

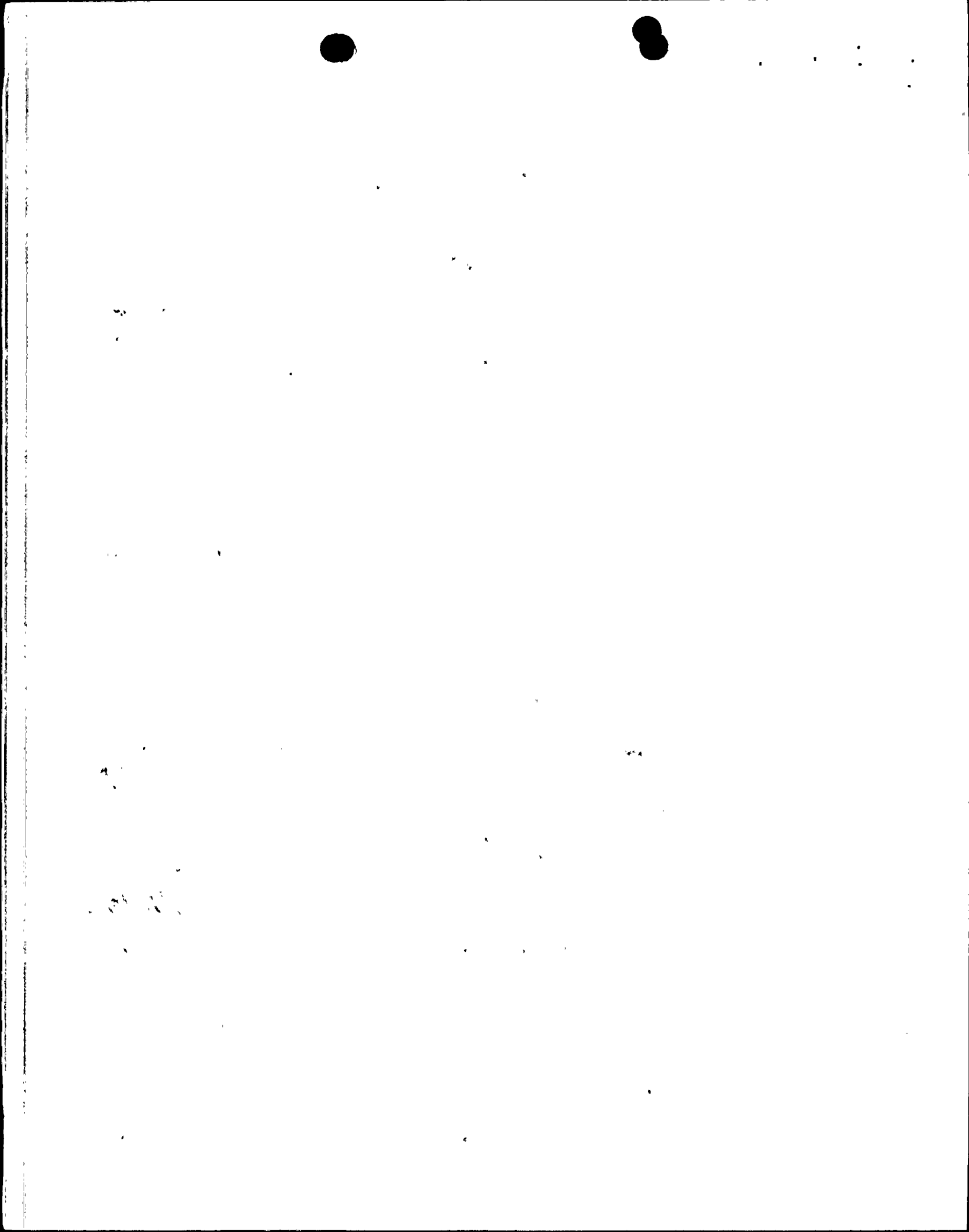
PALO VERDE NUCLEAR GENERATING STATION
UNIT 2 INSERVICE INSPECTION REPORT
THIRD REFUELING OUTAGE

ARIZONA PUBLIC SERVICE
P.O. BOX 52034
PHOENIX, AZ 85072

PREPARED BY: Chris T. Brown DATE: 3/13/92
REVIEWED BY: R. Branning DATE: 3/13/92
APPROVED BY: TBH- DATE: 3-16-92

COMMERCIAL SERVICE DATE: 9/19/86
REPORT DATE: 2/13/92

9203300210 920213
PDR ADOCK 05000529
Q PDR



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:

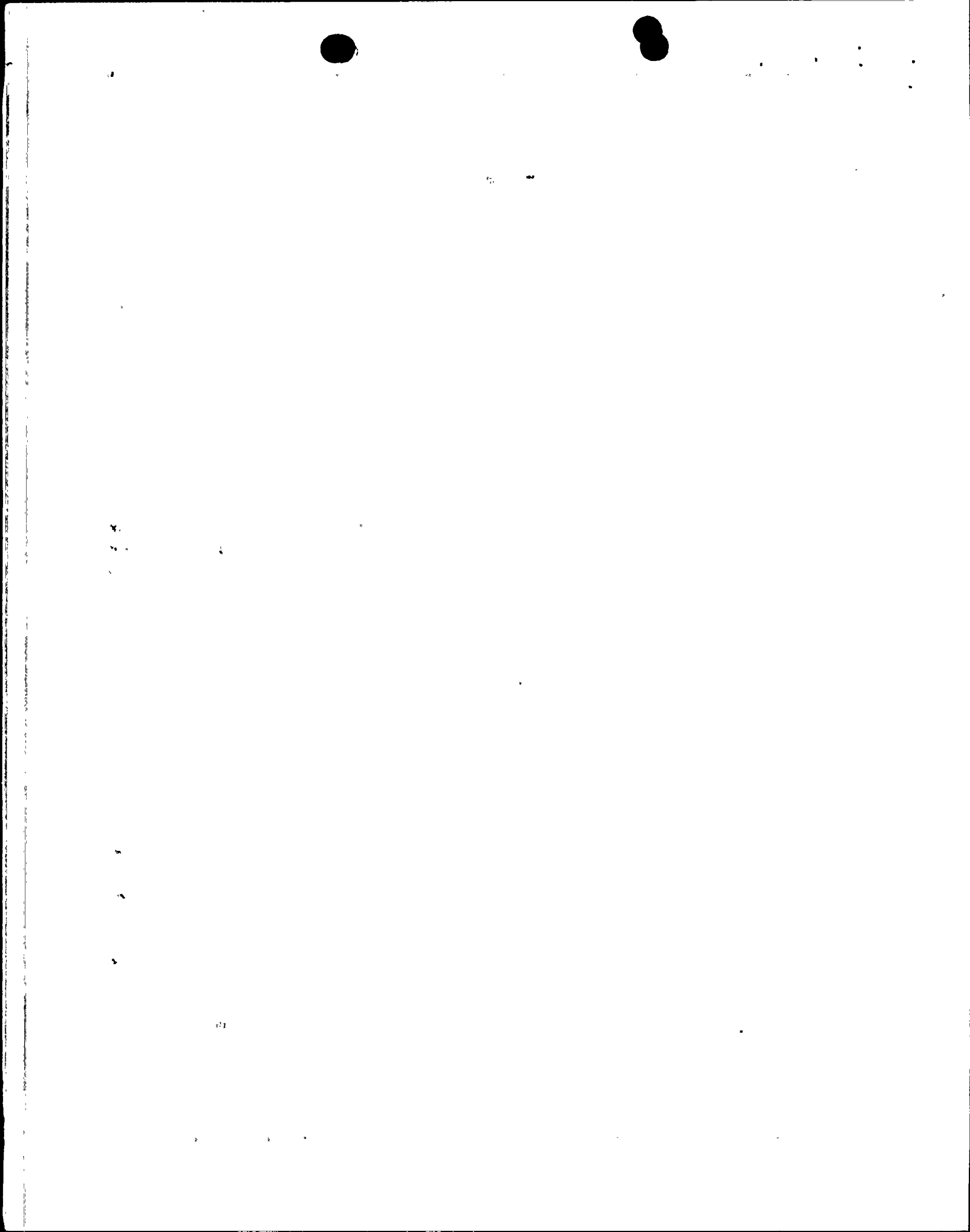
1. ASME Section XI Class 1 and 2 pressure retaining components and their supports,
2. Augmented High Energy Piping systems in accordance with PVNGS UFSAR Section 6.6.8, and
3. Augmented examinations of Class 2 Safety Injection piping systems in accordance with 10CFR50.55a.

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.

1 . 1

1

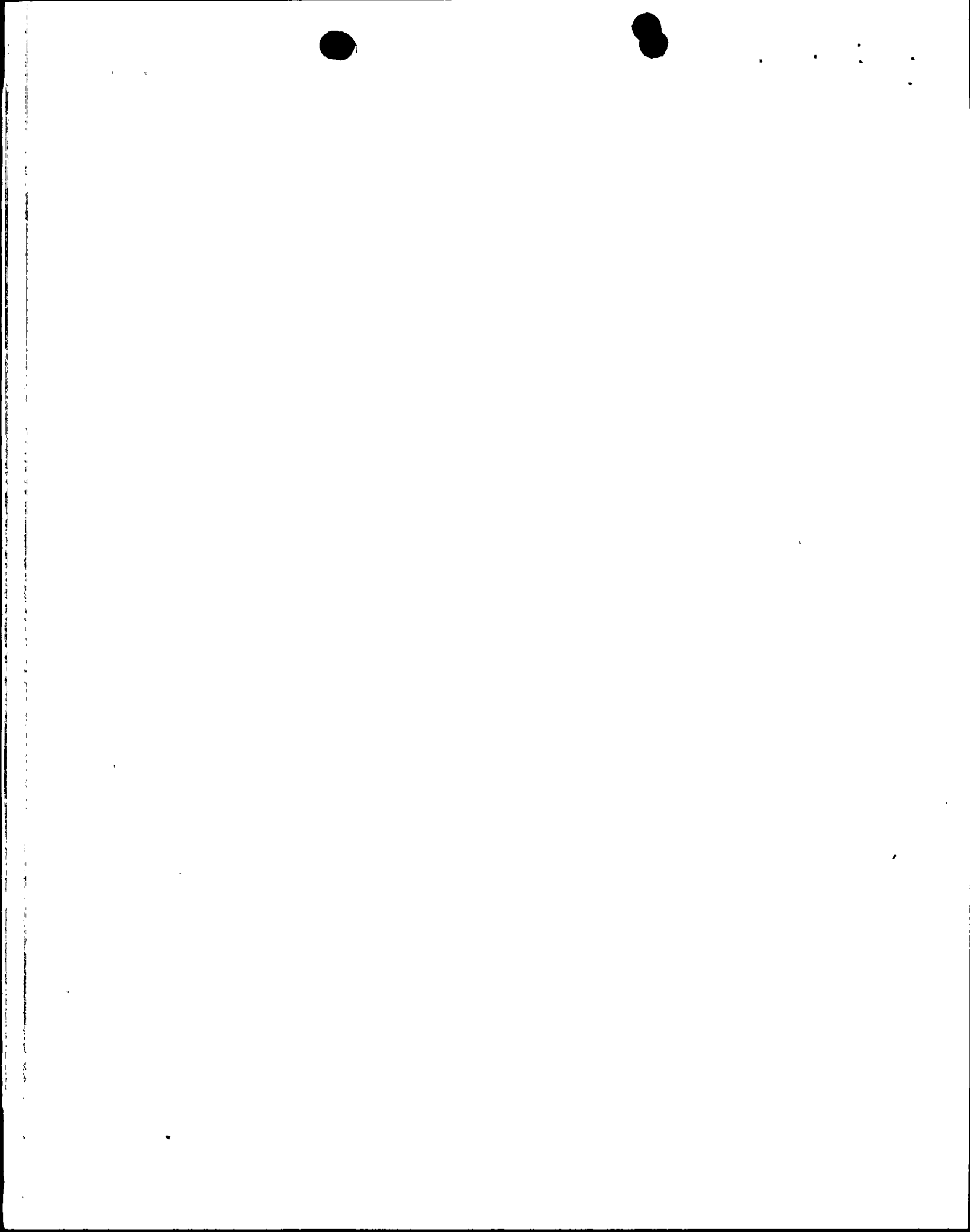
7.0 Repairs and Replacements

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

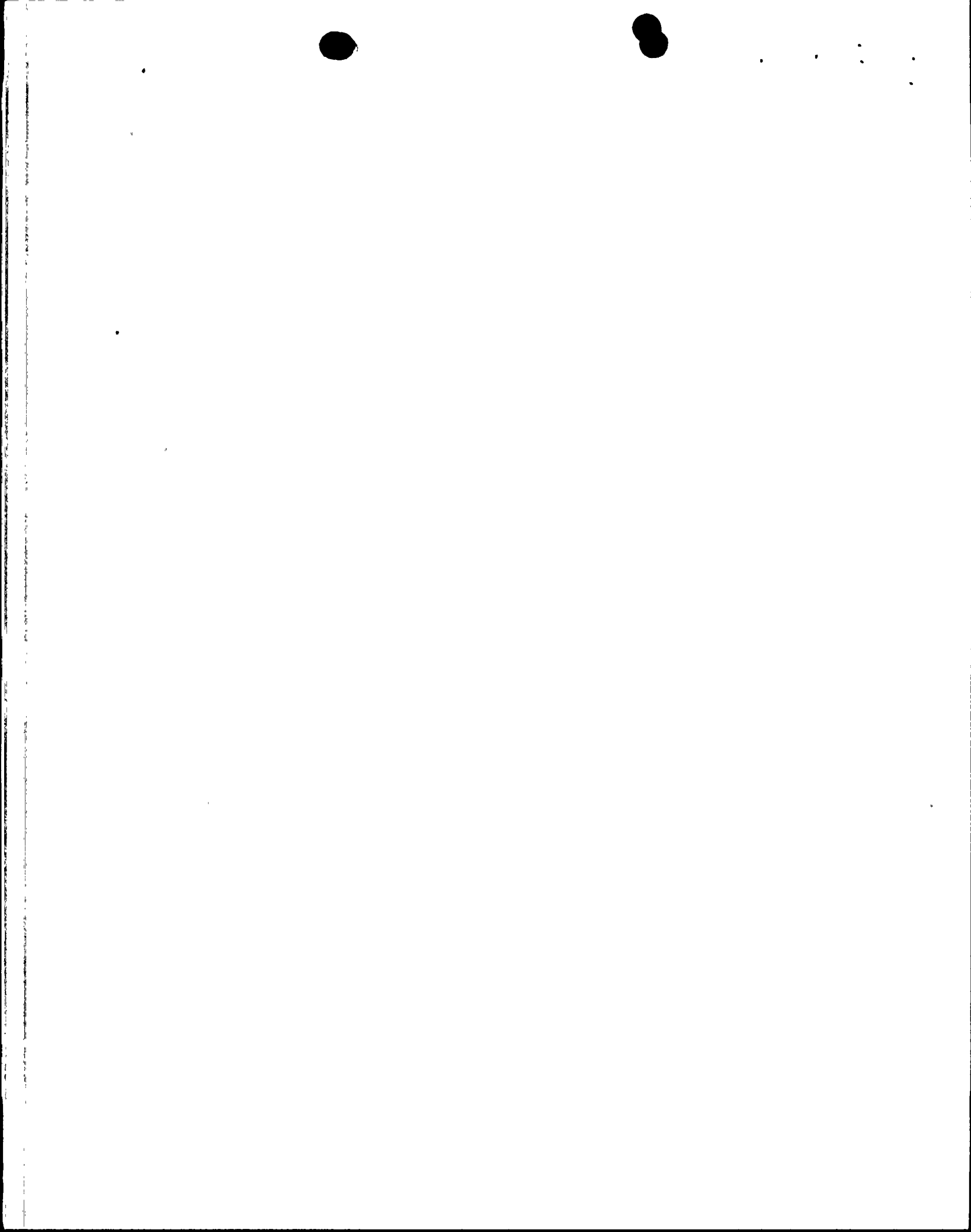
The linear indications detected were removed by filing/grinding as per the requirement of each individual Material Nonconformance Report. Pipe thickness readings were taken in the areas where filing or grinding had taken place to verify that the required pipe thickness was maintained. The steam generator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

