

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

ARIZONA PUBLIC SERVICE  
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28-8-55

28-8-55

# UNIT 2 INSERVICE INSPECTION REPORT

## 1.0 Introduction

This report is a summary of the examinations performed during the fourth Inservice Inspection (ISI) at Palo Verde Nuclear Generating Station (PVNGS) Unit 2. This report also includes all applicable examinations conducted since the last summary report. This was the second ISI for Interval 1, Period 2, and was conducted during the fourth refueling outage which began March 19, 1993 and was completed September 1, 1993. Palo Verde Unit 2 began commercial operation on September 19, 1986.

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

1. ASME Section XI, Class 1 and 2 pressure retaining components and their supports,
2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8, 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 and second outages in Period 2. All of the examination report numbers listed in Appendix A for the fourth refueling and applicable examinations performed since the last summary report are numbered with 93-2XXX, and are in bold print.

## 2.0 Examination Summary

The evaluation of the results from the ISI examinations indicated that the integrity of the systems had been maintained. All discrepancies were corrected or determined "use as is" 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 techniques, 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
	RT	Radiographic

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 Company, 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
27	RC-062-H-038	improper cold setting
37	37-30	7/32" rounded indication
46	46-2	.6" linear indication
46	SG-045-H-013	broken bolt
55	SG-005-H-013	loose locknut
31	PSV201 (1 nut)	cross threaded nut
6	3-28	.2" x .14" rounded indication
37	CH-005-H-032	spring can scale limit exceeded (use as is MNCR # 93-CH-2016)
55	55-45	2.8" linear indication
42	42-42	low hydraulic fluid reservoir
28	RC-018-H-011	loose nuts/improper cold setting
64	SG-039-H-003	loose nuts
64	SG-039-H-005	loose nut
27	RC-016-H-015	improper cold setting
5	5-1	1.5" UT linear indication 9" UT linear indication (use as is MNCR # 93-RC-2027)
65	SG-048-H-017	loose jam nut
62	62-6	3/8" linear indication
43	SG-036-H-011	cracked weld
43	SG-042-H-011	cracked weld
65	SG-048-H-022	loose stud and nut
65	SG-048-H-023	loose jam nut
43	SG-036-H-013	movement in hot direction
58	SG-008-H-020	insufficient travel margin (use as is MNCR # 93-SG-2076)

The rejectable surface indications detected were removed by filing/grinding as per the requirement of each individual Material Nonconformance Report (MNCR). 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 loose bolting on the pipe supports were tightened





as per the requirements of the individual MNCR's. Support components which were rejected due to improper settings or whose margin of travel was insufficient were either reworked and reexamined per the individual MNCR's, or determined to "use as is" per the individual MNCR's. The rejected nut on PSV201 and the rejected bolt on hanger SG-045-H-013 were replaced per the individual MNCR's. The low fluid reservoir on item 42-42 was reworked per the individual MNCR. The two UT linear indications on item 5-1 were determined to "use as is" per the individual MNCR. The two cracked welds on hangers SG-036-H-011 and SG-042-H-011 were repaired per the individual MNCR.

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
RT:	Radiographic Testing
SD:	Shutdown
SDCHX:	Shutdown Cooling Heat Exchanger
SG:	Steam Generator
SI:	Safety Injection
SNUB. REDUC:	Snubber Reduction Program
UT:	Ultrasonic Testing



# APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
AHE5.11 & AHE5.12	51 Bypass V180	Two	20	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	9*	9*	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	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 WEST	One	12	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	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					47-29	88-2134	88-2058		
					47-30	88-2271	88-2112		
		Two	0		47-4	93-2258	93-2219		
					47-8	93-2278	93-2219		
					47-12	93-2259	93-2219		
					47-16	93-2277	93-2219		
					47-20	93-2260	93-2219		
48 MS SG 1 EAST		Two	12	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		
					48-4	93-2261	93-2218		
					48-8	93-2262	93-2218		
					48-12	93-2326	93-2218		
					48-16	93-2263	93-2218		
					48-20	93-2264	93-2218		
49 MS SG 2 EAST		Two	0		49-4	93-2265	93-2217		
					49-8	93-2266	93-2217		
					49-12	93-2267	93-2217		
					49-16	93-2268	93-2217		
					49-20	93-2398	93-2217		
50 MS SG 2 WEST		Two	0		50-4	93-2269	93-2235		
					50-8	93-2271	93-2235		
					50-12	93-2270	93-2235		
					50-16	93-2272	93-2235		
					50-20	93-2273	93-2235		
51 Atmos Dump SG 1		One	13	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



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
		Two	14	14	51-88	90-2305	90-2300		PSE/Block valve
					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		
					52-3	90-2237	90-2107		
					52-85	90-2306	90-2301		PSE/Block valve
					52-86	90-2307	90-2301		PSE/Block valve
					52-87	90-2308	90-2301		PSE/Block valve
					52-88	90-2309	90-2301		PSE/Block valve
52 Atmos Dump SG 2	One	0			56-1	90-2250	90-2255		
					56-4	90-2251	90-2255		
					56-6	90-2248	90-2255		
					56-7	90-2249	90-2255		
					56-9	91-2305	91-2300		
					56-11	91-2304	91-2299		
					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
56 FW SG 1	One	4	4		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		
					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 Downcomer FW SG 1	One	9	9		60-6	91-2393	91-2384		Reject (surf)
							91-2537		Re-exam
					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		
					66-1	88-2121	88-2109		
					66-2	88-2121	88-2109		
61 Downcomer FW SG 2	Two	5	5						
66 Blowdown SG 1	One	10	10						



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					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		
		Two	6	6	66-10	93-2379	93-2212		
						93-2380			
					66-11	93-2242	93-2212		
					66-12	93-2381	93-2212		
						93-2382			
					66-13	93-2383	93-2212		
						93-2384			
					66-14	93-2243	93-2212		
					66-15	93-2385	93-2212		
						93-2386			
	67 Blowdown SG 2	Two	6	6	67-7	93-2244	93-2213		
					67-8	93-2246	93-2213		
					67-9	93-2387	93-2213		
						93-2388			
					67-10	93-2247	93-2213		
					67-11	93-2248	93-2213		
					67-12	93-2249	93-2213		
AHE 5.31 & AHE5.32	47 MS SG 1 WEST	One	7	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 EAST	Two	9	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		
					48-23	91-2255	91-2250		
					48-27	91-2296	91-2249		
					48-34	91-2293	91-2251		
					48-35	91-2258	91-2248		
B 1.22	02 Closure Head	One	33%	33%	2-4	88-2375	88-2346		60" total accessible length examined
						88-2373	88-2346		
						88-2372	88-2346		
		Two	33%	33%	2-4	93-2204			62" total accessible length examined
						93-2237			
						93-2239			
B 1.30	01 Reactor Vessel	One	50%	50%	1-14	*			*Seperate Report by Westinghouse examined 0°-180°
B 1.40	02 Closure Head	One	33%	33%	2-1	88-2371	88-2346		



# APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 2.11 & B2.12	05 PZR	Two	33%	33%	2-1	88-2374	88-2346		examined 0'-16'
						88-2376	88-2346		
						93-2203	93-2200		examined 15'-32'
						93-2205	93-2214		
		One	33%	33%	5-2	93-2238			
						88-2362	88-2343		examined 1'5"-14'
						88-2358	88-2343		
						88-2366	88-2343		
		Two	33%	33%	5-2	93-2240	93-2222		examined 14' thru 0'to 2'
						93-2365	93-2222		
						93-2285	93-2222		
						88-2364	88-2343		examined 1'5"-11'8"
		One	33%	33%	5-8	88-2361	88-2343		
						88-2360	88-2343		
		Two	33%	33%	5-8	93-2466			
						93-2467			
						93-2470			
						93-2471			
					5-6	93-2472			
						93-2473			
						93-2415			Long Seam of 5-8 72" total length examined
						93-2419			
						93-2424			
						93-2465			
						93-2468			
						93-2469			
					5-7	93-2408			Long Seam of 5-8 (only 11" of weld examined)
						93-2416			
						93-2420			
						90-2395			
B 2.31	03 SG 1	One	1	1	3-5	90-2396			
						90-2397			
						90-2397			
		Two	1	1	3-2	93-2036			
						93-2039			
	04 SG 2	One	1	1	4-2	93-2057			
						90-2319			
						90-2320			
		Two	1	1	4-5	90-2321			
						93-2045			
B 2.32	03 SG 1	One	4	4	3-10	93-2051			
						93-2066			
						90-2401			
					3-11	90-2402			
						90-2403			
						90-2404			
					3-12	90-2405			
						90-2406			
						90-2407			
					3-13	90-2408			
						90-2409			
						90-2410			





