One	1	SG-59-H6			88-2076	
								90-2108	
			Two	1	SG-70-H6			91-2536	
	53	Steam to Aux FW	One	4	SG-81-H1			88-2077	
					SG-81-H2			88-2379	
					SG-83-H1			88-2078	
					SG-83-H2			88-2074	
			Two	2	SG-81-H4			91-2406	
					SG-83-H4			91-2407	
	54	FW SG 1	One	7	SG-2-H4			90-2266	
					SG-2-H5			90-2267	
					SG-2-H12			90-2382	
					SG-2-H13			90-2268	Reject
								90-2394	Reject
								90-2454	Re-exam
					SG-2-H14			90-2269	
					SG-2-H15			90-2270	
					SG-2-H803			90-2383	
					SG-2-H806			90-2002	
	55	FW SG 2	One	9	SG-5-H9			90-2311	
					SG-5-H10			90-2310	
					SG-5-H11			90-2312	
					SG-5-H12			90-2313	
					SG-5-H805			90-2314	
					SG-5-H809			90-2003	
								90-2315	
					SG-5-H812			90-2316	
					SG-14-H1			90-2317	
					SG-14-H804			90-2318	
	56	FW SG 1	Two	1	SG-202-H1			91-2301	
	58	Aux & FW SG 1	One	7	SG-8-H2			90-2386	
					SG-8-H3			90-2387	
					SG-8-H4			90-2388	
					SG-8-H5			90-2389	
					SG-8-H20			90-2390	
					SG-8-H901			90-2426	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CIWF	58	Aux & FW SG 1	One	7	SG-8-H903			90-2427	
			Two	7	SG-8-H20			91-2376	
	59	Aux & FW SG 2	One	6	AF-6-H1			88-2257	
					SG-11-H8			88-2261	
					SG-11-H9			88-2260	
					SG-11-H10			88-2264	
					SG-11-H11			88-2263	
					SG-11-H12			88-2262	
	60	Downcomer FW SG 1	One	1	SG-200-H9			88-2404	
	61	Downcomer FW SG 2	Two	2	SG-203-H13			91-2414	
					SG-203-H14			91-2415	
	62	Aux FW SG 1	One	1	AF-4-H3			88-2053	
	63	Aux FW SG 2	One	2	AF-6-H2			88-2055	
					AF-16-H1			88-2054	
	64	Blowdown SG 1	One	12	SG-39-H10			90-2271	
					SG-39-H11			90-2272	
					SG-39-H12			90-2273	
					SG-39-H13			90-2274	
					SG-39-H14			90-2275	
					SG-39-H15			90-2276	
					SG-39-H16			90-2277	
					SG-39-H17			90-2278	
					SG-39-H26			90-2279	
					SG-53-H1			90-2428	
					SG-53-H2			90-2393	
					SG-53-H924			90-2442	
	65	Blowdown SG 2	One	12	SG-48-H2			90-2323	
					SG-48-H3			90-2280	
					SG-48-H4			90-2281	
					SG-48-H19			90-2282	
					SG-48-H20			90-2283	
					SG-48-H21			90-2284	
					SG-48-H925			90-2324	
					SG-52-H1			90-2325	
					SG-52-H2			90-2326	
					SG-52-H3			90-2285	
					SG-52-H4			90-2286	
					SG-52-H923			90-2327	
			Two	11	SG-48-H20			91-2508	Extra exam
	70	LPSI A Suction	One	1	SI-67-H4			88-2027	
	71	LPSI A Discharge	One	1	SI-87-H11			88-2026	
			Two	5	SI-78-H1			91-2159	
					SI-78-H2			91-2246	
					SI-87-H1			91-2172	
					SI-87-H2			91-2188	
					SI-87-H3			91-2161	
	72	LPSI Pump A	One	2	72-3B			91-2539	Re-exam
					72-3C			88-2025	
					72-3A			91-2490	
	73	LPSI Pump B Suction	Two	1	SI-308-H14			91-2169	
			Two	1					