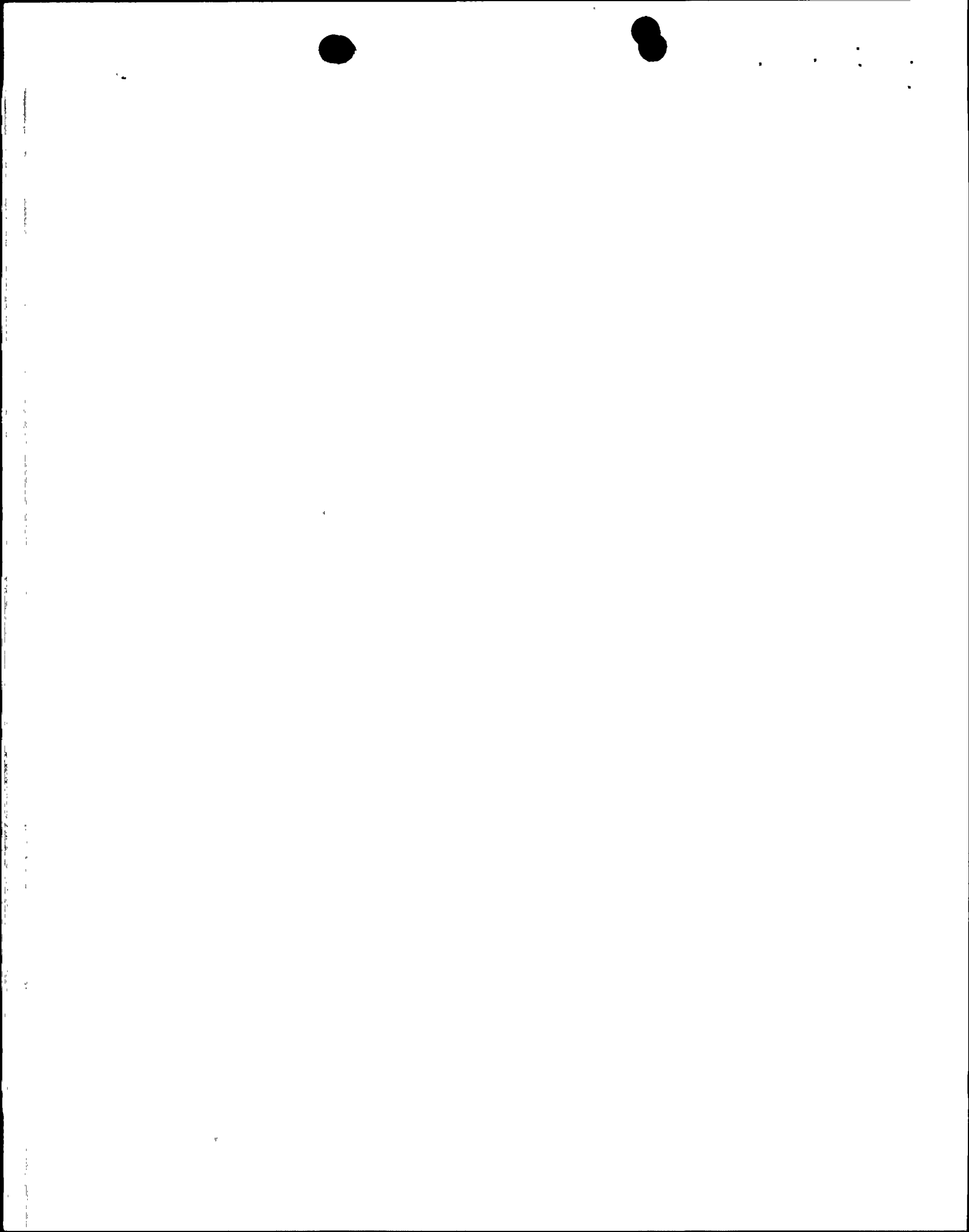
Item ID: Item identification per ISI program/zone drawings

Reports (VOL): Volumetric exam report number

(SURF): Surface exam report number

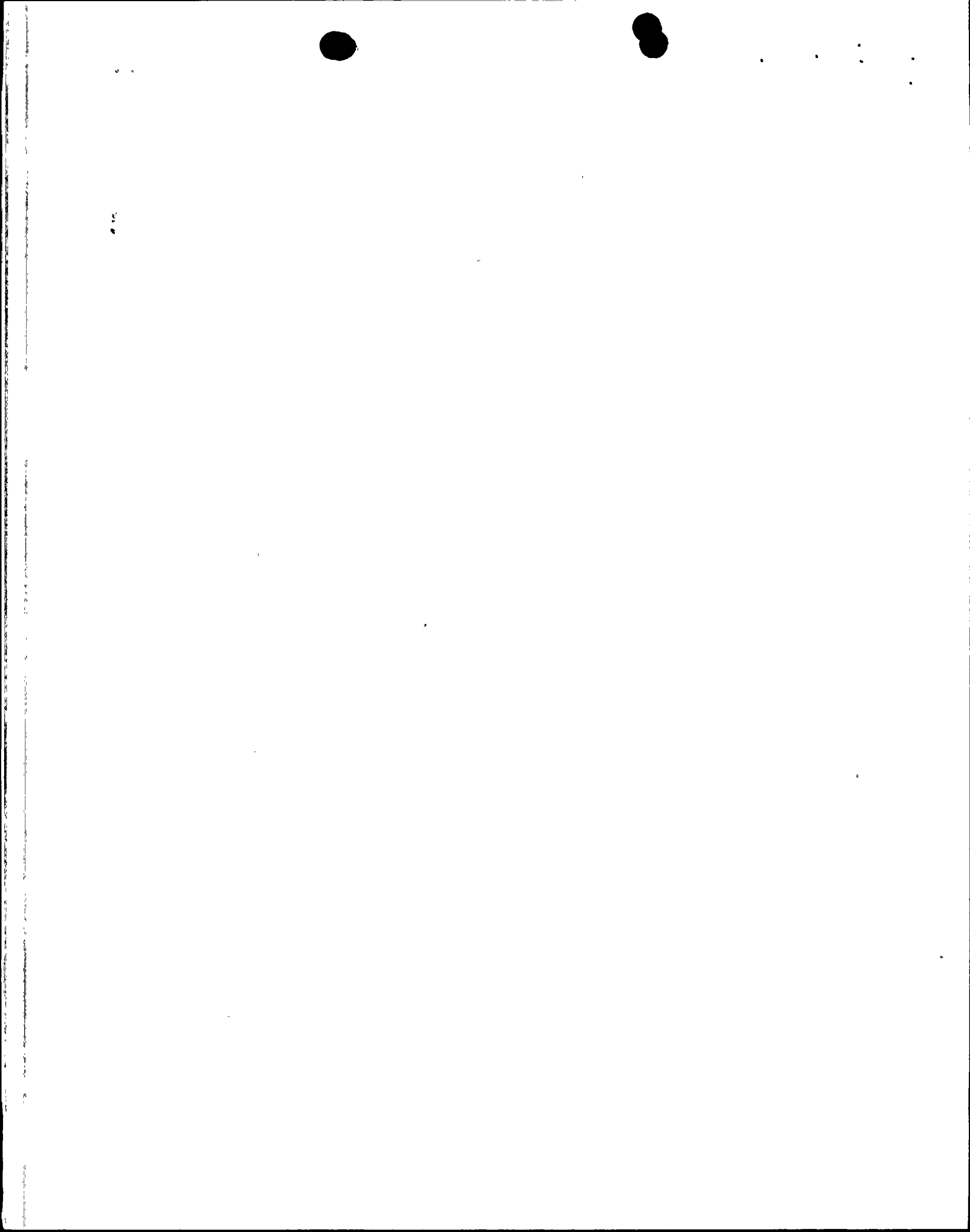
(VIS): Visual exam report number

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



Definition of terms continued

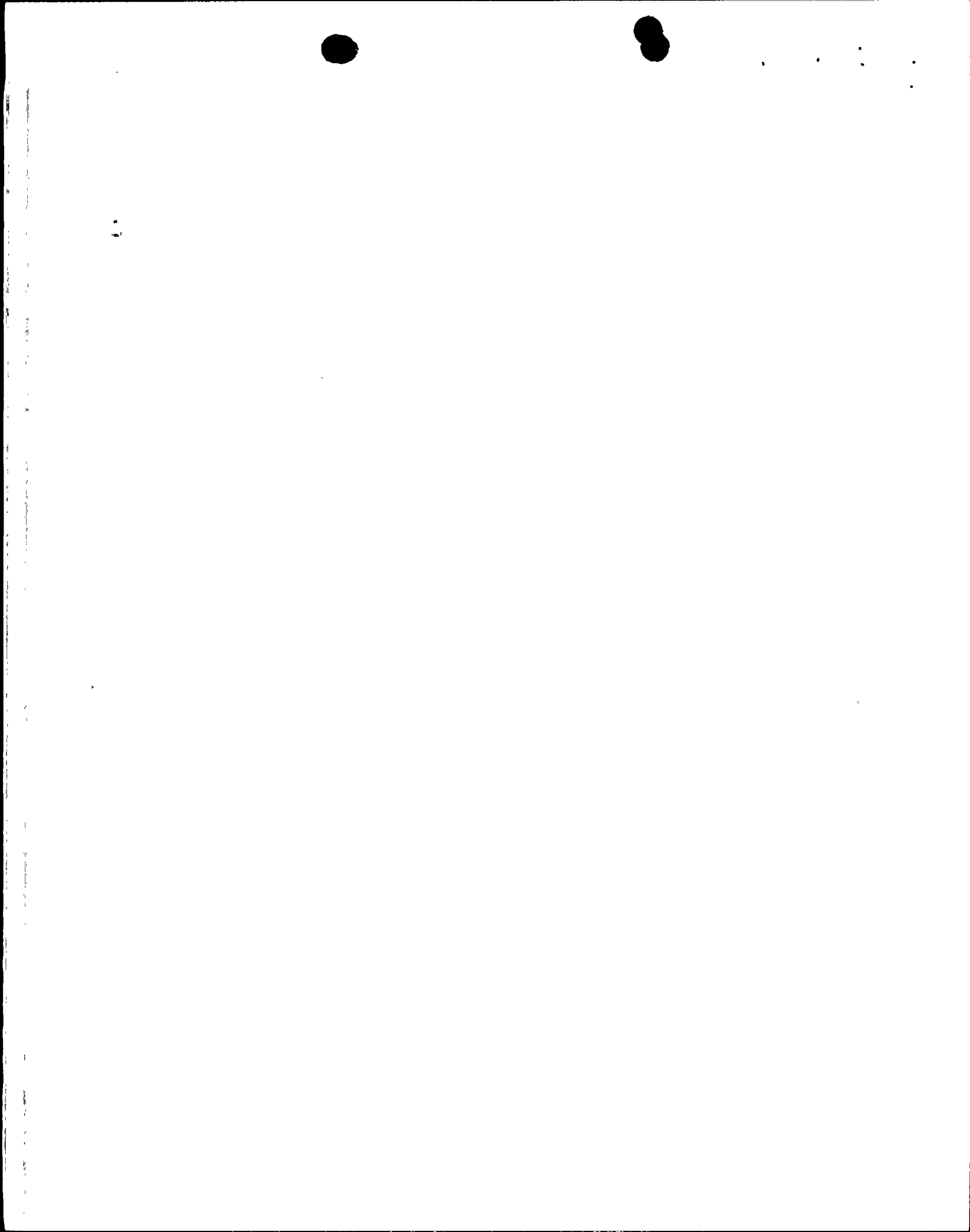
ADV:	Atmospheric Dump Valve
Aux FW:	Auxiliary Feedwater
Atmos Dump:	Atmospheric Dump
Circ:	Circumferential
Cont:	Containment
CS:	Containment Spray
CSP:	Containment Spray Pump
FW:	Feedwater
HPSI:	High Pressure Safety Injection
Letdown HT Exch:	Letdown Heat Exchanger
LPSI:	Low Pressure Safety Injection
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



APPENDIX A

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					
					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) Re-exam					
				91-2528								
		53-8	91-2478	91-2439								
		53-9	91-2467	91-2439								
AHE 5.21 & AHE5.22	47	MS SG1 270	One	12	53-10	91-2468	91-2439					
					47-1	88-2272	88-2112			CIRC UT AXIAL UT		
						88-2142						
					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										