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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
						90-2411			
						90-2412			
		Two	2	2	3-3	93-2028			
						93-2031			
						93-2035			
					3-4	93-2029			
						93-2032			
						93-2034			
	04 SG 2	Two	4	4	4-10	93-2047			
						93-2062			
					4-11	93-2048			
						93-2063			
					4-12	93-2049			
						93-2064			
					4-13	93-2070			
						93-2050			
						93-2065			
						93-2071			
B 2.40	03 SG 1	One	1	1	3-6	90-2398			
						90-2399			
	04 SG 2	Two	1	1	4-6	90-2400			
						93-2046			
						93-2061			
						93-2067			
B 3.90 & B3.100	01 Reactor Vessel	One	2	2	1-15	*			*Seperate Report by Westinghouse
B 3.110	05 PZR	One	2	2	1-18	*			
					5-11	88-2359	88-2343		
						88-2365			
						88-2363			
					5-9	88-2353			
						88-2356			
						88-2354			
		Two	2	2	5-10	93-2406			
						93-2413			
						93-2417			
					5-13	93-2407			
						93-2414			
						93-2418			
B 3.120	05 PZR	One	2	2	5-11	88-2355			Inner Radius
					5-9	88-2357			Inner Radius
		Two	2	2	5-10	93-2421			Inner Radius
						93-2422			Inner Radius
					5-13	93-2423			Inner Radius
B 3.130	03 SG 1	One	1	1	3-9	90-2353			
						90-2354			
						90-2355			
		Two	1	1	3-7	93-2027			
						93-2030			
						93-2033			



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per.	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 3.140	04 SG 2	One	1	1	4-9	90-2334			
						90-2335			
						90-2336			
	03 SG 1	Two	1	1	4-7	93-2058			
						93-2059			
						93-2060			
B 4.12	03 SG 1	One	1	1	3-9	90-2356			Inner Radius
		Two	1	1	3-7	93-2044			Inner Radius
	04 SG 2	One	1	1	4-9	90-2337			Inner Radius
		Two	1	1	4-7	93-2043			Inner Radius
B 4.13	02 Closure Head	One	8	8	CEDM			90-2456	
		Two	8	8	CEDM			92-2001	
B 4.20	01 Reactor Vessel	One	5	5	ICI			90-2456	
		Two	5	5	ICI			92-2001	
B 5.40	05 PZR	One	3	3	HTRS			90-2297	
								90-2456	
	20 PZR Surge	Two	3	3	HTRS			92-2001	
		One	2	2	5-34	88-2367	88-2352		
B 5.130	31 PZR Safety				5-29	88-2316	88-2309		
		Two	2*	2*	5-33	93-2403	93-2400	93-2312	
	29 PZR Spray					93-2405			
						93-2632			
B 5.140	31 PZR Safety	Two	2*	2*	5-31	93-2223	93-2199		RT Supplemental *Required between 2 zones
						93-2438			
	21 SD Cooling 1	One	1	1	6-11	90-2376	90-2366		
		One	1	1	9-10	90-2448	90-2452		
B 6.10	22 SD Cooling 2	Two	1	1	7-9	93-2281	93-2129		
						93-2282			
	25 Safety Injection 2A					93-2283			
		Two	1	1	13-10	93-2158	93-2128		
B 6.30	27 PZR Spry 1A					93-2162			
		One	1	1	9-11	90-2380	90-2367		
	32 Drain Line 1A	One	1	1	8-18		88-2312		
		Two	1	1	10-18		91-2348		
B 6.50	28 PZR Spray 1B	Two	1	1	11-11		93-2600		
					28-45		93-2600		
	37 Charging Line	Two	1	1	13-11	93-2631	93-2012		RT Supplemental
		One	9	9	35-43		90-2433		
B 6.180	02 Closure Head Nuts	Two	27	27	44-54, 1-17		91-2488		
							91-2489		
	02 Closure Head Studs	One	9	9	34-42	90-2431	90-2432		
		Two	27	27	44-54, 1-17	91-2471	91-2479		
B 6.50	02 Closure Head Washers						91-2480		
							91-2481		
	16 RCP 1A Flange	One	9	9	35-43		90-2434		
		Two	27	27	44-54, 1-17		91-2483		
B 6.180	16 RCP 1A Flange	One	5	5	1-16	88-2386	88-2382	88-2384	
								90-2292	
								90-2296	



# APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 6.190	17 RCP 1B Flange Studs	Two	5	5	1-16	93-2287		93-2303	
		One	5	5	1-16	88-2387	88-2383	88-2385 90-2292 90-2296	
	18 RCP 2A Flange Studs	Two	5	5	1-16	93-2286		93-2304	
		One	5	5	1-16	88-2393	88-2391	88-2389 90-2292 90-2296	
	19 RCP 2B Flange Studs	Two	5	5	1-16	93-2288		93-2302	
		One	5	5	1-16	88-2394	88-2392	88-2390 90-2292 90-2296	
	18 RCP Flange 17	Two	5	5	1-16	93-2289		93-2301	
		One	1	1				88-2406 90-2238	RCP 2A RCP 1B
	16 RCP 1A Nuts & Rings	One	5	5	1-16			88-2413	
		One	5	5	1-16			88-2414	
B 6.200	17 RCP 1B Nuts & Rings	One	5	5	1-16			88-2415	
	18 RCP 2A Nuts & Rings	One	5	5	1-16			88-2416	
	19 RCP 2B Nuts & Rings	One	5	5	1-16			93-2303	
	16 RCP 1A Nuts & Rings	Two	5	5	1-16			93-2304	
	17 RCP 1B Nuts & Rings	Two	5	5	1-16			93-2302	
	18 RCP 2A Nuts & Rings	Two	5	5	1-16			93-2301	
	19 RCP 2B Nuts & Rings	Two	5	5	1-16				
	05 PZR (studs & nuts)	One	20	20	20		88-2410	88-2409	IEB 82-02 (surface)
					1 Stud			88-2412	PSE
		Two	20	20	20			91-2491	
B 7.20					19		93-2166	93-2165	1 stud destroyed not examined. IEB 82-02 (surface)
					1 Stud			93-2548	PSE
					20 Nuts			93-2669	PSE
	03 SG 1 (studs & nuts)	One	40	40	40	88-2388		88-2405	IEB 82-02 (surface)
					5 Studs			88-2411	PSE
					20			90-2298	
					20			90-2362	
		Two	40	40	40			91-2469	
					40	93-2253		93-2207	IEB 82-02 (surface)
	04 SG 2 (studs & nuts)	One	40	40	40	88-2388		88-2405	Reject 1 stud IEB 82-02 (surface)
B 7.30					1 Stud			88-2411	PSE
					20			90-2299	
					20			90-2322	
		Two	40	40	40			91-2484	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 7.50	31 PZR (studs & nuts)	One	1	1	1 Stud			91-2504	PSE
					40		93-2254	93-2206	IEB 82-02 (surface)
					PSV200			88-2220	
								88-2396	PSE
					PSV201		90-2333	90-2332	
								88-2396	PSE
					PSV202		90-2333	90-2332	
								88-2396	PSE
					PSV203		90-2333	90-2332	
								88-2396	PSE
							90-2333	90-2332	
					PSV200			91-2506	
					PSV201			91-2506	
					PSV202			91-2506	
B 7.60	37 Charging Line Flange	One	1	1	PSV203			91-2506	
					PSV200			93-2164	
					PSV201			93-2164	reject 1 nut
					PSV201			93-2377	PSE
					PSV202			93-2164	
					PSV203			93-2164	
					V435			88-2326	
					1-16			88-2417	
					1-16			91-2266	
					1-16			88-2418	
					1-16			91-2266	
					1-16			88-2419	
					1-16			91-2266	
					1-16			88-2420	
B 7.70	21 SD Cooling Loop 1 22 SD Cooling Loop 2	One	1	1	1-16			91-2266	
					V653			88-2201	
					V654			90-2252	
					V652			93-2107	
					V237			90-2443	
					V235			93-2634	
					V634			93-2037	
					V543			88-2165	
					V245			93-2010	
					V644			93-2010	
					V540			88-2401	
					V217			93-2543	
					V225			88-2169	
					V541			93-2011	
B 7.70	23 Safety Injection 1A 24 Safety Injection 1B	One	1	1	V624			93-2011	
					V100E			93-2412	
					V241			88-2210	
					V242			88-2210	
					V100F			93-2313	
					PSV200			88-2220	
					PSV202			91-2525	
					V234			88-2328	
					2-2				
					2-2				
					2-2				
					2-2				
					2-2				
					2-2				
					2-2				
B 7.70	25 Safety Injection 2A 26 Safety Injection 2B	One	1	1	2-2				
					2-2				
					2-2				
					2-2				
					2-2				
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					2-2				
B 7.70	27 PZR Spray 1A 28 PZR Spray 1B	One	1	1	2-2				
					2-2				
					2-2				
					2-2				
					2-2				
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					2-2				
					2-2				
					2-2				
					2-2				
B 7.70	31 PZR Safeties	One	1	1	2-2				
					2-2				
					2-2				
					2-2				
					2-2				
					2-2				
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B 7.70	32 Drain Line 1A	One	1	1	2-2				
					2-2				
					2-2				
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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	33 Drain Line 1B	Two	2	2	V334 V235 V335			88-2328 91-2335 91-2335	
	34 Drain Line 2A	Two	2	2	V233 V333			91-2334 91-2346	
	37 Charging Line	One	1	1	V240			88-2221	
	38 Loop 1 Drain	One	1	1	V215			90-2369	
	39 HPSI 1	One	1	1	V523			90-2287	
		Two	1	1	V522 V957			91-2262 92-2002	
	40 HPSI 2	Two	1	1	V532			91-2401	
B 7.80	02 Closure Head	One	1	1	CEDM 92 CEDM 96			90-2150 90-2150	
B 8.20	05 PZR	One	33%	33%	5-1	90-2293	88-2343		examined 2'-16'
						90-2294			
		Two	33%	33%	5-1	90-2295 93-2294 93-2295 93-2296 93-2333 93-2334 93-2354	93-2222		examined 14' thru 0' to 2' (surface) examined 360° (volumetric) use as ls per MNCR 93-RC-2027 examined 360°
B 8.30	03 SG 1	One	33%	33%	3-1	90-2357 90-2351 90-2352			
	04 SG 2	Two	33%	33%	4-1	93-2040 93-2041 93-2042	93-2013		examined 120° thru 240°
B 9.11 &B9.12	06 RCS Piping	One	7	7	17-2 1-30 1-27 3-30 4-30 6-7 7-7	90-2441 90-2438 90-2437 90-2361 90-2345 90-2439 90-2440	90-2379 90-2436 90-2435 90-2363 90-2328 90-2435 90-2436		
		Two	6	6	16-1	93-2086 93-2150 93-2155	93-2078		
					9-1	93-2149 93-2152 93-2154	93-2077		
					17-1	93-2085 93-2151 93-2156	93-2075		
					11-1	93-2087 93-2153 93-2157	93-2076		
					18-1	93-2142 93-2145 93-2183	93-2075		
					13-1	93-2144	93-2076		