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CIWF	75	LPSI Pump B Discharge	Two	1	73-3A			91-2499	
					73-3B			91-2499	
					73-3C			91-2499	
	76	CS Pump A Suction	One	1	SI-9-H4			88-2002	
	77	CS Pump A Discharge	One	4	SI-79-H1			88-2010	
					SI-79-H2			88-2009	
					SI-79-H3			88-2008	
					SI-79-H4			88-2007	
			Two	3	SI-79-H5			91-2153	
					SI-79-H6			91-2160	
					SI-82-H2			91-2171	
	78	CS Pump A	One	2	80-3B			88-2003	
					80-3C			88-2003	
			Two	1	80-3A			91-2501	
	79	CS Pump B Suction	One	3	SI-34-H1			88-2253	
					SI-34-H2			88-2254	
					SI-34-H3			88-2255	
			Two	2	SI-33-H4			91-2151	
	80	CS Pump B Discharge	One	3	SI-119-H7			88-2045	
					SI-119-H8			88-2044	
					SI-119-H9			88-2046	
			Two	4	SI-119-H1			91-2165	
					SI-119-H2			91-2167	
					SI-119-H3			91-2166	
					SI-119-H4			91-2168	
								91-2538	Re-exam
	81	CS Pump B	Two	1	81-3A			91-2500	
					81-3B			91-2500	
					81-3C			91-2500	
	82	SD Cooling A	One	2	SI-78-H5			88-2022	
					SI-79-H10			88-2006	
	83	SD Cooling A	One	4	SI-87-H9			88-2021	
					SI-89-H1			88-2012	
					SI-89-H2			88-2014	
					SI-89-H3			88-2013	
			Two	3	SI-87-H4			91-2174	
					SI-90-H1			91-2179	
					SI-90-H2			91-2139	
	85	SD Cooling B	One	3	SI-119-H10			88-2050	
					SI-123-H6			88-2041	
					SI-123-H7			88-2043	
			Two	6	SI-119-H11			91-2141	
					SI-119-H13			91-2140	
					SI-119-H14			91-2143	
					SI-123-H2			91-2145	
					SI-123-H5			91-2149	
					SI-123-H8			91-2148	
	86	SD Cooling B	One	3	SI-129-H10			88-2048	
					SI-129-H11			88-2047	
					SI-129-H12			88-2051	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CTWF	86	SD Cooling B	Two	7	SI-72-H5			91-2147	
					SI-72-H6			91-2146	
					SI-129-H7			91-2152	
					SI-129-H8			91-2154	
					SI-135-H1			91-2163	
					SI-135-H2			91-2162	
	88	LPSI B	One	8	SI-135-H3			91-2164	
					SI-72-H11			88-2070	
					SI-72-H13			88-2071	
					SI-72-H14			88-2069	
					SI-72-H21			88-2063	
					SI-72-H22			88-2064	
	89	LPSI B	One	4	SI-73-H1			88-2067	
					SI-73-H2			88-2072	
					SI-73-H3			88-2073	
					SI-194-H12			88-2059	
					SI-194-H13			88-2060	
					SI-194-H14			88-2061	
	90	CS B	Two	2	SI-194-H23			88-2062	
					SI-134-H9			91-2144	
	91	LPSI A	One	7	SI-134-H10			91-2150	
					SI-70-H9			88-2148	
					SI-70-H10			88-2151	
					SI-70-H11			88-2160	
					SI-70-H12			88-2150	
					SI-70-H13			88-2161	
			Two	2	SI-70-H15			88-2149	
					SI-70-H16			88-2159	
					SI-71-H2			91-2156	
					SI-71-H3			91-2157	
	92	LPSI A	One	5	SI-239-H3			88-2155	
					SI-241-H12			88-2156	
					SI-241-H14			88-2158	
					SI-241-H15			88-2154	
					SI-241-H21			88-2157	
			Two	5	SI-239-H1			91-2222	
					SI-239-H2			91-2170	
					SI-241-H9			91-2238	
					SI-241-H11			91-2239	
								91-2542	Re-exam
					SI-241-H16			91-2236	
	93	CS Discharge 1	Two	2	SI-89-H10			91-2155	
					SI-89-H13			91-2440	
	94	LPSI A	One	3	SI-89-H7			88-2042	
					SI-89-H8			88-2049	PSE
								88-2110	
					SI-89-H9			88-2052	
			Two	7	SI-70-H4			91-2240	
					SI-70-H5			91-2018	
					SI-70-H8			91-2029	
					SI-241-H6			91-2197	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CIWF	94	LPSI A	Two	7	SI-241-H7			91-2196	
					SI-241-H8			91-2241	
					SI-241-H17			91-2242	
	95	LPSI B	One	6	SI-72-H8			88-2089	
					SI-72-H10			88-2090	
					SI-134-H11			88-2039	
					SI-134-H12			88-2040	
					SI-194-H3			88-2091	
					SI-194-H5			88-2092	
			Two	10	SI-72-H7			91-2195	
					SI-72-H9			91-2194	
					SI-194-H4			91-2189	
					SI-194-H7			91-2228	
					SI-194-H8			91-2229	
					SI-194-H9			91-2193	
								91-2540	Re-exam
					SI-194-H10			91-2010	
					SI-194-H11			91-2198	
					SI-194-H15			91-2012	
					SI-194-H21			91-2190	
	96	LPSI To Loop 1A	One	3	SI-202-H7			88-2187	
					SI-202-H8			88-2188	
					SI-202-H9			88-2189	
			Two	8	SI-202-H2			92-2004	
					SI-202-H3			91-2290	
								91-2516	PSE-SNUB. REDUC.
					SI-202-H4			91-2289	
					SI-202-H5			91-2261	
								91-2514	removed snubber red.
					SI-202-H6			91-2260	
					SI-202-H10			91-2292	
					SI-202-H11			91-2291	
					SI-202-H12			91-2515	PSE-SNUB. REDUC.
					SI-202-H15			92-2003	
	97	LPSI To Loop 1B	One	10	SI-220-H8			90-2291	
					SI-220-H9			88-2190	
					SI-220-H10			88-2191	
					SI-220-H11			88-2192	
					SI-220-H12			88-2193	
					SI-220-H13			88-2194	
					SI-220-H14			88-2195	
					SI-220-H15			88-2196	
					SI-220-H19			88-2197	
					SI-220-H22			88-2198	
			Two	7	SI-220-H1			91-2333	
								91-2518	Re-exam
					SI-220-H7			91-2519	PSE-SNUB. REDUC.
					SI-220-H12			91-2521	PSE-SNUB. REDUC
					SI-220-H16			91-2326	
					SI-220-H17			91-2320	
					SI-220-H18			91-2323	