APPENDIX A

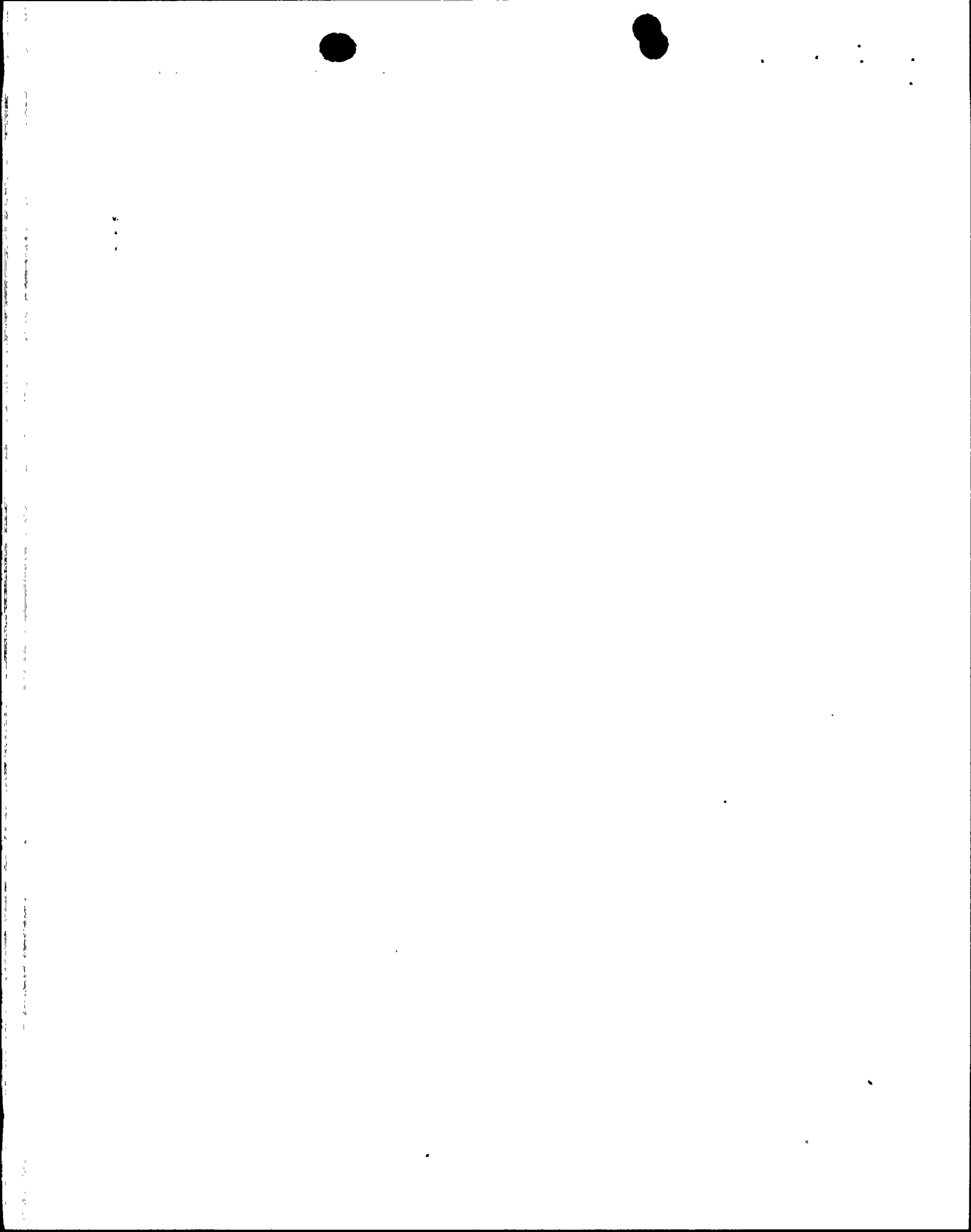
INSERVICE INSPECTION SUMMARY REPORT

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

APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

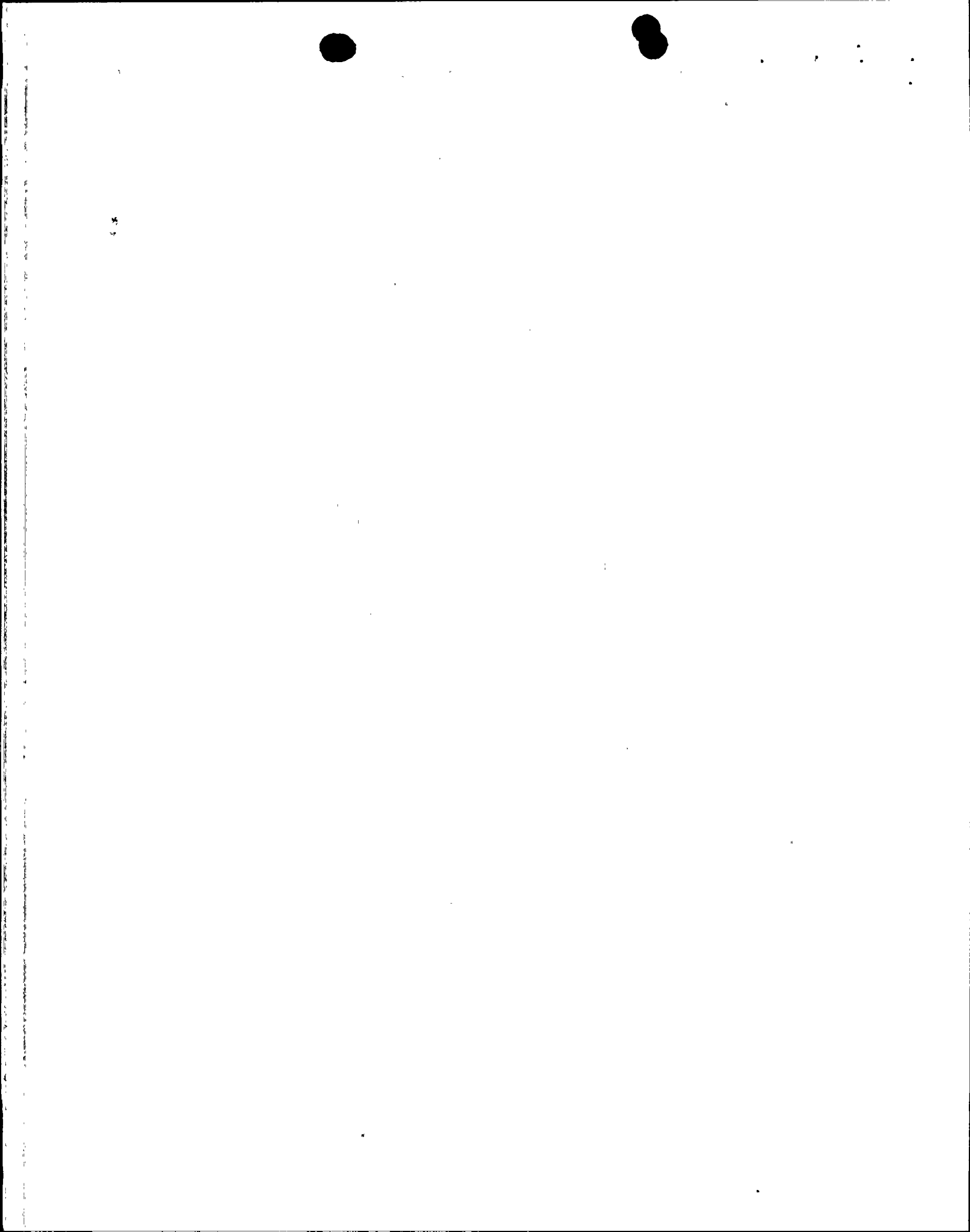
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.21 & AHE5.22	52	Atmos Dump SG 2	One	0	52-87	90-2308	90-2301		PSE/Block valve
					52-88	90-2309	90-2301		PSE/Block valve
	56	FW SG 1	One	4	56-1	90-2250	90-2255		
					56-4	90-2251	90-2255		
					56-6	90-2248	90-2255		
					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		



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

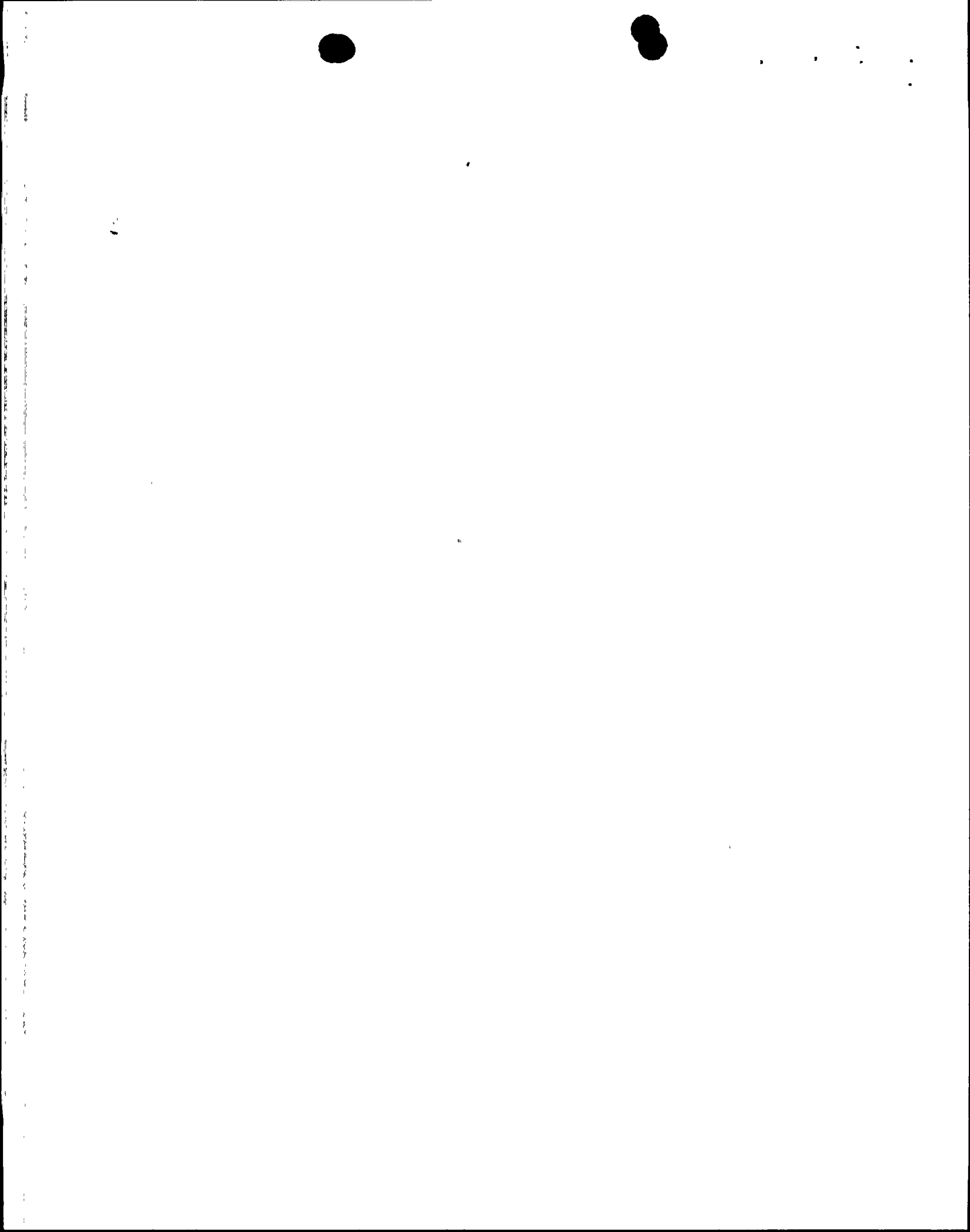
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
AHE 5.31 & AHE5.32	48	MS SG 1 90	Two	9	48-23 48-27 48-34 48-35	91-2255	91-2250 91-2296 91-2249 91-2293 91-2251 91-2258 91-2248		
B 1.22	02	Closure Head	One	33%	2-4	88-2375	88-2346 88-2373 88-2346 88-2372 88-2346		
B 1.30	01	Reactor Vessel	One	50%	1-14	*			*Seperate Report by Westinghouse
B 1.40	02	Closure Head	One	33%	2-1	88-2371	88-2346 88-2374 88-2346 88-2376 88-2346		
B 2.11 & B2.12	05	PZR	One	33%	5-2 5-8	88-2362	88-2343 88-2358 88-2343 88-2366 88-2343 88-2364 88-2343 88-2361 88-2343 88-2360 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	Reactor Vessel	One	2	1-15 1-18	*			*Seperate Report by Westinghouse
	01	Reactor Vessel	One	2	1-15 1-18	*			
B 3.110	05	PZR	One	2	5-11 5-9	88-2359	88-2343 88-2365 88-2363 88-2353 88-2356 88-2354		
B 3.120	05	PZR	One	2	5-11 5-9	88-2355 88-2357			Nozzle Inner Radius Nozzle Inner Radius



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

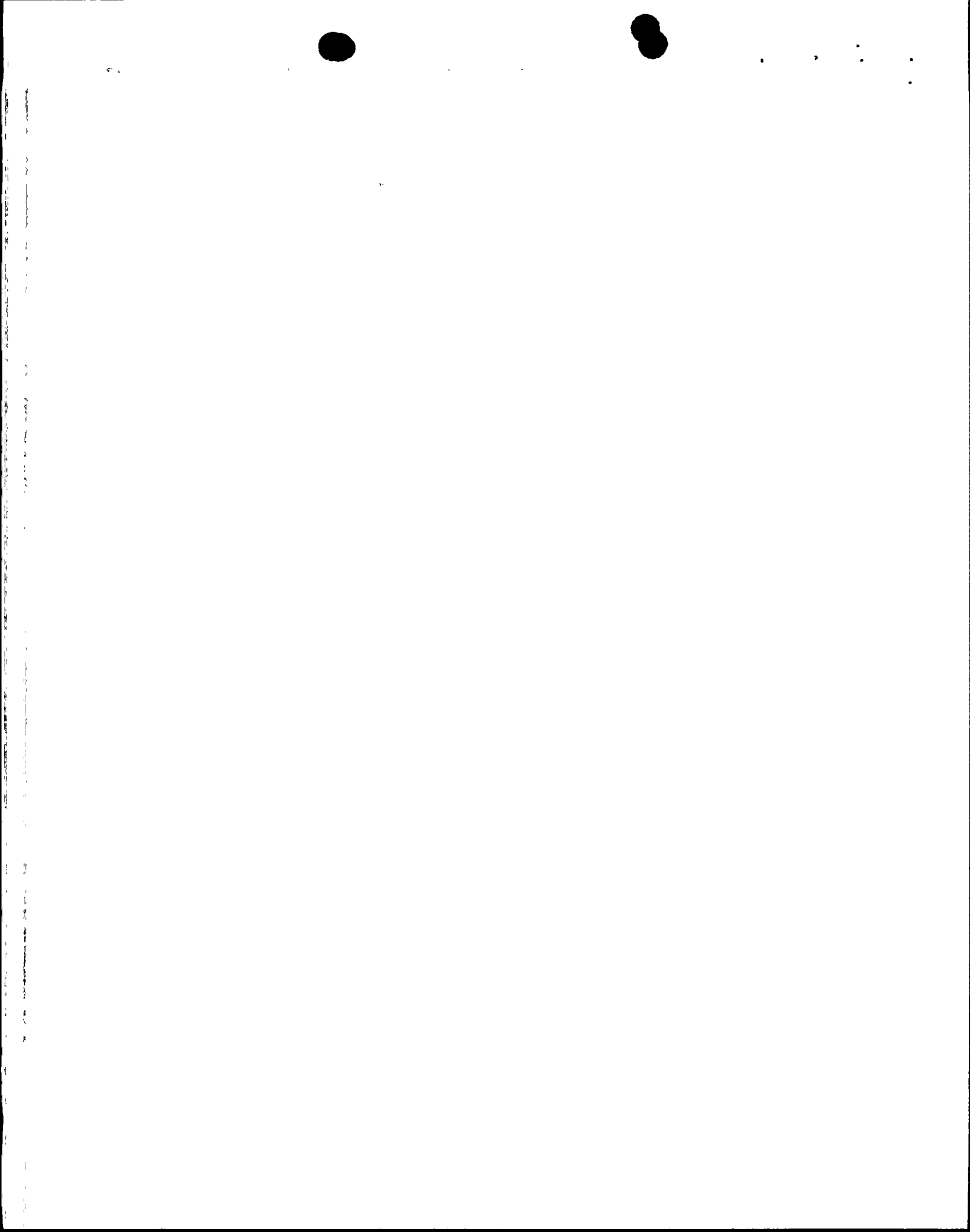
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 3.130	03	SG 1	One	1	3-9	90-2353 90-2354 90-2355			
	04	SG 2	One	1	4-9	90-2334 90-2335 90-2336			
B 3.140	03	SG 1	One	1	3-9	90-2356			Inner Radius
	04	SG 2	One	1	4-9	90-2337			Inner Radius
B 4.12	02	Closure Head	One	8	CEDM			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 90-2238	RCP 2A 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	



