



PENETRATION NO	TYPE	LINE DESCRIPTION	SYSTEM	LINE NO.	FLOW DIR.	DESIGN USE		DESIGN PRESS	DESIGN TEMP	MATERIAL	NOZZLE	WALL THICKNESS	NOZZLE THICKNESS	DIMENSION (EYE TO EYE)	THERMAL		PIPE RUPTURE	IMPINGEMENT	PIPE WEIGHT	BELLOWS MOVEMENT		C/S 2	TIMING	
						MAX. PRESS	MAX. TEMP								AXIAL	TRANS.				LAT. INCL.	VERT. INCL.			
1	I	MAIN STEAM	(SG. SA)	1-24-10-24	2399-G-073	24	CS	309	550	309	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2399-084
2	I	FEEDWATER	(SG. SA)	1-20-6F-14	2398-G-080	34	CS	309	550	309	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2399-085
3	I	FEEDWATER	(SG. SA)	1-20-6F-14	2398-G-080	20	CS	100	500	100	1/2	1	1	1	7.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2399-085
4	I	BLOWDOWN	(SG. SA)	1-2-B-2	2398-G-084	10	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-024
5	II	PRIM. WATER SUPPLY	(SG. SA)	1-2-6A-1	2398-G-084	11	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-025
6	II	STATION. AIR SUPPLY	(SG. SA)	1-2-6A-2	2398-G-084	12	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-026
7	II	INSTRUMENT AIR SUPPLY	(SG. SA)	1-2-6A-3	2398-G-084	13	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-027
8	II	HEV. CONTAINMENT PURGE	(SG. SA)	1-2-6A-4	2398-G-084	14	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-028
9	II	UNROSEN SUPPLY	(SG. SA)	1-2-6A-5	2398-G-084	15	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-029
10	II	RETURN AIR COOLER	(SG. SA)	1-2-6A-6	2398-G-084	16	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-030
11	II	SUPPLY	(SG. SA)	1-2-6A-7	2398-G-084	17	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-031
12	II	RETURN	(SG. SA)	1-2-6A-8	2398-G-084	18	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-032
13	II	SUPPLY	(SG. SA)	1-2-6A-9	2398-G-084	19	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-033
14	II	RETURN	(SG. SA)	1-2-6A-10	2398-G-084	20	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-034
15	II	SUPPLY	(SG. SA)	1-2-6A-11	2398-G-084	21	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-035
16	II	RETURN	(SG. SA)	1-2-6A-12	2398-G-084	22	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-036
17	II	SUPPLY	(SG. SA)	1-2-6A-13	2398-G-084	23	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-037
18	II	RETURN	(SG. SA)	1-2-6A-14	2398-G-084	24	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-038
19	II	FUEL TRANSFER TUBE	(SG. SA)	1-2-6A-15	2398-G-084	25	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-039
20	II	LEADWATER LINE	(SG. SA)	1-2-6A-16	2398-G-084	26	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-040
21	II	CHARGING LINE	(SG. SA)	1-2-6A-17	2398-G-084	27	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-041
22	II	SAMPLING HOT LEG	(SG. SA)	1-2-6A-18	2398-G-084	28	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-042
23	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-19	2398-G-084	29	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-043
24	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-20	2398-G-084	30	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-044
25	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-21	2398-G-084	31	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-045
26	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-22	2398-G-084	32	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-046
27	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-23	2398-G-084	33	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-047
28	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-24	2398-G-084	34	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-048
29	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-25	2398-G-084	35	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-049
30	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-26	2398-G-084	36	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-050
31	II	CONTAINMENT VENT HEADER	(SG. SA)	1-2-6A-27	2398-G-084	37	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-051
32	II	CONTAINMENT VENT SUCT.	(SG. SA)	1-2-6A-28	2398-G-084	38	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-052
33	II	CONTAINMENT VENT SUCT.	(SG. SA)	1-2-6A-29	2398-G-084	39	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-053
34	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-30	2398-G-084	40	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-054
35	II	CONTAINMENT SPRAY	(SG. SA)	1-2-6A-31	2398-G-084	41	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-055
36	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-32	2398-G-084	42	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-056
37	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-33	2398-G-084	43	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-057
38	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-34	2398-G-084	44	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-058
39	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-35	2398-G-084	45	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-059
40	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-36	2398-G-084	46	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-060
41	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-37	2398-G-084	47	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-061
42	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-38	2398-G-084	48	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-062
43	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-39	2398-G-084	49	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-063
44	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-40	2398-G-084	50	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-064
45	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-41	2398-G-084	51	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-065
46	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-42	2398-G-084	52	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-066
47	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-43	2398-G-084	53	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-067
48	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-44	2398-G-084	54	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-068
49	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-45	2398-G-084	55	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-069
50	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-46	2398-G-084	56	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-070
51	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-47	2398-G-084	57	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-071
52	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-48	2398-G-084	58	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-072
53	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-49	2398-G-084	59	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-073
54	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-50	2398-G-084	60	CS	305	550	305	3/8	1/2	3/8	1/2	4.0	11	11	1.1	11.0	3.0	1.0	1.5	1.0	2398-074
55	II	SAFETY INJECTION LOOP	(SG. SA)	1-2-6A-51	2398-G-084	61	CS	305	550	305	3/8	1/2	3/8	1/2	4.0									

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