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
						93-2147			
						93-2184			
					19-1	93-2143	93-2054		
						93-2146			
						93-2182			
					15-1	93-2148	93-2055		
						93-2163			
						93-2185			
					3-28	93-2178	93-2276		Reject (surf)
						93-2179			
						93-2195			
							93-2461		Re-exam
					6-1	93-2193	93-2399		
						93-2194			
						93-2196			
					4-28	93-2137	93-2056		
						93-2233			
						93-2256			
					7-1	93-2138	93-2052		
						93-2232	93-2053		
						93-2257			
20 PZR Surge		One	1	1	20-1	88-2368	88-2352		
21 SD Cooling 1		One	2	2	21-18	90-2377	90-2366		
					21-20	90-2378	90-2366		
		Two	2	2	21-14	91-2349	91-2340		
					21-15	91-2350	91-2339		
22 SD Cooling 2		One	2	2	22-11	90-2257	90-2253		
					22-14	90-2258	90-2256		
					22-23		90-2253		UT inaccess (added weld 22-14 to program)
		Two	2	2	22-17	91-2386	91-2374		
					22-1	93-2280	93-2130		
23 Safety Injection 1A		One	3	3	23-1	90-2449	90-2452		
					23-2	90-2450	90-2452		
					23-4	90-2451	90-2452		
24 Safety Injection 1B		Two	3	3	24-14	91-2306	91-2264		
					24-16	91-2307	91-2265		
					24-19	91-2308	91-2252		
25 Safety Injection 2A		One	2	2	25-26	88-2298	88-2267		
					25-29	88-2299	88-2268		
		Two	3	3	25-1	93-2159	93-2131		
						93-2202			
					25-4	93-2160	93-2131		
					25-6	93-2161	93-2131		
26 Safety Injection 2B		One	2	2	26-9	88-2293	88-2259		
					26-11	88-2292	88-2259		
		Two	1	1	26-17	91-2403	91-2380		
29 Combined PZR Spray		One	2	2	29-10	88-2318	88-2315		
					29-11	88-2319	88-2377		
						90-2241	90-2239		



## APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.21 &B9.22	31 PZR Safeties	Two	1	1	29-1	93-2404	93-2400		
		One	1	1	31-1	88-2317	88-2309		
		Two	2	2	31-9	93-2221	93-2198		
					31-10	93-2220	93-2198		
	36 Letdown	Two	1	1	36-75	93-2441	93-2426		
	27 PZR Spray 1A	One	3	3	27-42		90-2367		
					27-43		90-2367		
					27-44		90-2367		
		Two	3	3	27-8		93-2305		
					27-10		93-2305		
					27-16		93-2305		
		One	4	4	28-31		88-2342		
					28-32		88-2342		
					28-39		88-2341		
					28-40		88-2341		
		Two	3	3	28-9		93-2306		
					28-11		93-2306		
	30 Aux PZR Spray	One	2	2	28-20		93-2306		
					30-1	90-2242	90-2240		Vol/IEB 88-08
						90-2243			PIPE ALSO
					30-2	90-2242	90-2240		Vol/IEB 88-08
						90-2243			PIPE ALSO
					30-7		88-2310		
					30-13		88-2310		
		Two	2	2	30-1		91-2360		
					30-2		91-2360		
					30-7		91-2359		
					30-13		91-2359		
					30-5		93-2215		
					30-6		93-2215		
	32 Drain Line 1A	One	2	2	32-1		88-2313		
					32-2		88-2314		
	33 Drain Line 1B	Two	2	2	33-1		91-2348		
					33-5		91-2347		
	36 Letdown	One	4	4	36-8		88-2348		
					36-9		88-2348		
					36-28		88-2350		
					36-35		88-2350		
		Two	6	6	36-25		93-2426		
					36-26		93-2426		
					36-43		93-2426		
					36-44		93-2426		
	37 Charging				36-45		93-2426		
					36-80		93-2426		
		One	5	5	37-41		88-2324		
					37-42		88-2324		
					37-43		88-2324		
					37-45		88-2325		
					37-47		88-2325		
		Two	6	6	37-28		93-2106		
					37-29		93-2106		

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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					37-30		93-2106		Reject
							93-2352		Re-exam
					37-32		93-2012		
					37-33		93-2012		
					37-34		93-2012		
	38 Drain Loop 1	Two	1	1	38-1		93-2211		
					38-2		93-2366		
					38-3		93-2366		
	39 HPSI Loop 1	One	2	2	39-1		88-2291		
					39-5		88-2291		
		Two	3	3	39-12		91-2253		
					39-13		91-2253		
					39-24		91-2263		
	40 HPSI Loop 2	One	3	3	40-1		90-2254		
					40-2		90-2254		
					40-3		90-2254		
		Two	2	2	40-6		91-2402		
					40-7		91-2402		
B 9.31	06 RCS Piping	One	1	1	9-8	90-2447	90-2446		
		Two	1	1	13-8	93-2139	93-2075		
						93-2140			
						93-2197			
B 9.32	06 RCS Piping	One	1	1	8-17		88-2312		
		Two	1	1	13-9		93-2075		
	22 SD Cooling 2	One	1	1	22-7A		90-2253		
	36 Letdown	Two	2	2	36-41		93-2426		
					36-76		93-2426		
B 9.40	32 Drain Line 1A	One	1	1	32-6		88-2314		
	33 Drain Line 1B	Two	1	1	33-6		91-2347		
					33-8		91-2361		
					33-9		91-2341		
	34 Drain Line 2B	Two	1	1	34-6		91-2329		
					34-8		91-2329		
					34-9		91-2329		
	38 Drain Line Loop 1	One	1	1	38-5		90-2370		
B 10.10	22 SD Cooling	Two	1	1	SI-193-H23		91-2377		
	26 Safety Injection 2B	One	1	1	SI-179-H10		88-2266		
	36 Letdown	One	1	1	RC-91-H5		88-2345		
		Two	1	1	RC-91-H6		93-2440		
B 12.20	16 RCP Casing	One	1	1	RCP 2A			88-2395	
	17 RCP Casing	One	0		RCP 1B			90-2238	
B 13.10	01 Reactor Vessel	One	100%	100%	Acc Areas			88-2407	
								88-2408	
		Two	100%	100%	Acc Areas			91-2531	
B 14.10	02 Closure Head	One	2	2	9-76	88-2398			
					9-83	88-2397			
		Two	2	2	9-78	93-2459			
					9-88	93-2453			
		One	2	2	10-76	88-2400			
					10-83	88-2399			
		Two	2	2	10-78	93-2455			