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

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	PSE		
					5 Studs		88-2411				
					20 Studs		90-2298				
					20 Studs		90-2362				
					40 Studs	Two	40	40 Studs		91-2469	
	04	SG 2 Manway Studs	One	40	40 Studs		88-2388	88-2405	Reject 1 stud PSE		
					1 Stud		88-2411				
					20 Studs		90-2299				
					20 Studs		90-2322				
					40 Studs	Two	40	40 Studs		91-2484	
B 7.50	31	PZR PSV Studs&Nuts	One	1	PSV200			91-2504	PSE		
							88-2220		PSE		
							90-2333	90-2332		PSE	
							PSV201		88-2396		PSE
							90-2333	90-2332			PSE
							PSV202		88-2396		PSE
							90-2333	90-2332			PSE
							PSV203		88-2396		PSE
							90-2333	90-2332			PSE
						Two	1	PSV200		91-2506	
B 7.60	37	Charging Line Flange	One	1	V435			88-2326			
							88-2417				
	16	RCP 1A Seal Housing	One	5	1-16			91-2266			
			Two	5	1-16		88-2418				
	17	RCP 1B Seal Housing	One	5	1-16			91-2266			
			Two	5	1-16		88-2419				
	18	RCP 2A Seal Housing	One	5	1-16			91-2266			
			Two	5	1-16		88-2420				
	19	RCP 2B Seal Housing	One	5	1-16			91-2266			
			Two	5	1-16		88-2201				
B 7.70	21	SD Cooling Loop 1	One	1	V653			90-2252			
	22	SD Cooling Loop 2	One	1	V654			90-2443			
	23	Safety Injection 1A	One	1	V237			88-2165			
	24	Safety Injection 1B	One	1	V543			88-2401			
	25	Safety Injection 2A	One	1	V540			88-2169			
	26	Safety Injection 2B	One	1	V225			88-2210			
	28	PZR Spray 1B	One	2	V241			88-2210			
					V242		88-2220				
	31	PZR Safeties	One	1	PSV200			91-2525			
			Two	1	PSV202			88-2328			
32	Drain Line 1A	One	2	V234			88-2328				
				V334			91-2335				
33	Drain Line 1B	Two	2	V235			91-2335				
				V335			91-2334				
34	Drain Line 2A	Two	2	V233			91-2346				
				V333							

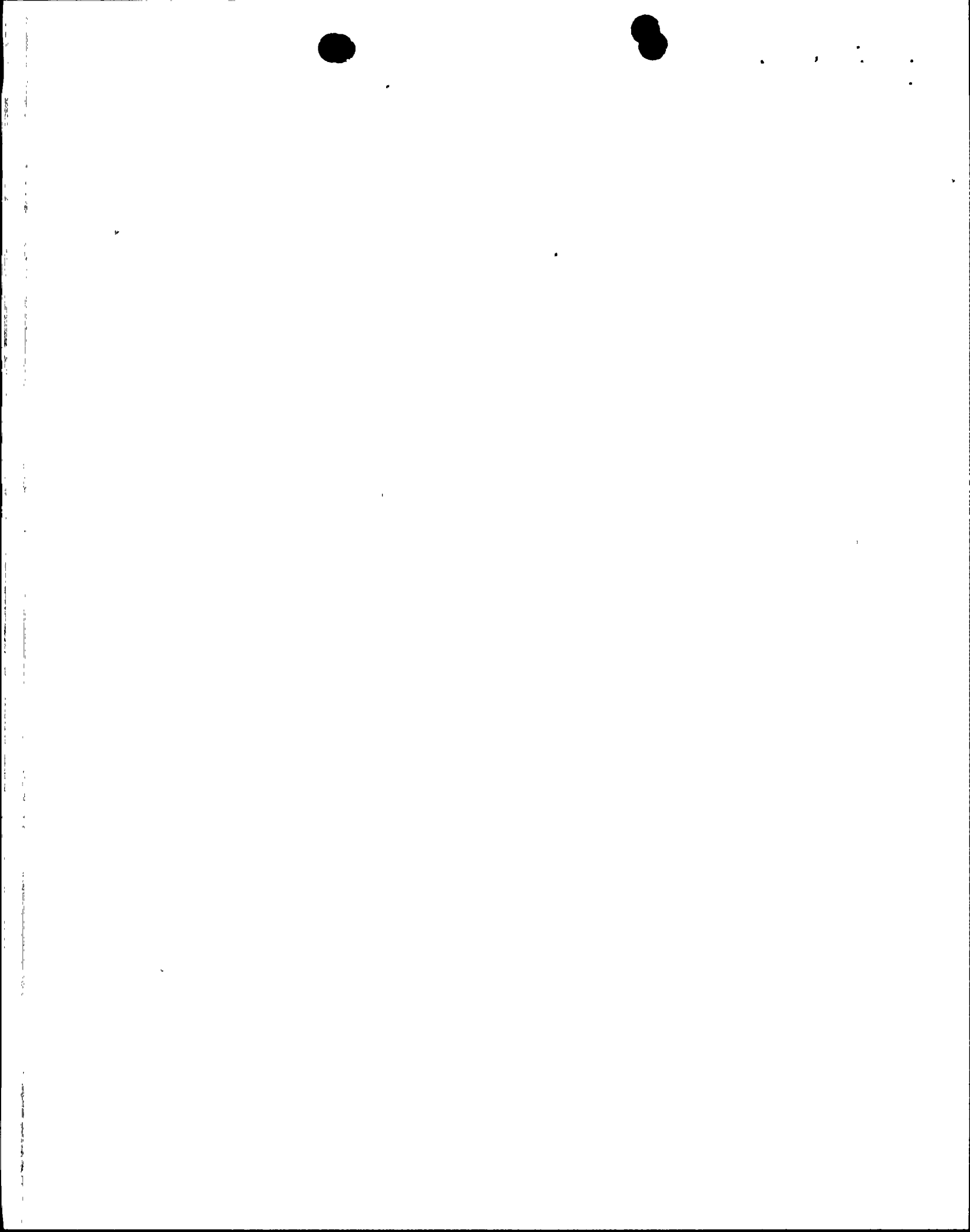


APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

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	
40	HPSI 2	Two	1	V532			91-2401		
B 7.80	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	PZR Surge	One	1	20-1	88-2368	88-2352		
	21	SD Cooling 1	One	2	21-18	90-2377	90-2366		
					21-20	90-2378	90-2366		
			Two	2	21-14	91-2349	91-2340		
					21-15	91-2350	91-2339		
22	SD Cooling 2	One	2	22-11	90-2257	90-2253			
				22-14	90-2258	90-2256			
				22-23		90-2253			
			Two	2	22-17	91-2386	91-2374		
23	Safety Injection 1A	One	3	23-1	90-2449	90-2452			
				23-2	90-2450	90-2452			
				23-4	90-2451	90-2452			
				24-14	91-2306	91-2264			
24	Safety Injection 1B	Two	3	24-16	91-2307	91-2265			
				24-19	91-2308	91-2252			
				25-26	88-2298	88-2267			
25	Safety Injection 2A	One	2	25-29	88-2299	88-2268			
				26-9	88-2293	88-2259			
26	Safety Injection 2B	One	2	26-11	88-2292	88-2259			
				26-17	91-2403	91-2380			
29	Combined PZR Spray	One	2	29-10	88-2318	88-2315			
				29-11	88-2319	88-2377			
					90-2241	90-2239			
	31	PZR Safeties	One	1	31-1	88-2317	88-2309		
B 9.21 &B9.22	27	PZR Spray 1A	One	3	27-42		90-2367		
					27-43		90-2367		
					27-44		90-2367		
					28-31		88-2342		
28	PZR Spray 1B	One	4						

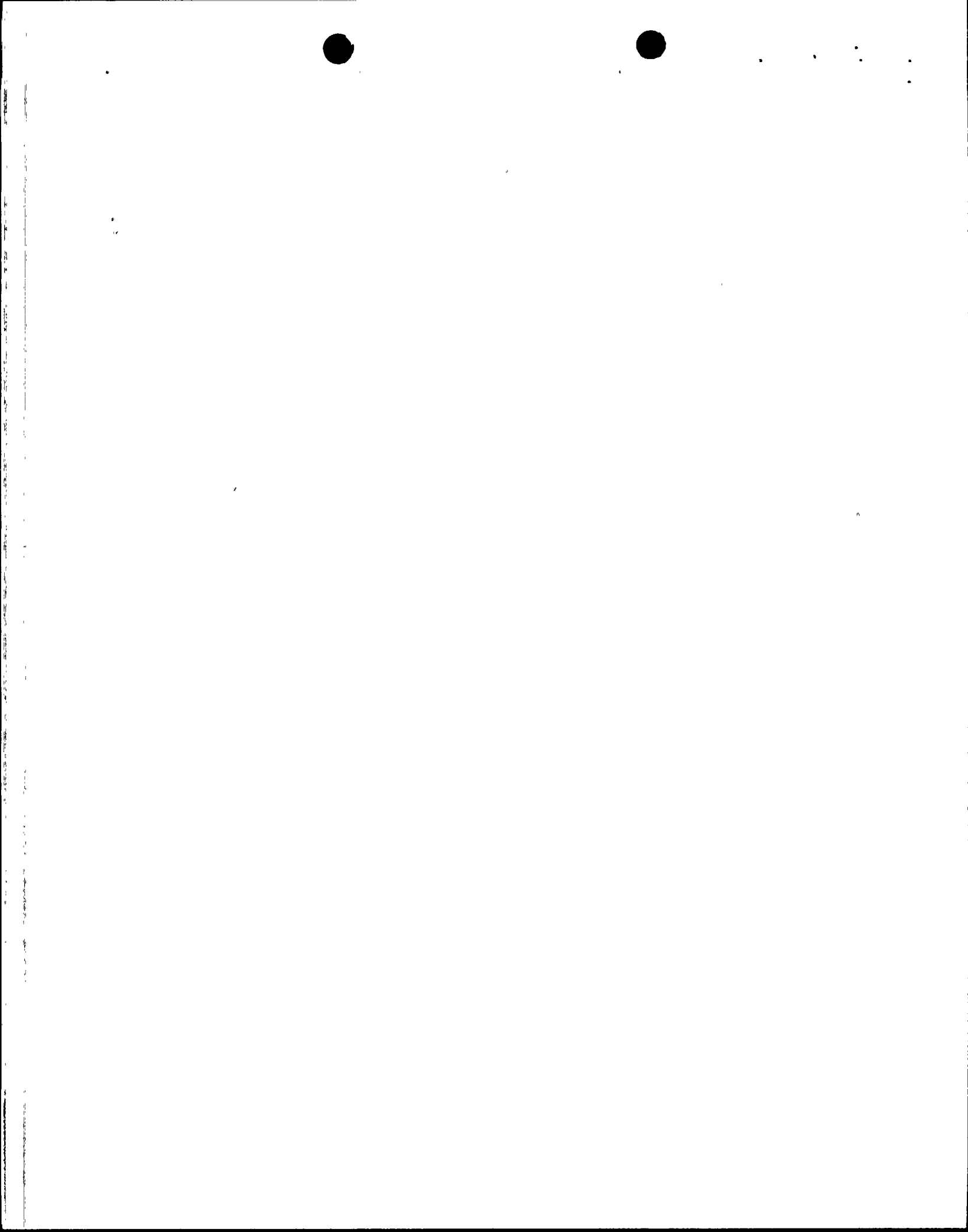
UT inaccess
(added weld 22-14
to program)



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

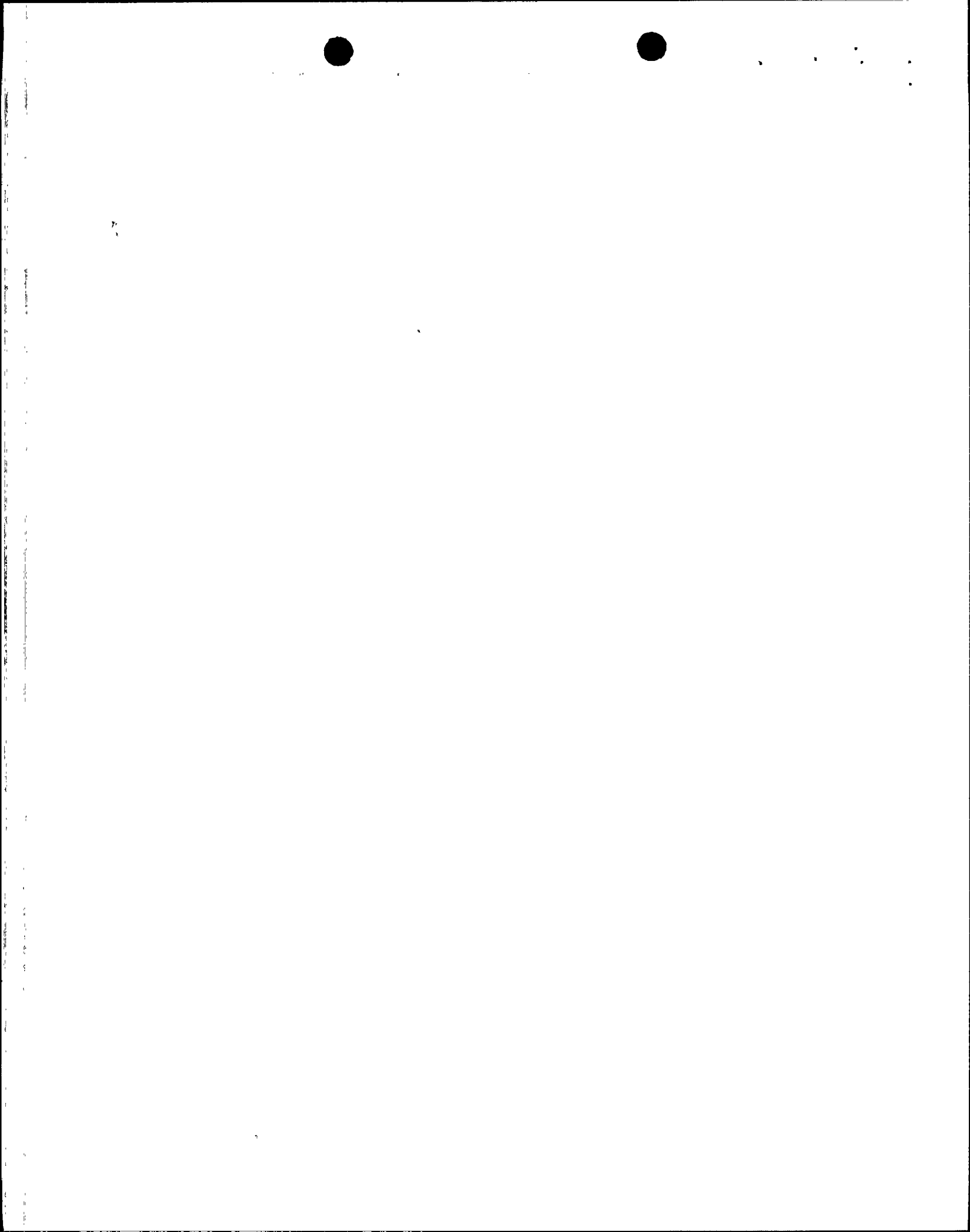
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
B 9.21 & B9.22	28	PZR Spray 1B	One	4	28-32		88-2342		
					28-39		88-2341		
					28-40		88-2341		
	30	Aux PZR Spray	One	2	30-1	90-2242	90-2240		Vol/IEB 88-08 PIPE ALSO
					30-2	90-2242	90-2240		
					30-7		88-2310		Vol/IEB 88-08 PIPE ALSO
					30-13		88-2310		
			Two	2	30-1		91-2360		
					30-2		91-2360		
					30-7		91-2359		
					30-13		91-2359		
	32	Drain Line 1A	One	2	32-1		88-2313		
					32-2		88-2314		
	33	Drain Line 1B	Two	2	33-1		91-2348		
					33-5		91-2347		
	36	Letdown	One	4	36-8		88-2348		
					36-9		88-2348		
					36-28		88-2350		
					36-35		88-2350		
	37	Charging	One	5	37-41		88-2324		
					37-42		88-2324		
					37-43		88-2324		
					37-45		88-2325		
					37-47		88-2325		
	39	HPSI Loop 1	One	2	39-1		88-2291		
					39-5		88-2291		
			Two	3	39-12		91-2253		
					39-13		91-2253		
					39-24		91-2263		
	40	HPSI Loop 2	One	3	40-1		90-2254		
					40-2		90-2254		
					40-3		90-2254		
			Two	2	40-6		91-2402		
					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	