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
CIWF	97	LPSI To Loop 1B	Two	7	SI-220-H20			91-2322	
					SI-220-H21			91-2316	
					SI-220-H24			91-2522	PSE-SNUB. REDUC.
					SI-220-H27			91-2520	PSE-SNUB. REDUC.
					SI-220-H28			91-2317	
	98	LPSI To Loop 2A	One	2	SI-220-H29			91-2517	PSE-SNUB. REDUC.
					SI-155-H5			88-2199	
			Two	5	SI-155-H6			88-2200	
					SI-155-H1			91-2315	
					SI-155-H2			91-2324	
					SI-155-H3			91-2318	
					SI-155-H4			91-2314	
					SI-155-H6			91-2523	PSE-SNUB. REDUC.
					SI-155-H7			91-2325	
			Two	5	SI-174-H7			91-2438	
					SI-174-H8			91-2510	
								91-2524	PSE-SNUB. REDUC.
					SI-174-H9			91-2321	
					SI-174-H10			91-2319	
					SI-174-H13			91-2436	
	100	LPSI A Suction	One	2	SI-241-H19			88-2185	
					SI-369-H1			88-2186	
			Two	1	84-5			91-2527	
FR 5.11 &5.12	70	LPSI A Suction	One	3	70-58	88-2083	88-2037		Vol/IEB 79-13
					70-69	88-2082	88-2037		Vol/IEB 79-13
			Two	4	70-104	88-2084	88-2037		
					70-103	91-2465	91-2448		
					70-44	91-2460	91-2447		
					70-46	91-2461	91-2447		
					70-61	91-2503	91-2505		
									UT limited (added weld 70-56 to program)
	71	LPSI B Discharge	One	3	72-5	88-2079	88-2036		
					72-6	88-2080	88-2036		
					72-8	88-2081	88-2036		
			Two	3	72-18	91-2474	91-2463		
					74-45	91-2475	91-2464		
	76	CS A Suction	One	2	74-46	91-2476	91-2464		
					80-10	88-2020	88-2004		
					80-16	88-2016	88-2004		
	77	CS A Discharge	One	3	82-1	88-2018	88-2011		
					82-1A	88-2019	88-2011		
					82-2	88-2017	88-2011		
			Two	4*	82-15	91-2245	91-2459		*required between 2 zones.
					82-16	91-2244	91-2459		
	79	CS Pump B Suction	Two	2	82-31	91-2243	91-2459		
					81-12	91-2502	91-2485		
					81-15	91-2235	91-2005		
	80	CS Pump B Discharge	Two	4*	83-1A	91-2487	91-2486		