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
B15.10	1,2 Reactor Vessel	One Two	All All	All All	10-88 Press Bound Press Bound	93-2454	* 92-2001 93-2672		
B15.20	5 PZR	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
B15.30	3 SG 1	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		*88-2424 90-2001 AND 90-2456
	4 SG 2	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
B15.50	All RCS Piping	One Two	All All	All All	Class 1 Class 1		* 92-2001 93-2672		
B15.60	16 RCP 1A	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
	17 RCP 1B	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
	18 RCP 2A	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
	19 RCP 2B	One Two	All All	All All	Press Bound Press Bound		* 92-2001 93-2672		
B 15.70	ALL RCS Valves	One Two	All All	All All	Class 1 Class 1		* 92-2001 93-2672		
BFLYWH	16 RCP 1A Flywheel	One	1	1		89-1001** 89-1002**			**FLYWHEELS MOVED FROM UNIT 1 DURING THIS OUTAGE
	17 RCP 1B Flywheel	One	1	1		89-1005** 89-1006**			
	18 RCP 2A Flywheel	One	1	1		89-1007** 89-1008**			
	19 RCP 2B Flywheel	One	1	1		89-1003** 89-1004**			
	16 RCP 1A Flywheel	Two	1	1		93-2392 93-2396			
	17 RCP 1B Flywheel	Two	1	1		93-2391 93-2395			
	18 RCP 2A Flywheel	Two	1	1		93-2389 93-2393			
	19 RCP 2B Flywheel	Two	1	1		93-2390 93-2394			
BIWF	3 SG 1	One	1	1	3-40			88-2421	
	4 SG 2	Two	1	1	4-40			93-2410	
	16 RCP 1A	One	2	2	16-17			88-2333	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks				
17 RCP 1B	Two	4	4	16-18				88-2334					
				16-12				91-2267					
				16-13				91-2267					
				16-14				91-2267					
				16-15				91-2267					
	One	2	2	17-17				88-2340					
				17-18				88-2339					
				17-12				91-2268					
				17-13				91-2268					
				17-14				91-2268					
18 RCP 2A	One	4	4	17-15				91-2268					
				18-12				88-2332					
				18-13				88-2332					
				18-14				88-2332					
				18-15				88-2332					
	Two	2	2	18-17				91-2272					
				18-18				91-2272					
				19 RCP 2B	One	4	4	19-12				88-2338	
								19-13				88-2338	
								19-14				88-2338	
19-15								88-2338					
20 PZR Surge	Two	2	2					19-17				91-2273	
				19-18				91-2273					
	One	2	2	RC-28-H1				88-2336					
								89-2004					
				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				
21 SD Cooling 1	Two	2	2	RC-28-H844				89-2003	IEB 88-11				
				RC-28-H842				91-2270					
				RC-28-H843				91-2269					
				RC-28-H844				91-2271					
				One	7	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					
	22 SD Cooling 2	Two	7	7	SI-240-H11				88-2163				
SI-240-H13								88-2164					
RC-51-H4								91-2274					
RC-51-H5								91-2275					
SI-240-H2								91-2277					
One		4	4	SI-240-H12				91-2276					
				SI-240-H822				91-2282					
				SI-240-H823				91-2284					
				SI-240-H824				91-2283					
				RC-68-H5				90-2259					



# APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					RC-68-H6			90-2260	
					SI-193-H17			90-2261	
					SI-193-H19			90-2262	
		Two	5	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	
								93-2628	PSE
23	Safety Injection 1A	One	2	2	SI-207-H3			90-2444	
					SI-207-H5			90-2445	
		Two	2	2	SI-207-H3			91-2530	PSE-SNUB. REDUC.
					SI-207-H7			93-2117	
					SI-207-H11			93-2368	
24	Safety Injection 1B	One	2	2	SI-223-H3			88-2166	
					SI-223-H4			88-2380	
		Two	2	2	SI-223-H1			91-2285	
					SI-223-H1			91-2511	PSE-SNUB. REDUC.
					SI-223-H2			91-2286	
25	Safety Injection 2A	One	2	2	SI-156-H7			88-2402	
					SI-156-H9			88-2168	
		Two	3	3	SI-160-H1			93-2089	
					SI-160-H2			93-2090	DCN-REMOVED
					SI-160-H3			93-2091	DCN-REMOVED
26	Safety Injection 2B	One	3	3	SI-179-H9			88-2170	
					SI-179-H10			88-2171	
					SI-179-H11			88-2172	
		Two	3	3	SI-175-H21			91-2281	
								91-2512	PSE-SNUB. REDUC.
					SI-175-H22			91-2287	
					SI-175-H23			91-2288	
27	PZR Spray 1A	One	9	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	
		Two	9	9	RC-16-H5			93-2118	
					RC-16-H6			93-2020	
					RC-16-H7			93-2021	
					RC-16-H8			93-2105	DCN-REMOVED
					RC-16-H15			93-2353	Reject
								93-2662	Re-exam
					RC-62-H35			93-2038	
					RC-62-H36			93-2017	
					RC-62-H37			93-2018	
					RC-62-H38			93-2019	Reject
								93-2452	Re-exam



# APPENDIX A

## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					RC-62-H34			93-2653	PSE
					RC-62-H33			93-2376	
					RC-62-H32			93-2374	
					RC-62-H31			93-2375	
								93-2439	
					RC-62-H30			93-2655	PSE
					RC-62-H29			93-2432	
								93-2429	
					RC-62-H28			93-2654	PSE
					RC-62-H27			93-2435	
					RC-62-H26			93-2433	
					RC-62-H25			93-2434	
					RC-62-H24			93-2666	
					RC-62-H23			93-2665	
					RC-62-H22			93-2664	
					RC-62-H21			93-2428	
					RC-62-H20			93-2430	
					RC-62-H39			93-2431	
					RC-62-H40			93-2436	
					RC-17-H24			93-2437	
28 PZR Spray 1B	One	8	8		RC-17-H34			88-2335	
					RC-17-H36			88-2211	
					RC-17-H38			88-2212	
					RC-17-H39			88-2213	
					RC-17-H40			88-2214	
					RC-17-H41			88-2215	
					RC-17-H42			88-2216	
	Two	8	8		RC-17-H39			88-2217	
					RC-17-H41			93-2618	PSE
					RC-17-H43			93-2619	PSE
					RC-17-H44			93-2022	
					RC-17-H45			93-2023	
					RC-17-H46			93-2024	
					RC-18-H9			93-2025	
					RC-18-H10			93-2114	
					RC-18-H11			93-2115	
								93-2314	Reject
					RC-18-H12			93-2633	Re-exam
29 PZR Combined Spray	One	2	2		RC-18-H16			93-2116	
	Two	1	1		RC-18-H18			88-2218	
					RC-18-H17			88-2219	
					RC-18-H18			93-2026	
32 Drain 1A	One	2	2		RC-60-HA			93-2656	PSE
					RC-60-HB			88-2256	
33 Drain 1B	Two	2	2		RC-58-HA			88-2173	
					RC-58-HB			91-2343	
34 Drain 2A	Two	2	2		RC-96-HA			91-2345	
					RC-96-HB			91-2344	
36 Letdown	One	9	9		RC-91-H1			91-2342	
					RC-91-H5			88-2351	
								88-2344	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					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	
		Two	10	10	RC-91-H2			93-2445	
					RC-91-H6			93-2444	
					RC-91-HAJ			93-2447	
					RC-91-HAP			93-2446	
					RC-91-HAQ			93-2443	
					RC-91-HP			93-2448	
					RC-91-HQ			93-2442	
					RC-91-HR			93-2650	
					RC-91-HS			93-2651	
					RC-91-HT			93-2652	
37 Charging		One	14	14	CH-5-H2			88-2222	
								90-2368	PSE
					CH-5-H3			90-2223	
					CH-5-H10			88-2224	PSE
					CH-5-H25			88-2225	
					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	
		Two	14	14	CH-5-H9			93-2598	
					CH-5-H13			93-2093	
					CH-5-H16			93-2095	DCN-REMOVED
					CH-5-H17			93-2097	
					CH-5-H18			93-2096	
					CH-5-H19			93-2098	
					CH-5-H20			93-2099	
								93-2620	PSE
					CH-5-H21			93-2101	
					CH-5-H22			93-2100	
					CH-5-H23			93-2103	DCN-REMOVED
					CH-5-H24			93-2102	DCN-REMOVED
					CH-5-H32			93-2279	use as Is MNCR 93-CH-2016
					CH-5-H37			93-2092	
					CH-5-H38			93-2576	PSE
					CH-5-H45			93-2094	DCN-REMOVED
					CH-5-H46			93-2104	DCN-REMOVED





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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 1.10	38 Drain Line Loop 1	Two	0		RC-70-HA			93-2657	PSE
		One	4	4	SI-248-H19			88-2403	PSE
	39 HPSI 1				SI-248-H26			88-2181	
					SI-248-H27			88-2182	
					SI-248-H28			88-2183	
					SI-248-H30			88-2184	
					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	
		Two	5	5	SI-199-H13			90-2263	
					SI-199-H14			90-2264	
					SI-199-H21			90-2265	
					SI-199-H15			91-2369	
					SI-199-H16			91-2368	
	40 HPSI 2	One	3	3	SI-199-H17			91-2367	
								91-2513	Re-exam
	41 SG 1	One	1	1	SI-199-H18			91-2365	
					41-3	90-2416			
						90-2417			
						90-2418			
					41-4	90-2419			
						90-2420			
						90-2421			
		One	1	1	68-7	90-2372			
					68-5	93-2458			
	69 Letdown HT Exch.	One	50%	50%	69-1	88-2330			examined from 12:00
C 1.20	84 SD Cooling 1	Two	50%	50%	74-123	91-2218			examined from 12:00 thru 3:00 to 6:00
						91-2226			
						91-2232			
						90-2422			
						90-2423			
C 1.30	41 SG 1	One	50%	50%	41-5	90-2422			examined 180° thru 360°
						90-2423			
						90-2424			
		One	1	1	68-6	90-2371			examined 180° thru 360°
		One	50%	50%	41-1	90-2413			
						90-2414			
						90-2415			*combination of two welds to obtain 50 % coverage
		Two	*50%	*50%	41-1	93-2601			
						93-2604			
						93-2607			
	42 SG 2	Two	*50%	*50%	42-1	93-2079			
						93-2080			
						93-2081			
	68 Regen HT Exch	Two	2	2	68-1	93-2456			
					68-2	93-2457			
	69 Letdown HT Exch.	One	50%	50%	69-2	88-2329			examined from 12:00 thru 3:00 to 6:00
	84 SD Cooling 1	Two	50%	50%	74-124	91-2219			examined from 12:00 thru 3:00 to 6:00
						91-2224			