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

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 88-2408 91-2531	
B 14.10	02	Closure Head	Two One	100% 2	Acc Areas 9-76 9-83 10-76 10-83	88-2398 88-2397 88-2400 88-2399			
B15.10	1,2	Reactor Vessel	One Two	All All	Press Bound Press Bound			* ***	
B15.20	5	PZR	One Two	All All	Press Bound Press Bound			* ***	*88-2424
B15.30	3	SG 1	One Two	All All	Press Bound Press Bound			* ***	90-2001 AND 90-2456
	4	SG 2	One Two	All All	Press Bound Press Bound			* ***	
B15.50	All	RCS Piping	One Two	All All	Class 1 Class 1			* ***	***92-2001
B15.60	16	RCP 1A	One Two	All All	Press Bound Press Bound			* ***	
	17	RCP 1B	One Two	All All	Press Bound Press Bound			* ***	
	18	RCP 2A	One Two	All All	Press Bound Press Bound			* ***	
	19	RCP 2B	One Two	All All	Press Bound Press Bound			* ***	
B 15.70	ALL	RCS Valves	One Two	All All	Class 1 Class 1			* ***	
BFLYWH	16	RCP 1A Flywheel	One	1		89-1001** 89-1002**			**FLYWHEELS MOVED FROM UNIT 1 DURING THIS OUTAGE
	17	RCP 1B Flywheel	One	1		89-1005** 89-1006**			
	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 Two	2 4	16-17 16-18 16-12 16-13 16-14 16-15			88-2333 88-2334 91-2267 91-2267 91-2267 91-2267	
	17	RCP 1B	One Two	2 4	17-17 17-18 17-12 17-13 17-14 17-15			88-2340 88-2339 91-2268 91-2268 91-2268 91-2268	
	18	RCP 2A	One	4	18-12 18-13			88-2332 88-2332	



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

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			
			20	PZR Surge	One	2	RC-28-H1			88-2336	
							RC-28-H2			89-2004	
							88-2337				
							89-2005				
							89-2006	IEB 88-11			
							89-2007				
Two	2	RC-28-H3					89-2001	IEB 88-11			
		RC-28-H4					89-2002	IEB 88-11			
		RC-28-H842					89-2003	IEB 88-11			
		RC-28-H843					91-2270				
		RC-28-H844					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				
				RC-51-H4			91-2274				
				RC-51-H5			91-2275				
		Two	7	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				
				RC-68-H5			90-2259				
				RC-68-H6			90-2260				
				SI-193-H17			90-2261				
				SI-193-H19			90-2262				
22	SD Cooling 2	One	4	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				
				SI-207-H3			90-2444				
		Two	5	SI-207-H5			90-2445				
				SI-207-H3			91-2530	PSE-SNUB. REDUC.			
				SI-223-H3			88-2166				
				SI-223-H4			88-2380				
23	Safety Injection 1A	One	2	SI-207-H3			90-2444				
				SI-207-H5			90-2445				
		Two	2	SI-207-H3			91-2530				
				SI-207-H5			91-2530				
24	Safety Injection 1B	One	2	SI-223-H3			88-2166				
				SI-223-H4			88-2380				



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

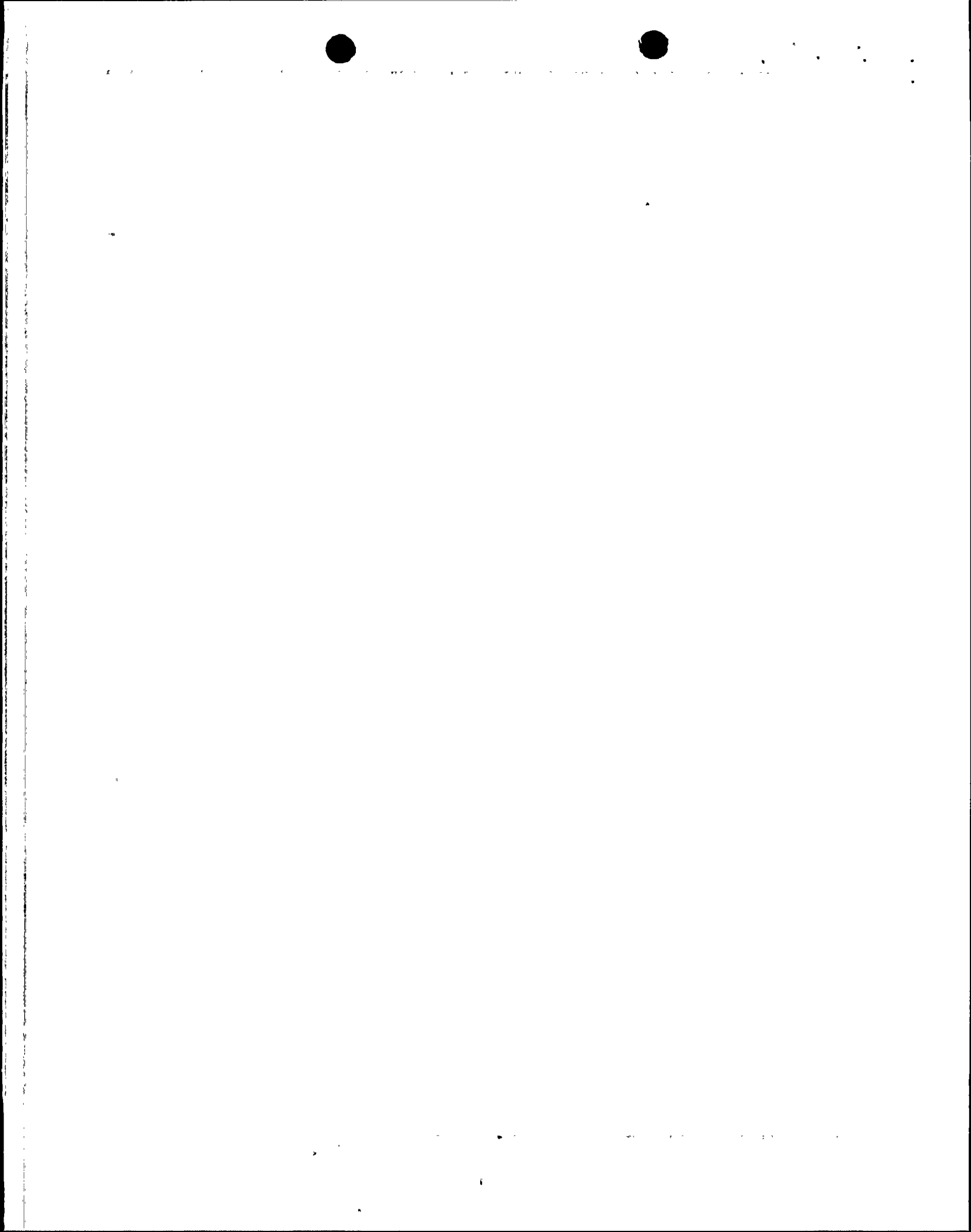
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
BIWF	24	Safety Injection 1B	Two	2	SI-223-H1			91-2285	PSE-SNUB. REDUC.
					SI-223-H1			91-2511	
	25	Safety Injection 2A	One	2	SI-223-H2			91-2286	
					SI-156-H7			88-2402	
	26	Safety Injection 2B	One	3	SI-156-H9			88-2168	
					SI-179-H9			88-2170	
			Two	3	SI-179-H10			88-2171	
					SI-179-H11			88-2172	
					SI-175-H21			91-2281	PSE-SNUB. REDUC.
					SI-175-H22			91-2512	
					SI-175-H23			91-2287	
	27	PZR Spray 1A	One	9	RC-62-H26			91-2288	
					RC-62-H27			90-2455	
					RC-62-H28			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	
	28	PZR Spray 1B	One	8	RC-17-H24			88-2335	
					RC-17-H34			88-2211	
					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	
	29	PZR Combined Spray	One	2	RC-18-H16			88-2218	
					RC-18-H18			88-2219	
	32	Drain 1A	One	2	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	
					37	Charging	One	14	CH-5-H2
								90-2368	PSE
					CH-5-H3			90-2223	
					CH-5-H10			88-2224	PSE
					CH-5-H25			88-2225	



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

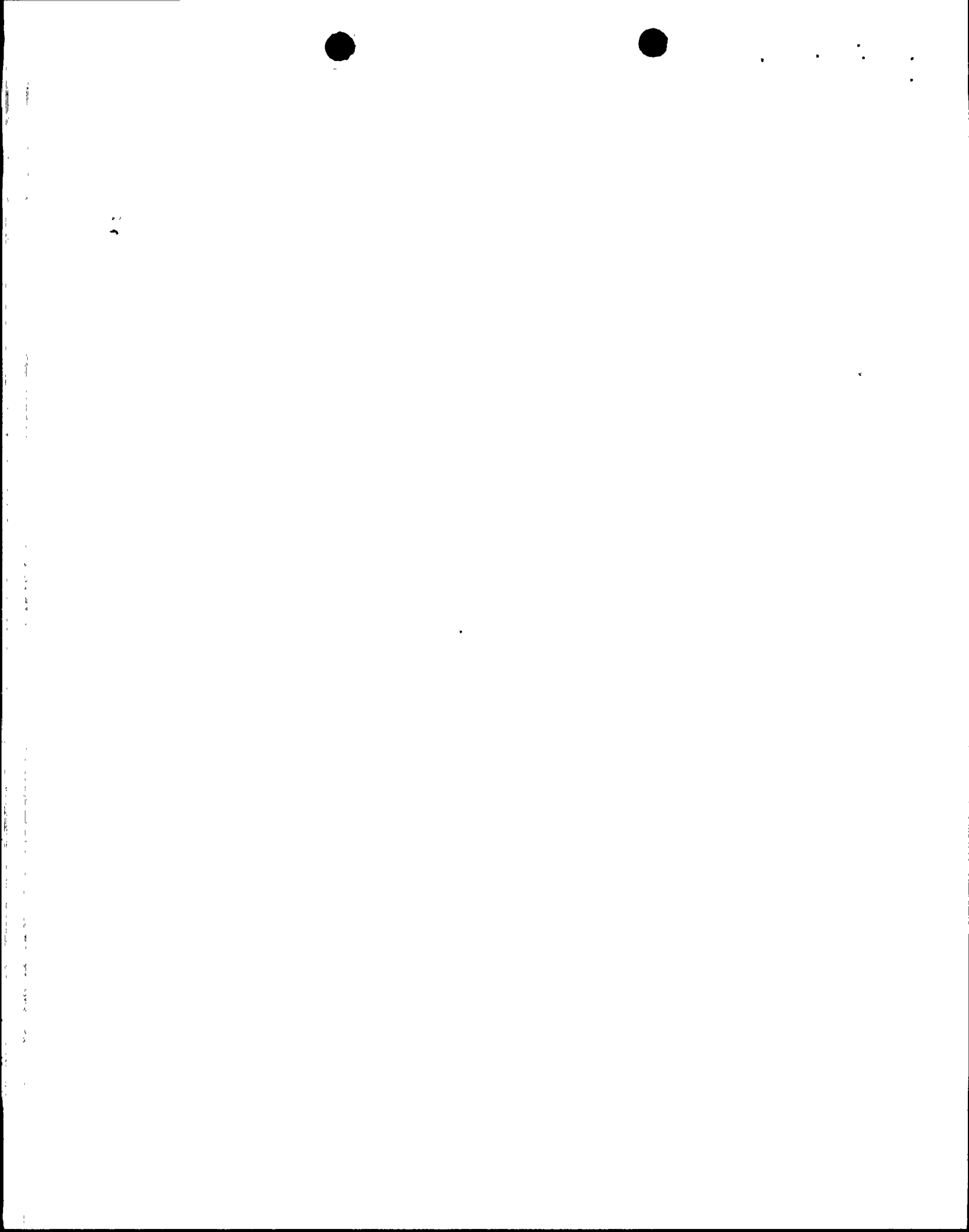
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks						
BIWF	37	Charging	One	14	CH-5-H26			88-2226							
					CH-5-H27			88-2227							
					CH-5-H28			88-2228							
					CH-5-H30			88-2229							
					CH-5-H34			88-2230							
					CH-5-H35			88-2231							
					CH-5-H36			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										
40	HPSI 2		One	3	SI-199-H13			90-2263	Re-exam						
					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				
					C 1.10	41	SG 1	One		1	SI-199-H18			91-2513	
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						
C1.20	41	SG 1	One	50%					41-5		90-2422				
											90-2423				
											90-2424				
					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					



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

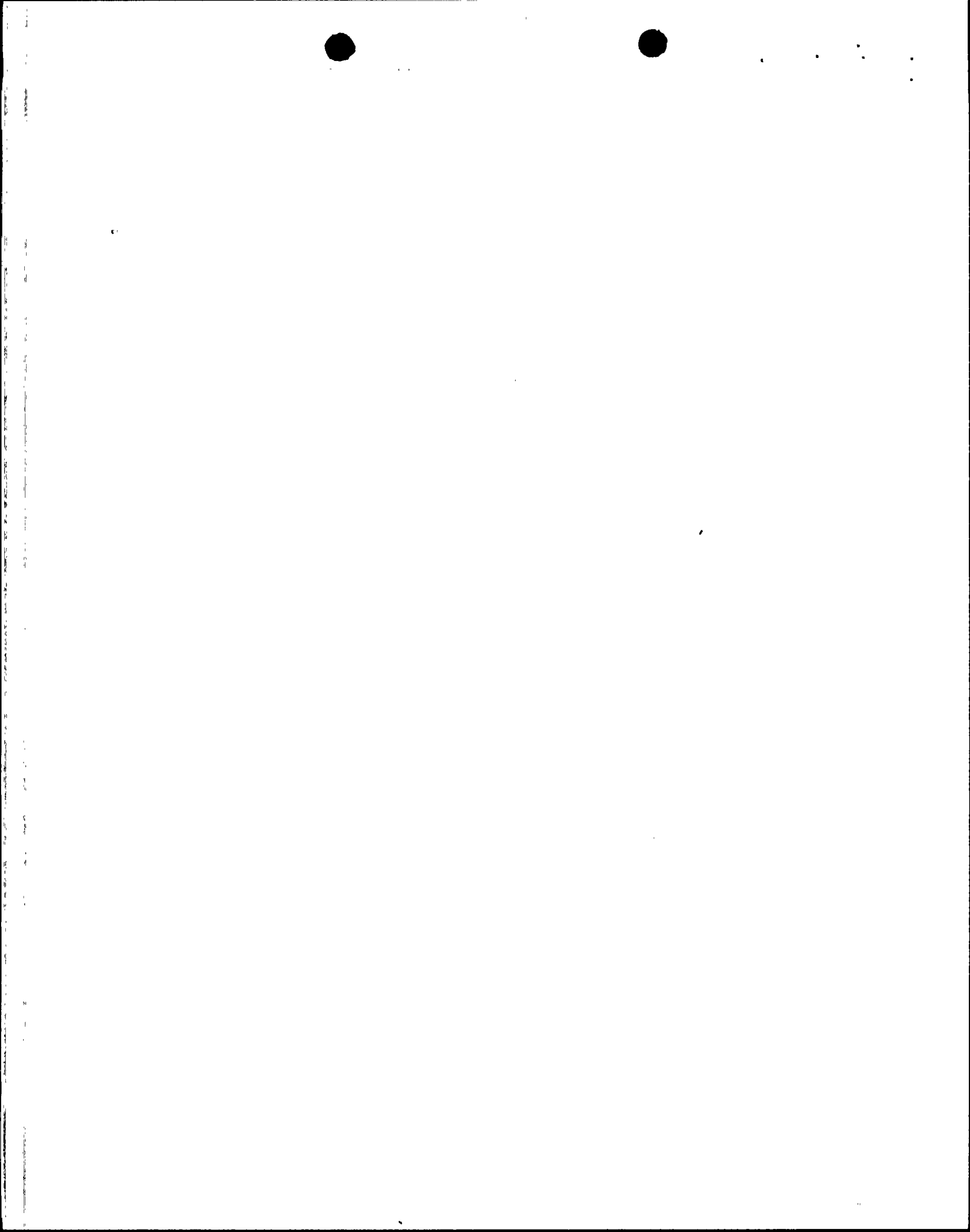
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
C 2.21 & C2.22	41	SG 1	One	1	41-16	90-2373	90-2358		
	42	SG 2	One	1	42-16	90-2350	90-2331		
	84	SD Cooling 1	Two	1	74-122	91-2220	91-2204		
						91-2225			
						91-2233			
						91-2203			Inner radius
C 3.10	41	SG 1	One	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			