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
FR 5.11 &FR5.12	82	SD Cooling A	One	2	72-48	88-2033	88-2024		
					72-61	88-2031	88-2024		
			Two	4*	72-52	91-2210	91-2199		
	83	SD Cooling A	One	6	74-19	88-2035	88-2015		
					74-21	88-2029	88-2015		
					74-74	88-2032	88-2023		
					74-87	88-2030	88-2015		
					74-100	88-2028	88-2023		
			Two	3	74-105	88-2034	88-2015		
					74-1	91-2211	91-2173		
							91-2201		
					74-3	91-2181	91-2175		
					74-117	91-2214	91-2208		
						91-2227			
					74-118	91-2180	91-2178		UT limited (added weld 74-117 to program)
	85	SD Cooling B	Two	4*	73-36	91-2187	91-2183		
					73-37	91-2186	91-2184		
					73-63	91-2185	91-2182		
	89	LPSI B	Two	1	71-79	91-2234	91-2202		
	90	LPSI B	Two	4*	83-55	91-2213	91-2207		
					83-56	91-2212	91-2206		
					83-59	91-2209	91-2205		
	91	LPSI A	One	2	74-44	88-2273	88-2146		
			Two	2*	76-2	88-2277	88-2145		
					77-8	91-2223	91-2217		
	92	LPSI A	One	5	77-10D	91-2215	91-2216		
					70-2	88-2278	88-2147		
					70-16		88-2152		No UT inaccess
					70-17	88-2275	88-2152		
					70-80	88-2276	88-2152		
	94	LPSI A	One	2	70-85	88-2274	88-2152		
					82-47	88-2094	88-2088		
					82-48	88-2095	88-2088		
	100	LPSI A Suction	One	1	70-134	88-2302	88-2290		
			Two	2*	70-116	91-2379	91-2378		
	101	LPSI B Suction	Two	2*	71-130	91-2509	91-2507		
FR 5.21 &FR5.22	88	LPSI B	One	1	78-16	88-2269	88-2066		
	93	Cont. Sump Suction 1	Two		84-9	91-2247	91-2230		
	97	LPSI B	Two	3	77-22	91-2405	91-2381		
					77-27	91-2404	91-2382		
					77-28D	91-2395	91-2382		
	98	LPSI to Loop 2A	One	2	78-45	88-2301	88-2265		
					78-47	88-2300	88-2265		
	98	LPSI to Loop 2A	One	2	78-45	88-2301	88-2265		
FR 5.31 &5.32	82	SD Cooling A	One	1	72-49A		88-2024		
	91	LPSI A	One	1	74-102		88-2146		

APPENDIX B

INSERVICE INSPECTION
CODE LIMITATIONS

APPENDIX B
CODE LIMITATIONS

No Code Limitations identified
during Third Refueling Outage.

APPENDIX C

FORM
NIS-1

APS

NIS-1 FORM

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

1. OWNER ARIZONA PUBLIC SERVICE COMPANY, ET AL
ADDRESS P.O. BOX 52034, PHOENIX, ARIZONA
2. PLANT PALO VERDE NUCLEAR GENERATING STATION
ADDRESS 4 MILES SOUTH OF WINTERSBURG, ARIZONA
3. UNIT NUMBER: 2
4. OWNERS' CERTIFICATE OF AUTHORIZATION
5. COMMERCIAL SERVICE DATE: September 19, 1986
6. COMPONENTS INSPECTED:

COMPONENT OR APPURTENANCE	MANUFACTURER OR INSTALLER	SERIAL NUMBER	STATE OR PROVINCE	NATIONAL BOARD NO
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THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE THIRD REFUELING ARE NUMBERED WITH A 91-2XXX OR 92-2XXX REPORT NUMBER.