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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 2.21 & C2.22	41 SG 1	One	1	1	41-16	91-2231	90-2373	90-2358	
		Two	2	2	41-9	93-2602	93-2575		
						93-2605			
						93-2612			
						93-2614			Inner radius
					41-10	93-2603	93-2575		
						93-2606			
						93-2613			
						93-2615			Inner radius
					41-15	93-2367	93-2327		Extra exam
						93-2359			
	42 SG 2	One	1	1	42-16	90-2350	90-2331		
	84 SD Cooling 1	Two	1	1	74-122	91-2220	91-2204		
						91-2225			
						91-2233			
						91-2203			Inner radius
C 3.10	41 SG 1	One	1	1	41-42		90-2381		
	42 SG 2	Two	1	1	42-42		93-2209		
C 3.20	68 Regen HT Exch						93-2216		
		Two	1	1	68-10		93-2451		
	43 MS SG 1-90	One	1	1	SG-36-H17		88-2287		
		Two	1	1	SG-36-H12		93-2132		
	44 MS SG 1-270	Two	3	3	SG-33-H14		93-2133		
					SG-33-H15		93-2133		
					SG-33-H16		93-2133		
	45 MS SG 2-270	One	3	3	SG-42-H14		88-2378		
					SG-42-H15		88-2378		
					SG-42-H16		88-2379		
	46 MS SG 2-90	Two	1	1	SG-42-H12		93-2170		
		Two	2	2	SG-45-H12		93-2299		
					SG-45-H13		93-2668		
		One	1	1	SG-5-H9		90-2425		
		Two	1	1	AF-18-H1		93-2425		
	64 Blowdown SG 1	One	3	3	SG-39-H15		90-2288		
					SG-39-H17		90-2288		
					SG-53-H1		90-2360		
	65 Blowdown SG 2	Two	1	1	SG-39-H1		93-2597		
		One	2	2	SG-48-H20		90-2289		
					SG-52-H1		90-2344		
		Two	3	3	SG-48-H20		91-2492		
					SG-48-H14		93-2329		
							93-2330		
					SG-48-H16		93-2411		
					SG-48-H26		93-2210		
	71 LPSI Discharge 1	One	1	1	SI-87-H11		88-2038		
	76 CS Suction 1	One	1	1	SI-9-H4		88-2005		
	83 SD Cooling 1	Two	2	2	SI-87-H4		91-2176		
					SI-90-H1		91-2177		
	88 SD Cooling 2	One	1	1	SI-72-H13		88-2065		
	89 LPSI Suction 2	One	1	1	SI-194-H14		88-2068		



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
C 3.30	91 SD Cooling 1	One	4	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	1	SI-241-H21		88-2152		
		Two	2	2	SI-239-H1		91-2221		
					SI-241-H16		91-2237		
	93 CS Discharge 1	Two	1	1	SI-89-H13		91-2470		
	94 SD Cooling 1	Two	2	2	SI-70-H5		91-2016		
					SI-70-H8		91-2026		
	99 LPSI 2B	Two	1	1	SI-174-H13		91-2437		
	100 CSP-LPSI Suct. 1	One	1	1	SI-369-H1		88-2290		
		Two	1	1	84-5		91-2526		
	72 LPSI Pump 1	One	2	2	72-3B		88-2036		
					72-3C		88-2036		
		Two	1	1	72-3A		91-2477		
	75 LPSI Pump 2	Two	3	3	73-3A		91-2495		
					73-3B		91-2495		
					73-3C		91-2498		
	78 CS Pump 1	One	2	2	80-3B		88-2001		
					80-3C		88-2001		
	81 CS Pump 2	Two	1	1	80-3A		91-2493		
		Two	3	3	81-3A		91-2496		
					81-3B		91-2497		
					81-3C		91-2494		
C 4.40	47 MS SG 1 270	One	20	20	V170	88-2251			
	48 MS SG 1 90	One	20	20	V180	88-2252			
	56 FW SG 1	Two	20	20	V132	91-2302			
					V174	91-2303			
C 5.11 & C5.12	58 Aux & FW SG 1	One	1	1	58-1	88-2370	88-2349		
		Two	2(5)	2(5)	58-12	91-2352	91-2332		
					58-13	91-2351	91-2332		
					58-16	91-2353	91-2336		
					58-16A	91-2354	91-2336		
					58-1	93-2360	93-2171		
					58-24	93-2073	93-2015		
					58-25	93-2072	93-2015		
	59 Aux & FW SG 2	One	1	1	59-1	88-2369	88-2347		
		Two	3(5)	3(5)	59-12	91-2356	91-2331		
					59-13	91-2355	91-2330		
							91-2529		
					59-16	91-2358	91-2337		
					59-16A	91-2357	91-2337		
					59-1	93-2361	93-2172		
					59-18	93-2224	93-2002		
					59-24	93-2255	93-2002		
						93-2397			
					59-25	93-2074	93-2002		
C 5.21 & 5.22	43 MS SG 1 90	One	3	3	43-1	88-2306	88-2287		
					43-2	88-2320	88-2287		
					43-22	88-2323	88-2287		

Reject  
Re-exam



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
44 MS SG 1 270	One	3	3	44-26	88-2307	88-2288			
				44-28	88-2308	88-2288			
				44-30	88-2304	88-2288			
45 MS SG 2 270	Two	1	1	44-5	93-2231	93-2133			
				45-1	93-2187	93-2136			
				45-2	93-2186	93-2135			
46 MS SG 2 90	One	2	2	46-25	88-2321	88-2280			
				46-27	88-2322	88-2280			
				46-1	93-2188	93-2134			
	Two	2	2	46-2	93-2189	93-2174			
54 FW SG 1	One	5	5	54-25A	90-2384	90-2359			
				54-27	90-2385	90-2359			
				54-41	90-2245	90-2244			
	Two	7	7	54-49	90-2246	90-2244			
				54-50	90-2247	90-2244			
				41-44	93-2609	93-2599			
				54-1	93-2608	93-2574			
55 FW SG 2	One	5	5	54-2	93-2610	93-2577			
				54-9	93-2180	93-2084			
				54-10	93-2208	93-2084			
	Two	3	3	54-11A	93-2141	93-2082			
				54-59	93-2275	93-2016			
				54-60	93-2274	93-2236			
				42-44	90-2341	90-2330			
				42-43	90-2343	90-2330			
				55-11	90-2338	90-2330			
	Two	3	3	55-12	90-2339	90-2329			
				55-15	90-2340	90-2330			
				55-26	90-2342	90-2329			
				55-38	93-2190	93-2083			
				55-39	93-2191	93-2083			
				55-41	93-2192	93-2083			
58 Aux & FW SG 1	One	3	3	55-45	93-2409	93-2298			
59 Aux & FW SG 2	One	2	2	58-19	88-2297	88-2381			
				58-20	88-2296	88-2289			
				41-39	90-2392	90-2391			
	Two	2	2	59-33	88-2295	88-2258			
				59-34	88-2294	88-2258			
				59-16C	93-2227	93-2001			
62 Aux & FW SG 1	One	1	1						
				59-20	93-2225	93-2001			
				62-24	88-2085	88-2056			
	Two	2	2	62-4		93-2241			
				62-5	93-2290	93-2241			
				62-6	93-2291	93-2402			