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

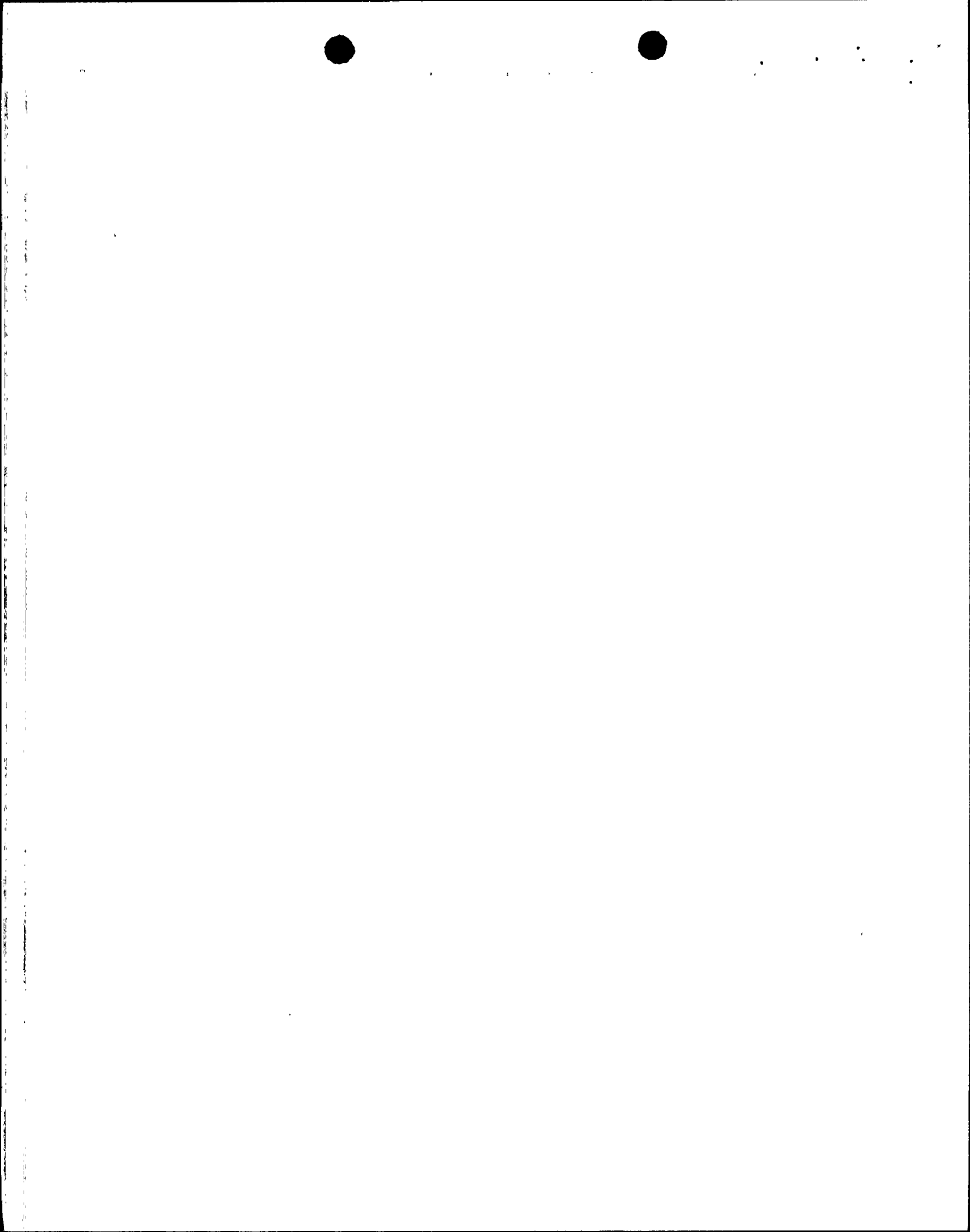
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks
C 4.40	56	FW SG 1	Two	20	V132 V174	91-2302 91-2303			
C 5.11 &C5.12	58	Aux & FW SG 1	One Two	1 2	58-1 58-12 58-13 58-16 58-16A	88-2370 91-2352 91-2351 91-2353 91-2354	88-2349 91-2332 91-2332 91-2336 91-2336		
	59	Aux & FW 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



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

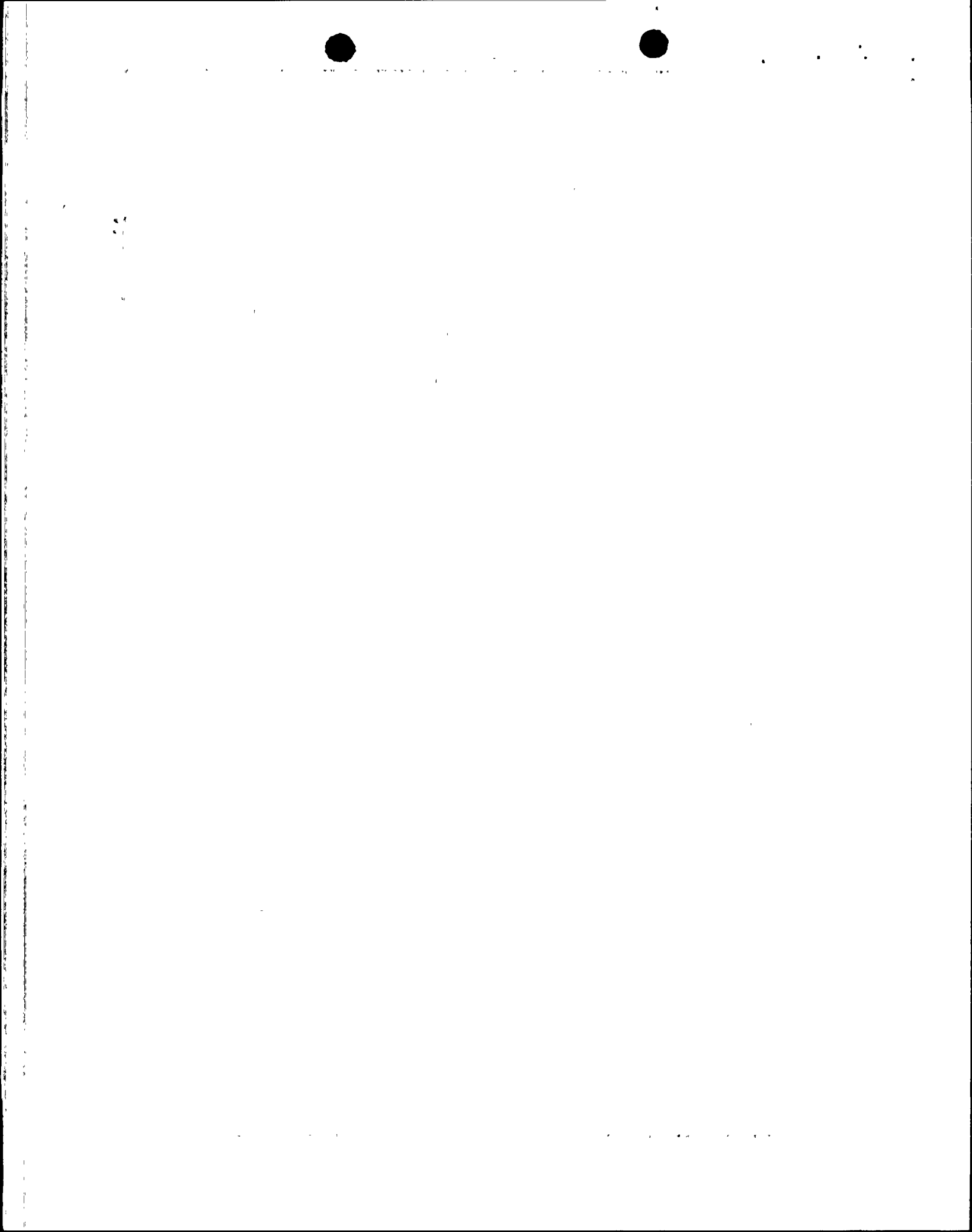
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks					
CIWF	41	SG 1	One	2	41-41			90-2429						
					41-42			90-2430						
43	MS SG 1 90		One	3	SG-36-H17			88-2281						
					SG-36-H884			88-2282						
					SG-36-H885			88-2283						
44	MS SG 1 270		One	2	SG-33-H17			88-2237						
					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						
53	Steam to Aux FW		Two	1	SG-70-H6			91-2536						
			One	4	SG-81-H1			88-2077						
54	FW SG 1		One	7	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						
					SG-2-H4			90-2266						
55	FW SG 2		One	9	SG-2-H5			90-2267						
					SG-2-H12			90-2382						
					SG-2-H13			90-2268	Reject Reject Re-exam					
								90-2394						
								90-2454						
								SG-2-H14		90-2269				
								SG-2-H15		90-2270				
								SG-2-H803		90-2383				
								SG-2-H806		90-2002				
								SG-5-H9		90-2311				
								SG-5-H10		90-2310				
								SG-5-H11		90-2312				
			SG-5-H12		90-2313									
56	FW SG 1		Two	1	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				
								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

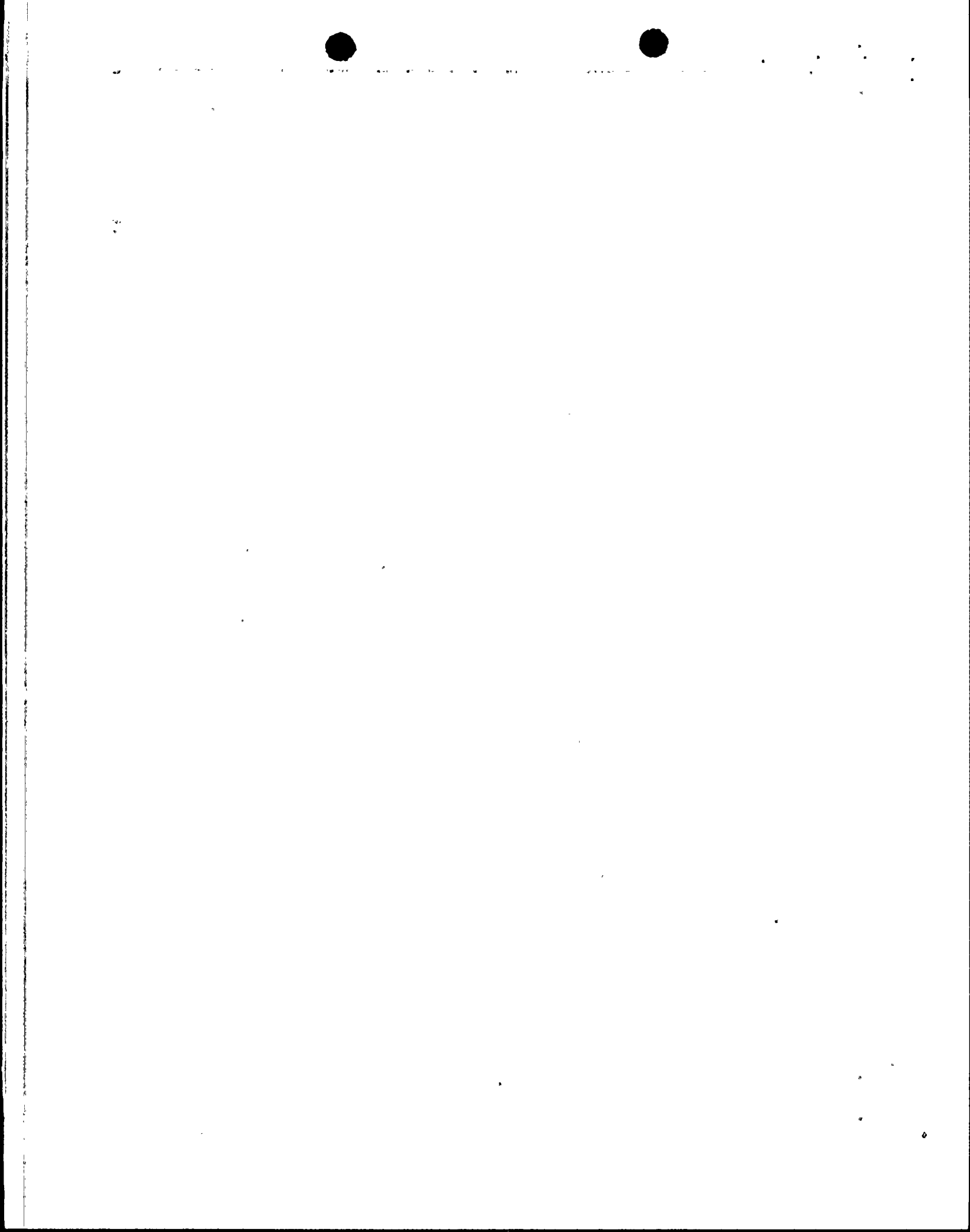
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks			
CIWF	58	Aux & FW SG 1	One	7	SG-8-H903			90-2427				
			Two	7	SG-8-H20			91-2376				
	59	Aux & FW SG 2	One	6	AF-6-H1			88-2257				
					SG-11-H8			88-2261				
					SG-11-H9			88-2260				
					SG-11-H10			88-2264				
					SG-11-H11			88-2263				
					SG-11-H12			88-2262				
					SG-200-H9			88-2404				
					SG-203-H13			91-2414				
					SG-203-H14			91-2415				
					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									
			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					
				SI-78-H1			91-2159					
				SI-78-H2			91-2246					
				SI-87-H1			91-2172					
				SI-87-H2			91-2188					
		Two	5	SI-87-H3			91-2161					
							91-2539	Re-exam				
72	LPSI Pump A	One	2	72-3B			88-2025					
				72-3C			88-2025					
				72-3A			91-2490					
73	LPSI Pump B Suction	Two	1	SI-308-H14			91-2169					