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APS

NIS-1 BACK

OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 5/8/91 TO 1/2/92
8. INSPECTION INTERVAL FROM 9/19/86 TO 3/17/97
9. ABSTRACT OF EXAMINATIONS. INCLUDE A LIST OF EXAMINATIONS AND A STATEMENT CONCERNING STATUS OF WORK REQUIRED FOR CURRENT INTERVAL.
THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. THE EXAMINATIONS ARE LISTED BY ASME NUMBERS WITH CORRESPONDING EXAMINATION REPORT NUMBERS. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE THIRD REFUELING ARE NUMBERED WITH A 91-2XXX OR 92-2XXX REPORT NUMBER.
10. ABSTRACT OF CONDITIONS NOTED
THERE ARE NO OUTSTANDING REJECTABLE ITEMS IN UNIT 2. THE REJECTABLE ITEMS DURING THIS OUTAGE INCLUDED SIX AREAS HAVING LINEAR INDICATIONS AND 1 STEAM GENERATOR MANWAY STUD HAVING GALLED THREADS. THE 6 AREAS HAVING LINEAR INDICATIONS WERE; 51-28, 51-29, 53-7, 59-13, 60-5 AND 60-6. SIX HANGERS HAD MINOR DISCREPANCIES WHICH WERE NOT REJECTABLE.
11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN
THE LINEAR INDICATIONS WERE REMOVED BY FILING/GRINDING AS PER THE REQUIREMENT OF EACH MNCR. MT WAS PERFORMED ON THE AREAS AS WELL AS THICKNESS READINGS TO VERIFY THAT MINIMUM WALL THICKNESS WAS MAINTAINED. THE S/G MANWAY STUD WAS REPLACED WITH A NEW STUD. DISCREPANCIES FOUND WITH HANGERS WERE REWORKED IN ACCORDANCE WITH THE APS WORK CONTROL PRACTICES.

SEVERAL REPAIRS AND REPLACEMENTS HAVE BEEN PERFORMED SINCE COMMERCIAL OPERATIONS DUE TO ROUTINE AND CORRECTIVE MAINTENANCE. WORK WAS PERFORMED IN ACCORDANCE WITH ASME SECTION XI AND APS WORK CONTROL PROCEDURES. ALL DOCUMENTS ARE MAINTAINED AT PALO VERDE.

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 3-16-92 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY DEH

CERTIFICATE OF INSERVICE INSPECTION

I, THE UNDERSIGNED, HOLDING A VALID COMMISSION ISSUED BY THE NATIONAL BOARD OF BOILER AND PRESSURE VESSEL INSPECTORS AND THE STATE OR PROVINCE OF ARIZONA EMPLOYED BY HSBI & I CO. OF HARTFORD, CONNECTICUT HAVE INSPECTED THE COMPONENTS DESCRIBED IN THIS OWNERS REPORT DURING THE PERIOD 5-8-91 TO 1-2-92, AND STATE THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE OWNER HAS PERFORMED EXAMINATIONS AND TAKEN CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT IN ACCORDANCE WITH THE REQUIREMENTS OF THE ASME CODE, SECTION XI. BY SIGNING THIS CERTIFICATE NEITHER THE INSPECTOR NOR HIS EMPLOYER MAKES ANY WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE EXAMINATIONS AND CORRECTIVE MEASURES DESCRIBED IN THIS OWNERS REPORT. FURTHERMORE, NEITHER THE INSPECTOR NOR HIS EMPLOYER SHALL BE LIABLE IN ANY MANNER FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE OR A LOSS OF ANY KIND ARISING FROM OR CONNECTED WITH THIS INSPECTION.

INSPECTOR Robert A. Forgiatone COMMISSIONS NB 9685 Az. 264
DATE MARCH 16, 1992 NAT'L BOARD, STATE, PROVINCE