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
	63 Aux & FW SG 2	One	1	1	63-4	88-2086	88-2057		
		Two	2	2	63-22	93-2293	93-2234		
					63-23	93-2292	93-2234		
	64 Blowdown SG 1	One	2	2	64-30	90-2374	90-2360		
					64-29	90-2375	90-2360		
		Two	4	4	64-1	93-2357	93-2362		
					64-2	93-2358	93-2328		
					64-8	93-2355	93-2363		
					64-15	93-2356	93-2364		
	65 Blowdown SG 2	One	4	4	65-22	90-2346	90-2344		
					65-24	90-2347	90-2344		
					65-27	90-2348	90-2331		
					65-28	90-2349	90-2331		
		Two	3	3	65-49	93-2228	93-2401		
					65-51	93-2229	93-2173		
					65-52	93-2230	93-2173		
C 7.10	N/A Pressure Vessels	One	All	All	Press Bound			*	*91-2008, 91-2009,
C 7.30	N/A Piping	One	All	All	Press Bound			*	91-2015, 91-2017,
C 7.50	N/A Pumps	One	All	All	Press Bound			*	91-2025, 91-2028,
C 7.70	N/A Valves	One	All	All	Press Bound			*	91-2038, 91-2040
									91-2042, 91-2043
CIWF	41 SG 1	One	2	2	41-41			90-2429	
					41-42			90-2430	
	42 SG 2	Two	2	2	42-41			93-2311	
					42-42			93-2310	Reject
								93-2661	Re-exam
	43 MS SG 1 90	One	3	3	SG-36-H17			88-2281	
					SG-36-H884			88-2282	
					SG-36-H885			88-2283	
		Two	2	2	SG-36-H11			93-2462	Reject
								93-2659	Re-exam
					SG-36-H12			93-2120	
								93-2624	PSE
					SG-36-H13			93-2578	Reject (Extra exam)
								93-2648	Re-exam/PSE
					SG-36-H14			93-2623	PSE
	44 MS SG 1 270	One	2	2	SG-33-H17			88-2237	
					SG-33-H18			88-2238	
		Two	5	5	SG-33-H14			93-2369	
								93-2647	
					SG-33-H15			93-2370	
								93-2630	PSE
					SG-33-H16			93-2371	
					SG-33-H881			93-2372	
					SG-33-H882			93-2373	
					SG-33-H13			93-2449	
								93-2671	PSE
	45 MS SG 2 270	One	3	3	SG-42-H12			88-2422	PSE
					SG-42-H14			88-2266	
					SG-42-H15			88-2285	
					SG-42-H16			88-2284	





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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks			
46 MS SG 2 90		Two	3	3	SG-42-H11			93-2463	Reject			
								93-2660	Re-exam			
						SG-42-H12			93-2175			
						SG-42-H13			93-2176			
						SG-42-H15			93-2625	PSE		
		One	2	2	SG-45-H17			88-2339				
					SG-45-H18			88-2240				
		Two	5	5	SG-45-H11			93-2177				
					SG-45-H12			93-2201				
					SG-45-H13			93-2169	Reject			
								93-2621	PSE (stud and 2 nuts only)			
								93-2649	Re-exam/PSE			
								93-2670	PSE			
						SG-45-H15			93-2663	PSE		
						SG-45-H887			93-2167			
						SG-45-H888			93-2427			
		47 MS SG 1 270	One	1	1	SG-206-H1			88-2075			
		48 MS SG 1 90	Two	1	1	SG-207-H1			91-2416			
		51 ADV # 1	One	1	1	SG-59-H6			88-2076			
		53 Steam to Aux FW		Two	1	1	SG-70-H6			90-2108		
										91-2536		
				One	4	4	SG-81-H1			88-2077		
							SG-81-H2			88-2379		
							SG-83-H1			88-2078		
							SG-83-H2			88-2074		
				Two	2	2	SG-81-H4			91-2406		
					SG-83-H4			91-2407				
54 FW SG 1	One			7	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					
55 FW SG 2		One	9	9	SG-2-H14			90-2269				
					SG-2-H15			90-2270				
					SG-2-H803			90-2383				
					SG-2-H806			90-2002				
					Two	7	7	SG-13-H1			93-2108	
								SG-13-H802			93-2112	
								SG-2-H10			93-2110	
								SG-2-H11			93-2111	
								SG-2-H806			93-2673	
								SG-2-H811			93-2113	
								SG-2-H9			93-2109	
								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						



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					SG-5-H812			90-2315	
					SG-14-H1			90-2316	
					SG-14-H804			90-2317	
		Two	7	7	SG-5-H4			90-2318	
					SG-5-H5			93-2121	
					SG-5-H6			93-2122	
					SG-5-H7			93-2123	
					SG-5-H8			93-2124	
					SG-5-H13			93-2125	
					SG-5-H14			93-2127	Reject
								93-2551	Re-exam
								93-2126	
								93-2629	
56 FW SG 1		Two	1	1	SG-202-H1			91-2301	
58 Aux & FW SG 1		One	7	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	
					SG-8-H903			90-2427	
		Two	7	7	SG-8-H20			91-2376	
					SG-8-H6			93-2345	
					SG-8-H7			93-2347	
					SG-8-H8			93-2003	
					SG-8-H9			93-2006	
					SG-8-H10			93-2007	
					SG-8-H11			93-2008	
					SG-8-H17			93-2346	
					SG-8-H20			93-2622	PSE-use as is
									MNCR 93-SG-2076
59 Aux & FW SG 2		One	6	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	
		Two	6	6	SG-11-H13			93-2626	
					SG-11-H14			93-2005	
					SG-11-H15			93-2004	
					SG-11-H16			93-2014	
					SG-11-H18			93-2009	
					SG-11-H19			93-2627	
60 Downcomer FW SG 1	One		1	1	SG-200-H9			88-2404	
61 Downcomer FW SG 2	Two		2	2	SG-203-H13			91-2414	
					SG-203-H14			91-2415	
62 Aux FW SG 1	One		1	1	AF-4-H3			88-2053	
	Two		1	1	AF-18-H1			93-2309	
63 Aux FW SG 2	One		2	2	AF-6-H2			88-2055	
					AF-16-H1			88-2054	
	Two		2	2	AF-6-H3			93-2307	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
64 Blowdown SG 1	One	12	12		AF-6-H5			93-2308	
					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	
	Two	13	13		SG-39-H1			93-2348	
					SG-39-H2			93-2350	
					SG-39-H3			93-2337	Reject
								93-2550	Re-exam
					SG-39-H4			93-2338	
					SG-39-H5			93-2343	Reject
								93-2549	Re-exam
					SG-39-H6			93-2341	
					SG-39-H27			93-2335	
					SG-39-H922			93-2349	
					SG-53-H3			93-2340	
					SG-53-H4			93-2336	
					SG-53-H5			93-2342	
					SG-53-H6			93-2344	
					SG-53-H7			93-2339	
65 Blowdown SG 2	One	12	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	11		SG-48-H20			91-2508	
					SG-48-H13			93-2319	
					SG-48-H14			93-2320	
					SG-48-H15			93-2317	
					SG-48-H16			93-2318	
					SG-48-H17			93-2316	Reject
								93-2580	Re-exam
					SG-48-H18			93-2315	
					SG-48-H22			93-2464	Reject
								93-2616	Re-exam
					SG-48-H23			93-2501	Reject



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
								93-2617	Re-exam
					SG-48-H24			93-2323	
					SG-48-H25			93-2322	
					SG-48-H26			93-2321	
68 Reg HT Exch.	Two	1	1	1	68-10			93-2596	
70 LPSI A Suction	One	1	1	1	SI-67-H4			88-2027	
71 LPSI A Discharge	One	1	1	1	SI-87-H11			88-2026	
	Two	5	5	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	
								91-2539	Re-exam
72 LPSI Pump A	One	2	2	2	72-3B			88-2025	
					72-3C			88-2025	
	Two	1	1	1	72-3A			91-2490	
73 LPSI B Suction	Two	1	1	1	SI-308-H14			91-2169	
75 LPSI B Discharge	Two	1	1	1	73-3A			91-2499	
					73-3B			91-2499	
					73-3C			91-2499	
76 CS Pump A Suction	One	1	1	1	SI-9-H4			88-2002	
77 CS Pump A Disch.	One	4	4	4	SI-79-H1			88-2010	
					SI-79-H2			88-2009	
					SI-79-H3			88-2008	
					SI-79-H4			88-2007	
	Two	3	3	3	SI-79-H5			91-2153	
					SI-79-H6			91-2160	
					SI-82-H2			91-2171	
78 CS Pump A	One	2	2	2	80-3B			88-2003	
					80-3C			88-2003	
	Two	1	1	1	80-3A			91-2501	
79 CS Pump B Suction	One	3	3	3	SI-34-H1			88-2253	
					SI-34-H2			88-2254	
					SI-34-H3			88-2255	
	Two	2	2	2	SI-33-H4			91-2151	
					SI-33-H3			93-2300	
80 CS Pump B Disch.	One	3	3	3	SI-119-H7			88-2045	
					SI-119-H8			88-2044	
					SI-119-H9			88-2046	
	Two	4	4	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	1	1	81-3A			91-2500	
					81-3B			91-2500	
					81-3C			91-2500	
82 SD Cooling A	One	2	2	2	SI-78-H5			88-2022	
					SI-79-H10			88-2006	
83 SD Cooling A	One	4	4	4	SI-87-H9			88-2021	
					SI-89-H1			88-2012	