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

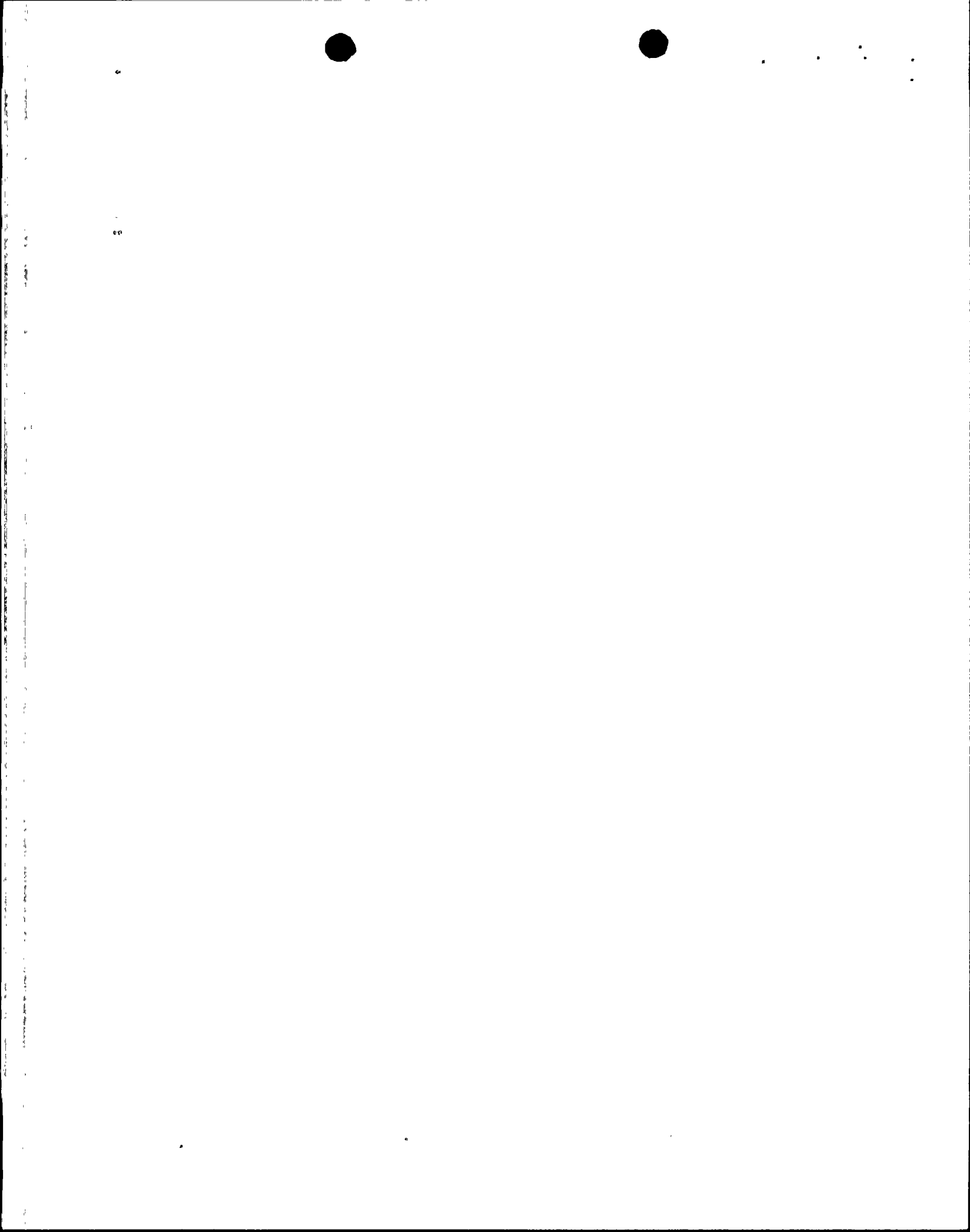
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks	
CIWF	75	LPSI Pump B Discharge	Two	1	73-3A			91-2499		
					73-3B			91-2499		
					73-3C			91-2499		
76	CS Pump A Suction	One	1	SI-9-H4			88-2002			
77	CS Pump A Discharge	One	4	SI-79-H1			88-2010			
				SI-79-H2			88-2009			
				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	
				One	3	SI-119-H7			88-2045	
80	CS Pump B Discharge	One	3	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

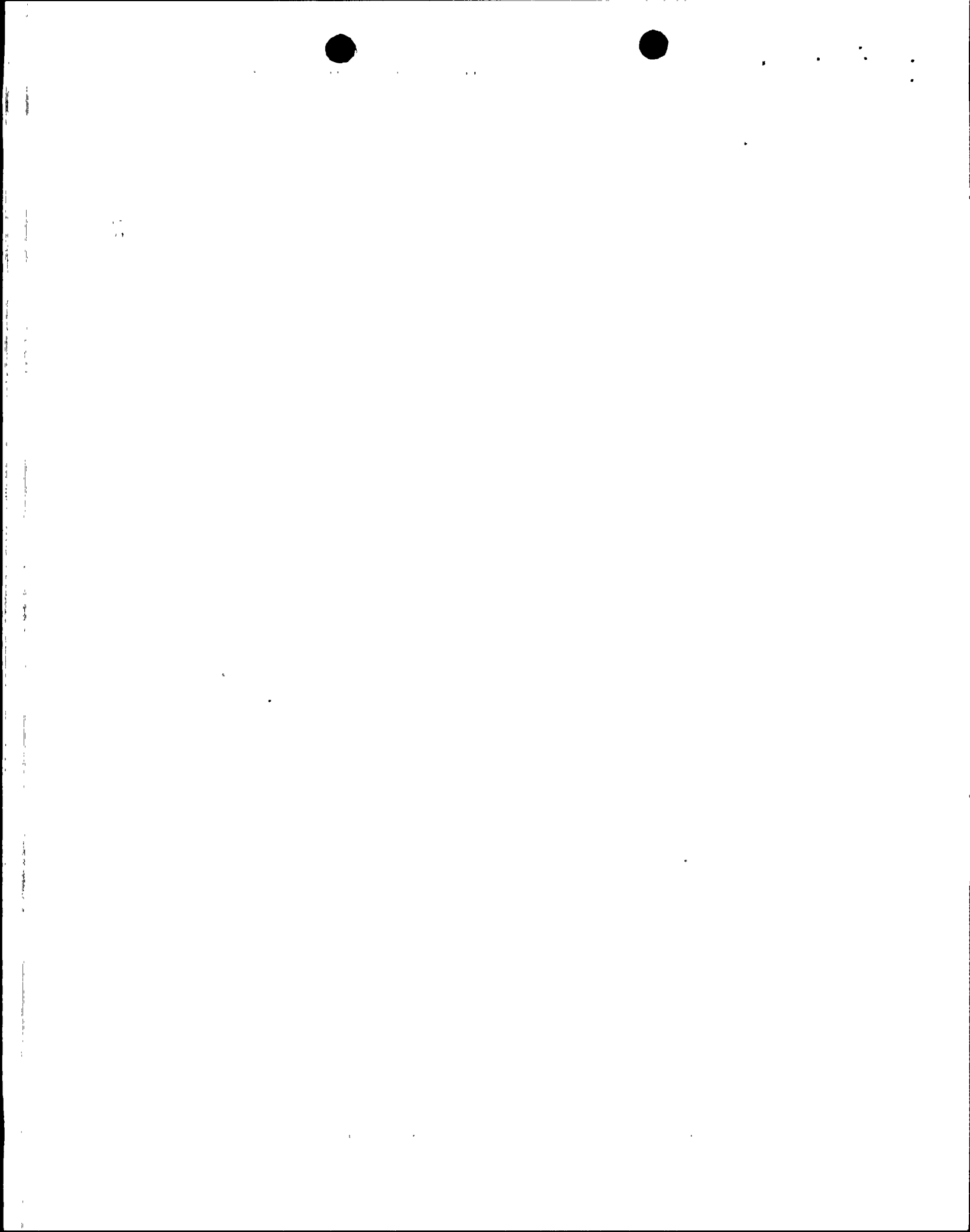
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks			
CIWF	86	SD Cooling B	Two	7	SI-72-H5			91-2147				
					SI-72-H6			91-2146				
					SI-129-H7			91-2152				
					SI-129-H8			91-2154				
					SI-135-H1			91-2163				
					SI-135-H2			91-2162				
					SI-135-H3			91-2164				
	88	LPSI B	One	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				
89	LPSI B	One	4	SI-73-H3			88-2073					
				SI-194-H12			88-2059					
				SI-194-H13			88-2060					
				SI-194-H14			88-2061					
				SI-194-H23			88-2062					
90	CS B	Two	2	SI-134-H9			91-2144					
				SI-134-H10			91-2150					
91	LPSI A	One	7	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					
				SI-70-H15			88-2149					
				SI-70-H16			88-2159					
						Two	2	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
93	CS Discharge 1	Two	2	SI-241-H16			91-2236					
				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					
							88-2052					
						Two	7	SI-89-H9			91-2240	
								SI-70-H4			91-2018	
								SI-70-H5			91-2029	
				SI-70-H8			91-2029					
				SI-241-H6			91-2197					



APPENDIX A

INSERVICE INSPECTION SUMMARY REPORT

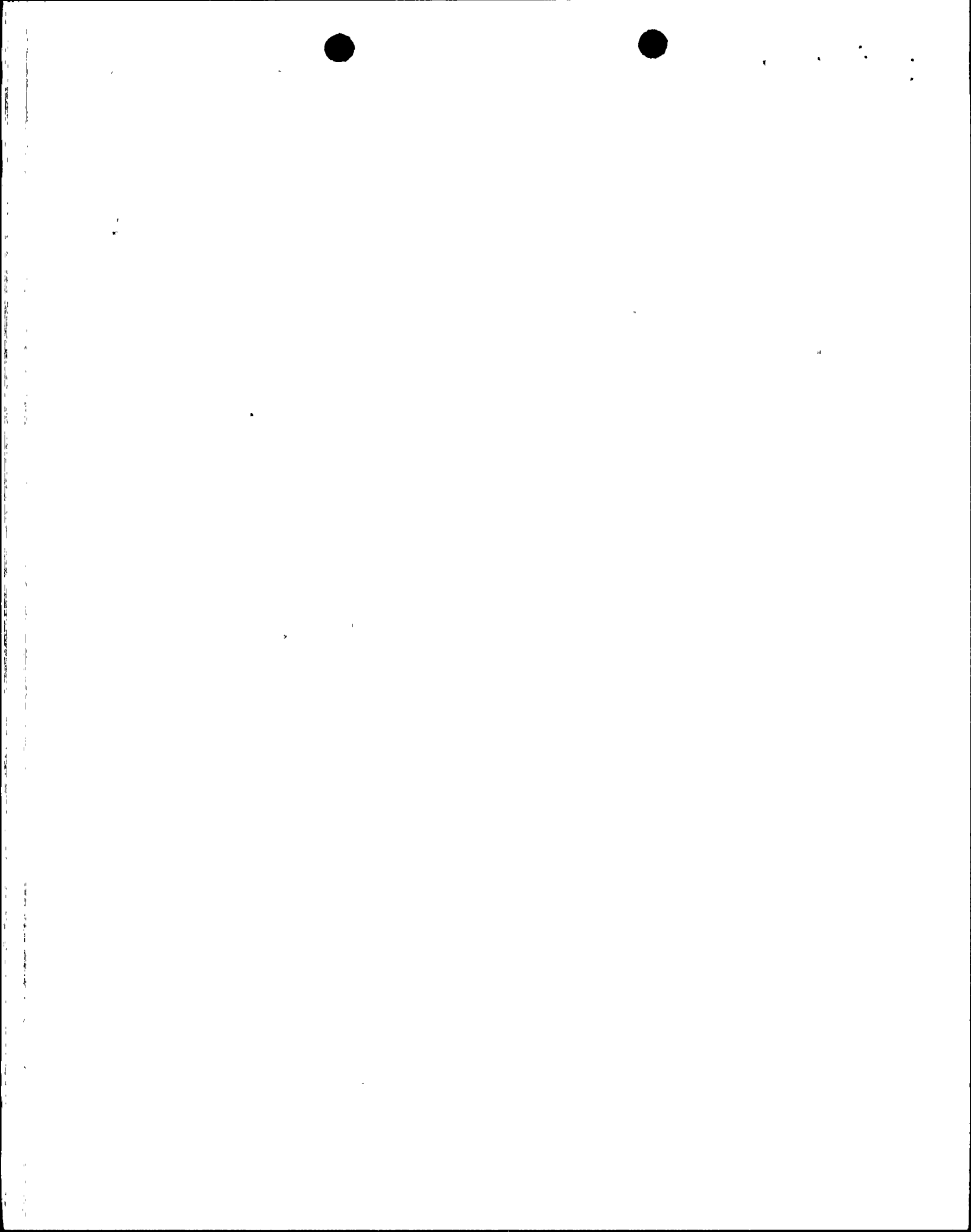
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks					
CIWF	94	LPSIA	Two	7	SI-241-H7			91-2196						
					SI-241-H8			91-2241						
	95	LPSI B	One	6	SI-241-H17			91-2242						
					SI-72-H8			88-2089						
					SI-72-H10			88-2090						
					SI-134-H11			88-2039						
					SI-134-H12			88-2040						
					SI-194-H3			88-2091						
			Two		Two	10	SI-194-H5			88-2092				
							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		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		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