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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
85 SD Cooling B	One	Two	3	3	SI-89-H2			88-2014	PSE
					SI-89-H3			88-2013	
					SI-87-H4			91-2174	
					SI-90-H1			91-2179	
					SI-90-H2			91-2139	
					SI-87-H8			93-2635	
					SI-119-H10			88-2050	
	Two	Six	6	6	SI-123-H6			88-2041	
					SI-123-H7			88-2043	
					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	
86 SD Cooling B	One	Three	3	3	SI-123-H8			91-2148	
					SI-129-H10			88-2048	
					SI-129-H11			88-2047	
					SI-129-H12			88-2051	
	Two	Seven	7	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	
					SI-135-H3			91-2164	
88 LPSI B	One	Eight	8	8	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	
					SI-73-H1			88-2067	
					SI-73-H2			88-2072	
	Two	Zero	4	4	SI-73-H3			88-2073	
					SI-72-H20			93-2636	PSE
					SI-194-H12			88-2059	
					SI-194-H13			88-2060	
					SI-194-H14			88-2061	
					SI-194-H23			88-2062	
					SI-134-H9			91-2144	
90 CS B	Two	Two	2	2	SI-134-H10			91-2150	
					SI-70-H9			88-2148	
91 LPSI A	One	Seven	7	7	SI-70-H10			88-2151	
					SI-70-H11			88-2160	
					SI-70-H12			88-2150	
					SI-70-H13			88-2161	
					SI-70-H15			88-2149	
					SI-70-H16			88-2159	
	Two	Two	2	2	SI-71-H2			91-2156	
					SI-71-H3			91-2157	
92 LPSI A	One	Five	5	5	SI-239-H3			88-2155	
					SI-241-H12			88-2156	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
93 CS Discharge 1		Two	5	5	SI-241-H14			88-2158	Re-exam
					SI-241-H15			88-2154	
					SI-241-H21			88-2157	
					SI-239-H1			91-2222	
					SI-239-H2			91-2170	
					SI-241-H9			91-2238	
					SI-241-H11			91-2239	
								91-2542	
					SI-241-H16			91-2236	
					SI-89-H10			91-2155	
94 LPSI A		One	3	3	SI-89-H13			91-2440	PSE
					SI-89-H7			88-2042	
					SI-89-H8			88-2049	
								88-2110	
					SI-89-H9			88-2052	
					SI-70-H4			91-2240	
					SI-70-H5			91-2018	
					SI-70-H8			91-2029	
					SI-241-H6			91-2197	
					SI-241-H7			91-2196	
95 LPSI B		One	6	6	SI-241-H8			91-2241	Re-exam
					SI-241-H17			91-2242	
					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	
					SI-72-H7			91-2195	
					SI-72-H9			91-2194	
96 LPSI To Loop 1A		One	3	3	SI-194-H4			91-2189	PSE-SNUB. REDUC.
					SI-194-H7			91-2228	
					SI-194-H8			91-2229	
					SI-194-H9			91-2193	
								91-2540	
					SI-194-H10			91-2010	
					SI-194-H11			91-2198	
					SI-194-H15			91-2012	
					SI-194-H21			91-2190	
					SI-202-H7			88-2187	
		Two	8	8	SI-202-H8			88-2188	removed snubber red.
					SI-202-H9			88-2189	
					SI-202-H2			92-2004	
					SI-202-H3			91-2290	
								91-2516	
					SI-202-H4			91-2289	
					SI-202-H5			91-2261	
								91-2514	
					SI-202-H6			91-2260	
					SI-202-H10			91-2292	
					SI-202-H11			91-2291	



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
FR 5.11 &5.12	97 LPSI To Loop 1B	One	10	10	SI-202-H12			91-2515	PSE-SNUB. REDUC.
					SI-202-H15			92-2003	
					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	
					SI-220-H1			91-2333	
								91-2518	
					SI-220-H7			91-2519	Re-exam
					SI-220-H12			91-2521	PSE-SNUB. REDUC.
					SI-220-H16			91-2326	PSE-SNUB. REDUC
					SI-220-H17			91-2320	
					SI-220-H18			91-2323	
					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	
					SI-220-H29			91-2517	PSE-SNUB. REDUC.
	98 LPSI To Loop 2A	One	2	2	SI-155-H5			88-2199	
					SI-155-H6			88-2200	
		Two	5	5	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	
	99 LPSI To Loop 2B	Two	5	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	2	SI-241-H19			88-2185	
					SI-369-H1			88-2186	
	101 LPSI B Suction	Two	1	1	84-5			91-2527	
					SI-194-H18			93-2658	PSE
	70 LPSI A Suction	One	3	3	70-58	88-2083	88-2037		Vol/IEB 79-13
					70-69	88-2082	88-2037		Vol/IEB 79-13
					70-104	88-2084	88-2037		
		Two	4	4	70-103	91-2465	91-2448		
					70-44	91-2460	91-2447		
					70-46	91-2461	91-2447		



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## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
					70-61	91-2503	91-2505		UT limited (added weld 70-56 to program)
71 LPSI B Discharge	One	3	3	72-5	88-2079	88-2036			
				72-6	88-2080	88-2036			
				72-8	88-2081	88-2036			
	Two	3	3	72-18	91-2474	91-2463			
				74-45	91-2475	91-2464			
				74-46	91-2476	91-2464			
76 CS A Suction	One	2	2	80-10	88-2020	88-2004			
				80-16	88-2016	88-2004			
77 CS A Discharge	One	3	3	82-1	88-2018	88-2011			
				82-1A	88-2019	88-2011			
				82-2	88-2017	88-2011			
	Two	4*	4*	82-15	91-2245	91-2459			*required between 2 zones.
				82-16	91-2244	91-2459			
				82-31	91-2243	91-2459			
79 CS Pump B Suction	Two	2	2	81-12	91-2502	91-2485			
				81-15	91-2235	91-2005			
80 CS Pump B Disch.	Two	4*	4*	83-1A	91-2487	91-2486			
82 SD Cooling A	One	2	2	72-48	88-2033	88-2024			
				72-61	88-2031	88-2024			
	Two	4*	4*	72-52	91-2210	91-2199			
						91-2200			
83 SD Cooling A	One	6	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			
				74-105	88-2034	88-2015			
	Two	3	3	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*	4*	73-36	91-2187	91-2183			
				73-37	91-2186	91-2184			
				73-63	91-2185	91-2182			
89 LPSI B	Two	1	1	71-79	91-2234	91-2202			
90 LPSI B	Two	4*	4*	83-55	91-2213	91-2207			
				83-56	91-2212	91-2206			
				83-59	91-2209	91-2205			
93 West Wrap	Two	4*	4*	82-64	93-2284	93-2181			
91 LPSI A	One	2	2	74-44	88-2273	88-2146			
				76-2	88-2277	88-2145			
	Two	2*	2*	77-8	91-2223	91-2217			





# APPENDIX A

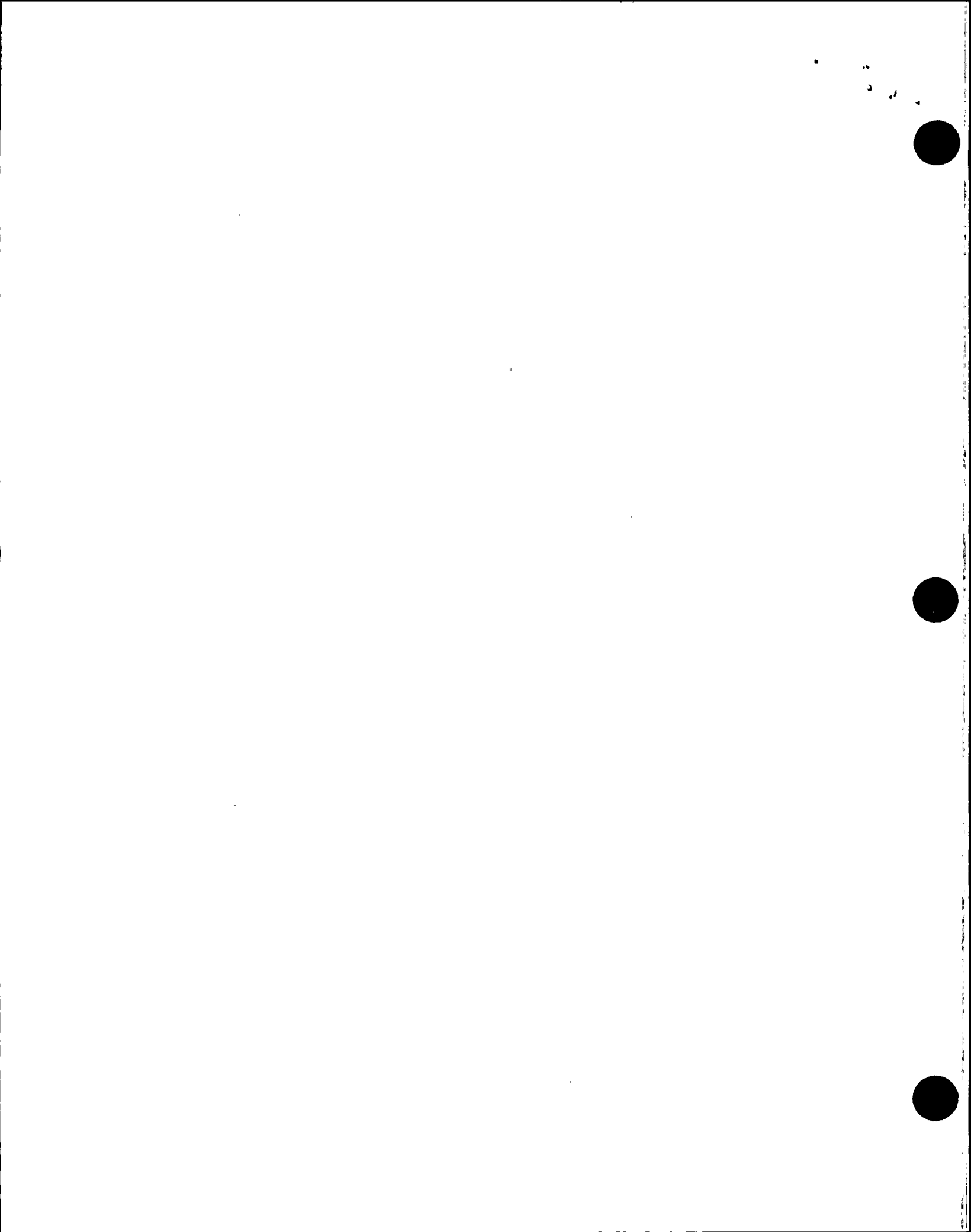
## INSERVICE INSPECTION SUMMARY REPORT

ASME Item no	Zone Comp/sys	Insp per	Amt Req	Amt Comp	Item ID	Vol	Reports Surf	Visual	Remarks
FR 5.21 &FR5.22	92 LPSI A	One	5	5	77-10D	91-2215	91-2216		No UT inaccess
					70-2	88-2278	88-2147		
					70-16		88-2152		
					70-17	88-2275	88-2152		
					70-80	88-2276	88-2152		
	94 LPSI A	One	2	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	1	70-134	88-2302	88-2290		
		Two	2*	2*	70-116	91-2379	91-2378		
	101 LPSI B Suction	Two	2*	2*	71-130	91-2509	91-2507		*required between 2 zones
	88 LPSI B	One	1	1	78-16	88-2269	88-2066		
	93 Cont. Sump Suct. 1	Two			84-9	91-2247	91-2230		
		Two	3	3	77-22	91-2405	91-2381		
	98 LPSI to Loop 2A	One	2	2	77-27	91-2404	91-2382		
					77-28D	91-2395	91-2382		
					78-45	88-2301	88-2265		
					78-47	88-2300	88-2265		
FR 5.31 &5.32	82 SD Cooling A	One	1	1	72-49A		88-2024		
	91 LPSI A	One	1	1	74-102		88-2146		



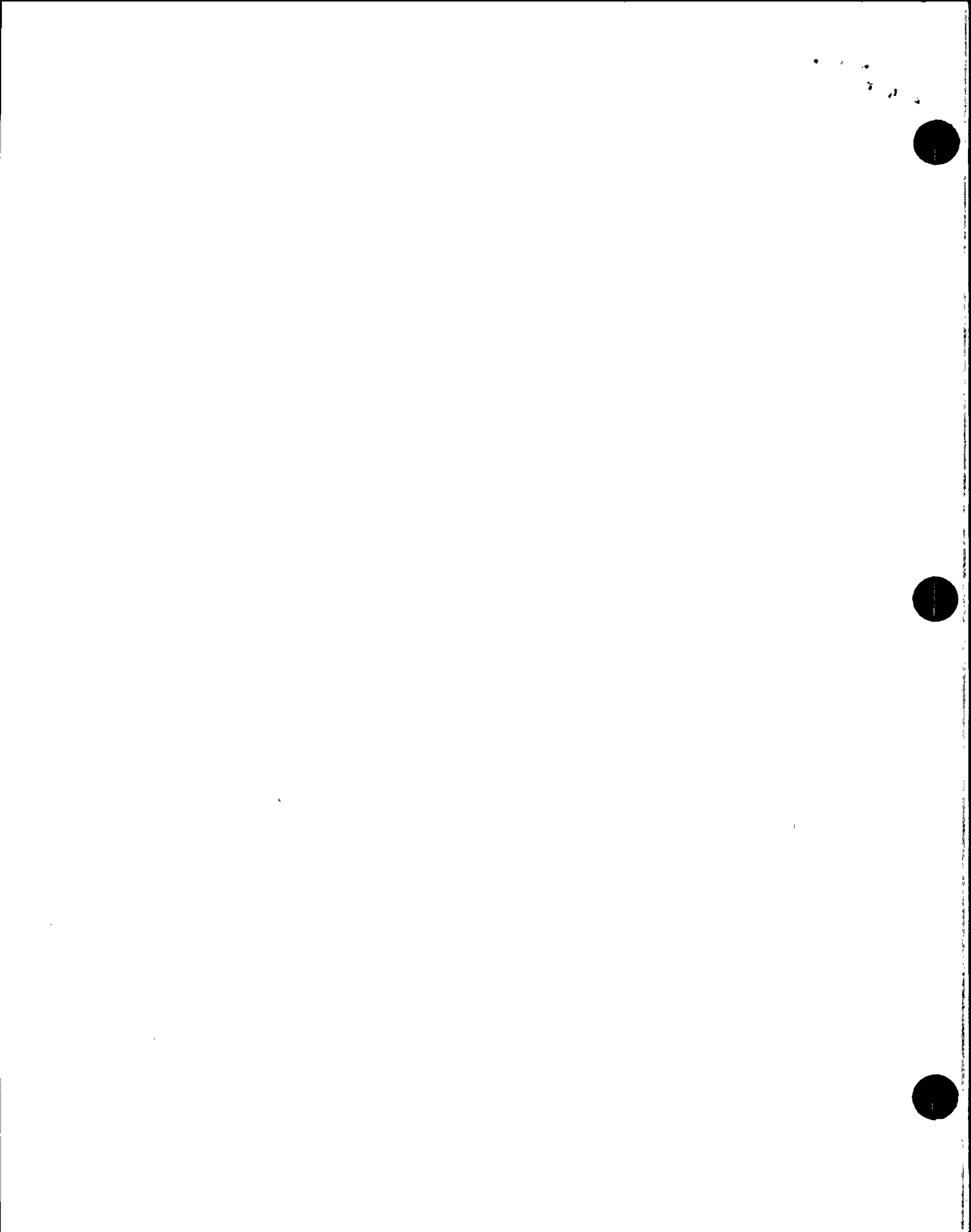
APPENDIX B

INSERVICE INSPECTION  
CODE LIMITATIONS



APPENDIX B  
CODE LIMITATIONS

No Code Limitations identified  
during Fourth Refueling Outage.



APPENDIX C

FORM  
NIS-1





## 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  
APPURTENANCEMANUFACTURER  
OR INSTALLERSERIAL  
NUMBERSTATE OR  
PROVINCENATIONAL  
BOARD NO

THE ITEMS EXAMINED, WITH EXAMINATION REPORT NUMBERS, ARE LISTED IN APPENDIX A. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE FOURTH REFUELING ARE NUMBERED WITH A 93-2XXX REPORT NUMBER.



## OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

7. EXAM DATES 3/23/93 TO 8/13/93
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 ITEM NUMBERS WITH CORRESPONDING EXAMINATION REPORT NUMBERS. ALL OF THE EXAMINATION REPORT NUMBERS FOR THE FOURTH REFUELING ARE NUMBERED WITH A 93-2XXX REPORT NUMBER.
10. ABSTRACT OF CONDITIONS NOTED  
THERE ARE NO OUTSTANDING REJECTABLE ITEMS IN UNIT 2. THE REJECTABLE ITEMS DURING THIS OUTAGE CONSISTED OF 20 ITEMS, 14 REJECTED SUPPORTS, 5 REJECTED PIPE WELDS FOR MINOR SURFACE DEFECTS, AND 1 REJECTED NUT ON PSV201. A LIST OF INDIVIDUAL REJECTED COMPONENTS IS LISTED IN SECTION 7.0 REPAIRS AND REPLACEMENTS, OF THIS REPORT.
11. ABSTRACT OF CORRECTIVE MEASURES RECOMMENDED AND TAKEN  
THE REJECTABLE SURFACE INDICATIONS DETECTED WERE REMOVED BY FILING/GRINDING AS PER THE REQUIREMENT OF EACH MNCR. THICKNESS READINGS WERE TAKEN IN THE AREAS WHERE FILING/GRINDING HAD TAKEN PLACE TO VERIFY THAT THE REQUIRED PIPE THICKNESS WAS MAINTAINED. THE REJECTED SUPPORT COMPONENTS WERE REWORKED AND REEXAMINED PER THE INDIVIDUAL MNCR. THE REJECTED BOLTING WAS REPLACED PER THE INDIVIDUAL MNCR.  
  
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 10-8-93 SIGNED: ARIZONA PUBLIC SERVICE COMPANY BY DBH

## 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 3-23-93 TO 10-8-93, 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 L. Foytune COMMISSIONS NB 9685 "N" "I" 12-264  
DATE 10-8-93 NAT'L BOARD, STATE, PROVINCE

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