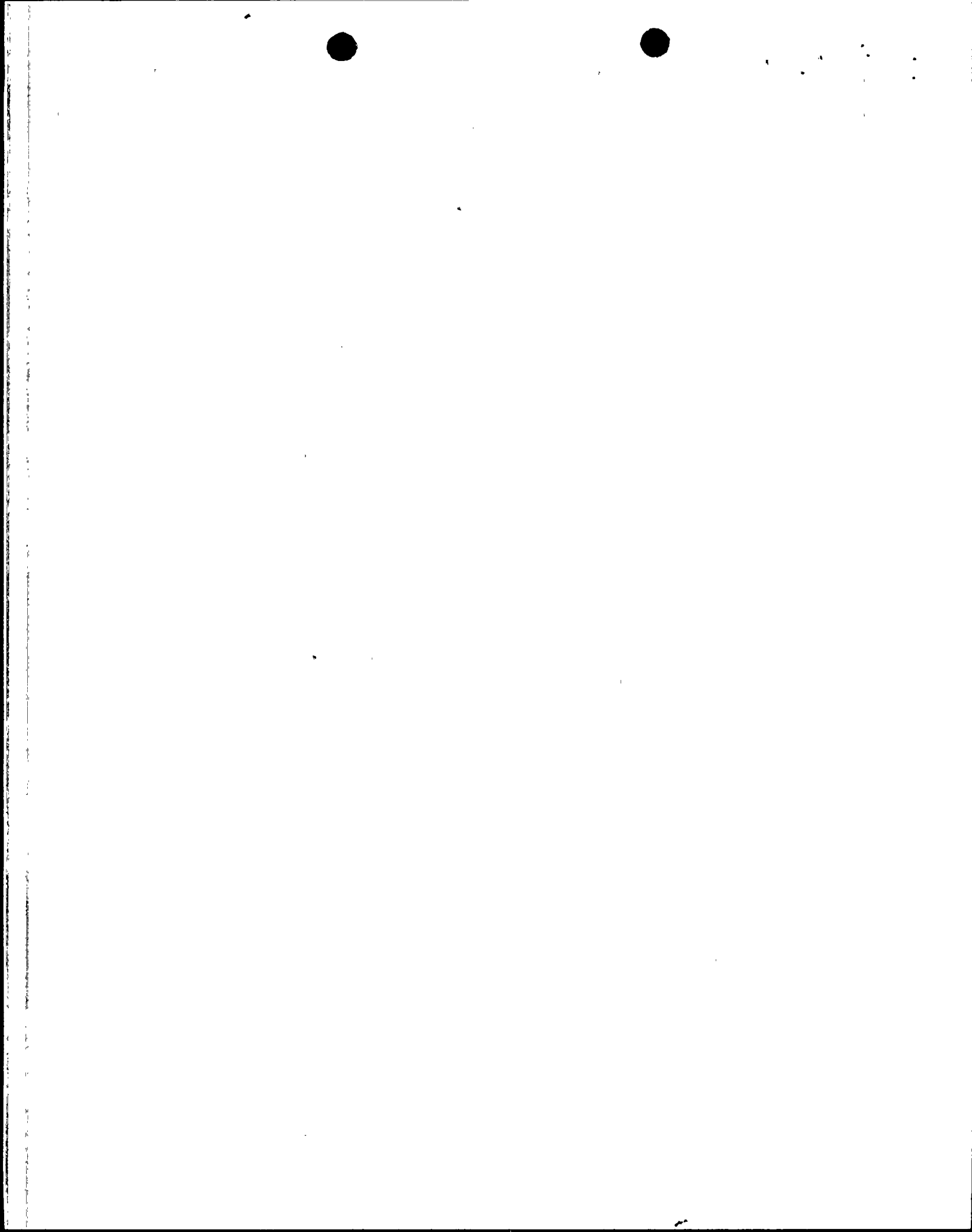
ASME Item no	Zone	Comp/sys	Insp per	Reqd	Item ID	Vol	Reports Surf	Visual	Remarks	
CIWF	97	LPSI To Loop 1B	Two	7	SI-220-H20			91-2322		
					SI-220-H21			91-2316		
					SI-220-H24			91-2522	PSE-SNUB. REDUC.	
					SI-220-H27			91-2520	PSE-SNUB. REDUC.	
					SI-220-H28			91-2317		
					SI-220-H29			91-2517	PSE-SNUB. REDUC.	
					SI-220-H29			91-2517	PSE-SNUB. REDUC.	
	98	LPSI To Loop 2A	One	2	SI-155-H5			88-2199		
					SI-155-H6			88-2200		
			Two	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	SI-174-H7			91-2438			
				SI-174-H8			91-2510			
				SI-174-H8			91-2524	PSE-SNUB. REDUC.		
				SI-174-H9			91-2321			
				SI-174-H10			91-2319			
				SI-174-H13			91-2436			
				SI-174-H13			91-2436			
100	LPSI A Suction	One	2	SI-241-H19			88-2185			
				SI-369-H1			88-2186			
FR 5.11 & 5.12	70	LPSI A Suction	Two	1	84-5			91-2527		
					One	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	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				
77	CS A Discharge	One	3	80-16	88-2016	88-2004				
				82-1	88-2018	88-2011				
79	CS Pump B Suction	One	3	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				
80	CS Pump B Discharge	Two	4*	82-31	91-2243	91-2459				
				81-12	91-2502	91-2485				
80	CS Pump B Discharge	Two	4*	81-15	91-2235	91-2005				
				83-1A	91-2487	91-2486				



APPENDIX A

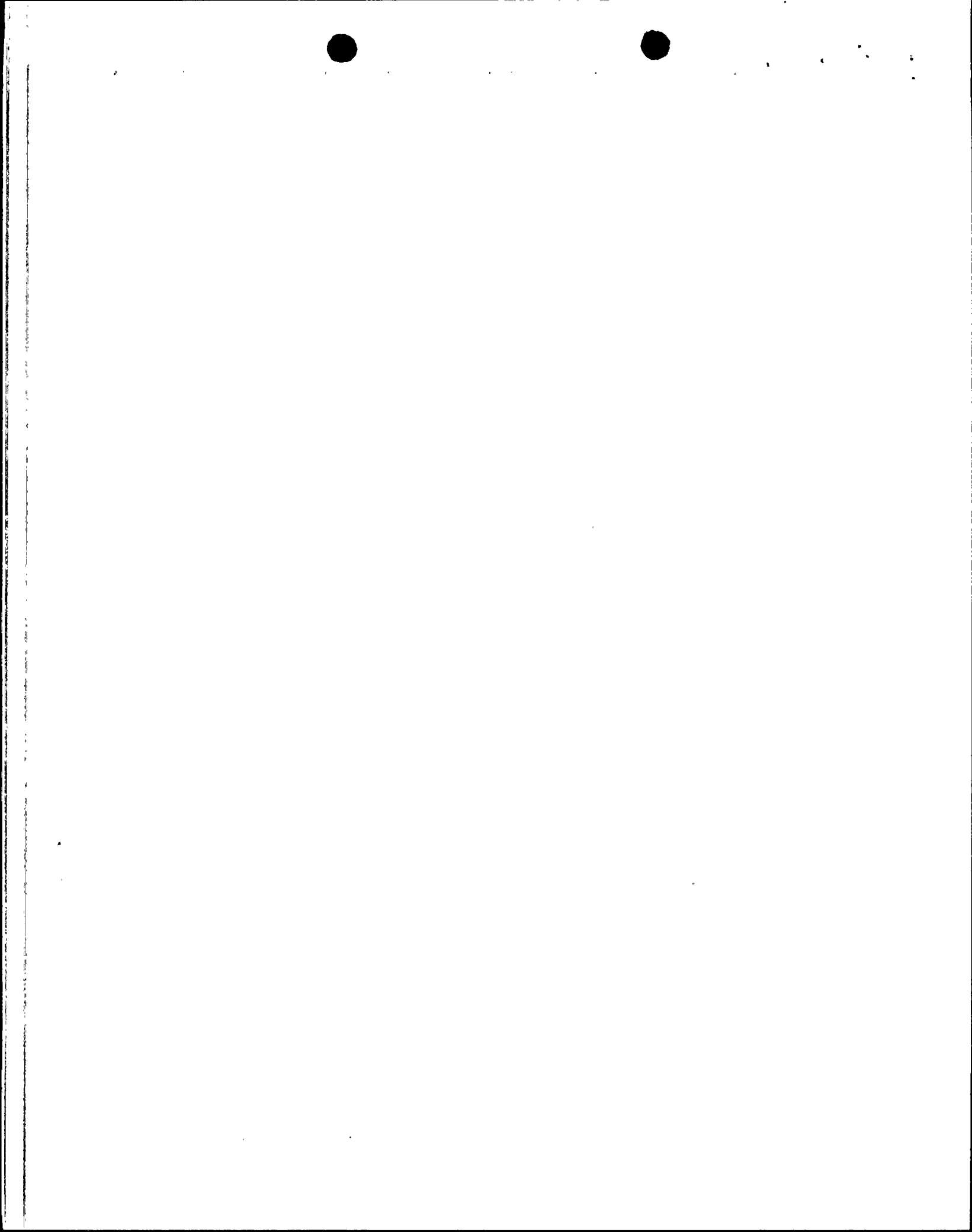
INSERVICE INSPECTION SUMMARY REPORT

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				
			Two	4*	72-61 72-52	88-2031 91-2210	88-2024 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			
						74-105	88-2034	88-2015			
					Two	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*	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				
						83-55	91-2213	91-2207			
	90	LPSI B	Two	4*	83-56	91-2212	91-2206				
						83-59	91-2209	91-2205			
	91	LPSI A	One	2	74-44	88-2273	88-2146				
						76-2	88-2277	88-2145			
					Two	2*	77-8	91-2223	91-2217		
	92	LPSI A			77-10D	91-2215	91-2216				
				One	5	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				
					70-85	88-2274	88-2152				
	94	LPSI A	One	2	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	*required between 2 zones	
	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			
FR 5.31 &5.32	82	SD Cooling A	One	1	72-49A		88-2024				
	91	LPSI A	One	1	74-102		88-2146				



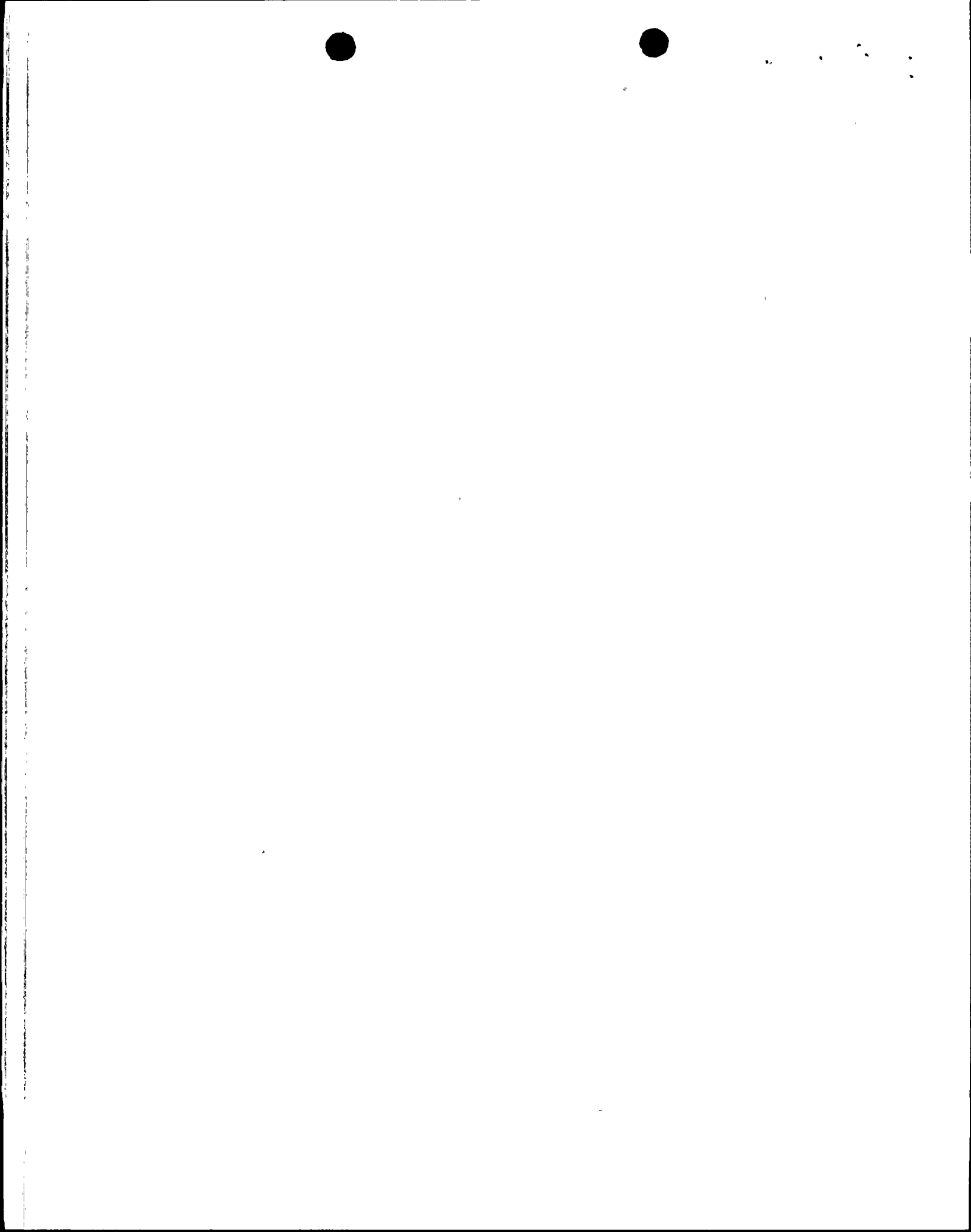
APPENDIX B

INSERVICE INSPECTION
CODE LIMITATIONS



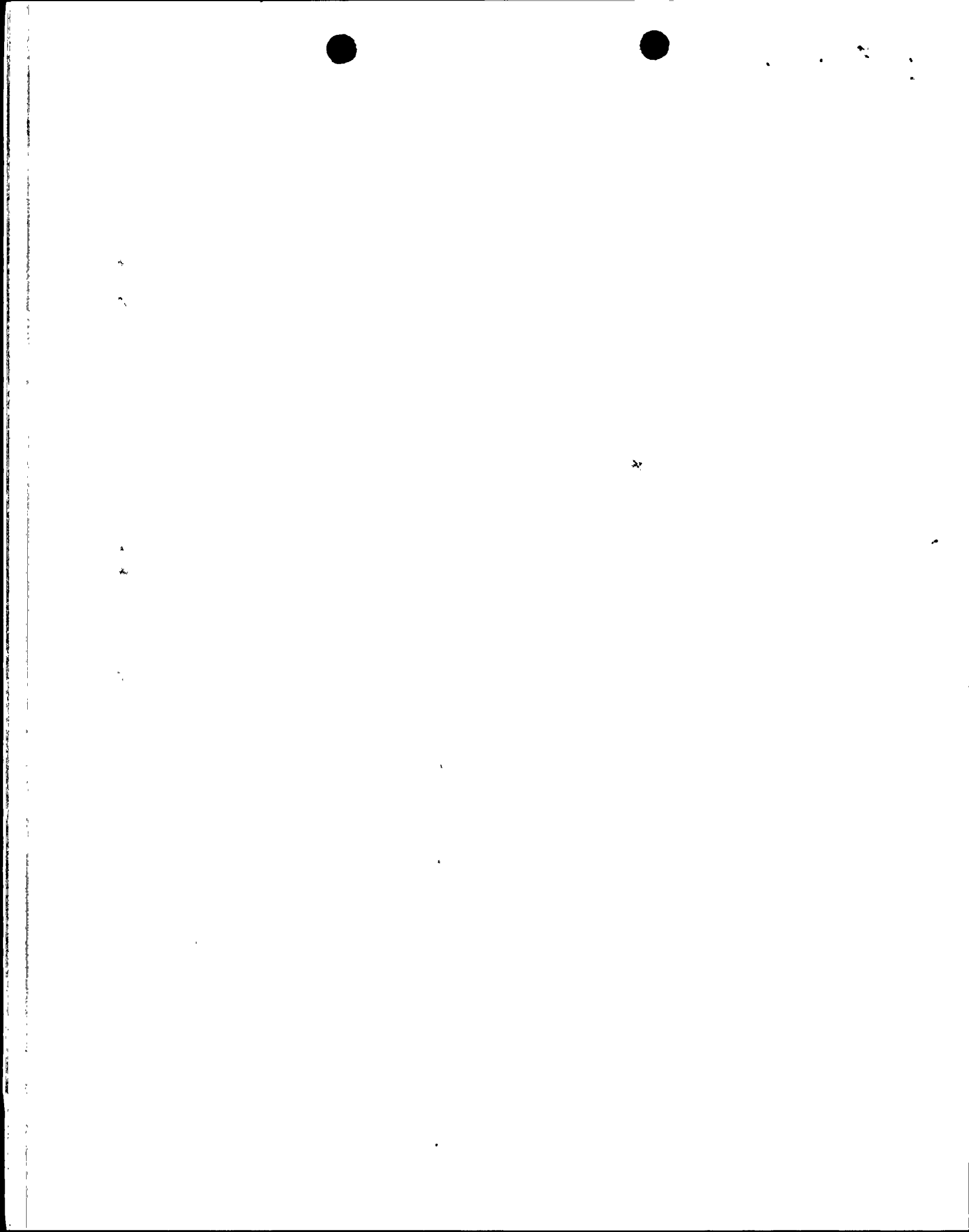
APPENDIX B
CODE LIMITATIONS

No Code Limitations identified
during Third Refueling Outage.



APPENDIX C

FORM
NIS-1



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
---------------------------	---------------------------	---------------	-------------------	-------------------

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.

1000

1000

1000

1000

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 [Signature]

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 [Signature] COMMISSIONS NB 9685 Az. 264
 NAT'L BOARD, STATE, PROVINCE
 DATE March 16, 1992

