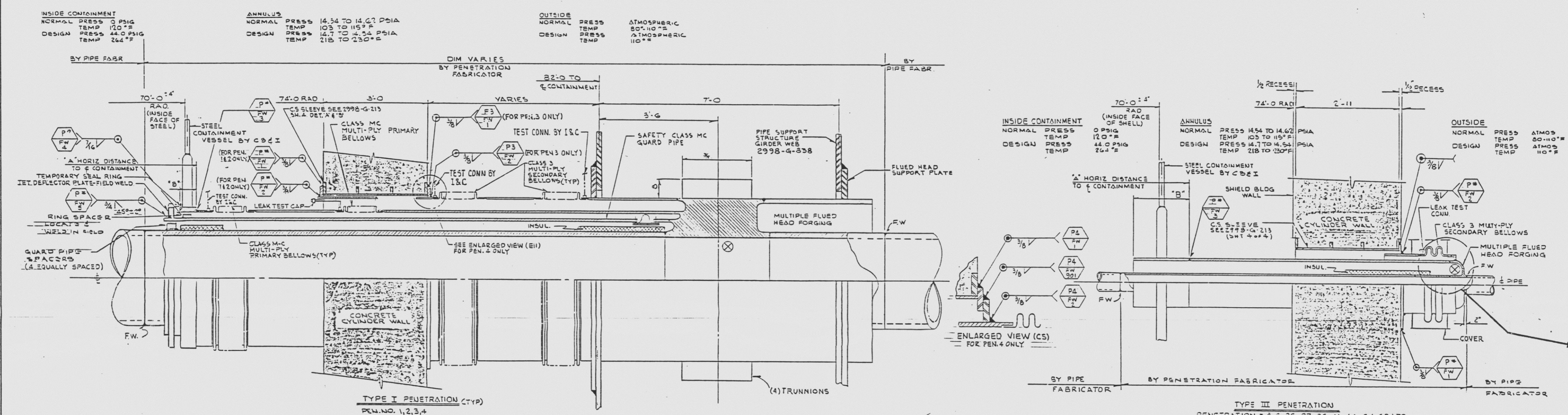


REVISIONS				
NO	DATE	DESCRIPTION	BY	CHK
7	11-19-11	ADD (M-1) CONTINUATION	JK	JK
8	11/19/11	ADD (M-3) FLOW DIAG. REF	JK	JK



PENETRATION NO	TYPE	SYSTEM	LINE NO.	FLOW DIAG.	VOLUME	MATERIAL	DESIGN PRESS	MAX OPER PRESS	DESIGN TEMP	MAX OPER TEMP	WALL THICKNESS	MATERIAL	WELD TYPE	CORROSION ALLOWANCE	CONC. PENETRATION	AXIAL ALIGNMENT	TORSION	SEISMIC SSE	PIPE RUPTURE	IMPACT	MOMENT	PIPE WEIGHT	BELLGOWNS	MOVEMENT	C.B.E.I.	TUBETURNS	NOZZLE PENETRATION	
																											EMDRAC	EMDRAC NF
1	I	MAIN STEAM (SG-1A)	I-34 MS-23	2998-G-078-1	34	CS	985	930	330	330	60	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
2	I	MAIN STEAM (SG-1B)	I-34 MS-24	2998-G-078-2	34	CS	985	930	330	330	60	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
3	I	FEEDWATER (SG-1A)	I-20 BF-4	2998-G-080-1	20	CS	1100	500	45	225	41.425	CS	41.425	0.1	1.7	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
4	I	FEEDWATER (SG-1B)	I-20 BF-10	2998-G-080-2	20	CS	1100	500	45	225	41.425	CS	41.425	0.1	1.7	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
5	II	SLOWDOWN (SG-2B)	I-2-B-1	2998-G-086-1	2	CS	985	930	330	330	12	CS	57.225	0.1	1.4	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
6	II	SLOWDOWN (SG-2A)	I-2-B-1	2998-G-086-1	2	CS	985	930	330	330	12	CS	57.225	0.1	1.4	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
7	II	PRIM. WATER SUPPLY	I-2-PW-7	2998-G-084	2	CS	985	930	330	330	12	CS	57.225	0.1	1.4	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
8	II	SATIONAIR SUPPLY	I-2-SA-12	2998-G-085-1	2	CS	150	125	100	115	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
9	II	INSTRUMENT AIR SUPPLY	I-2-IA-14	2998-G-085-2	2	CS	150	125	100	115	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
10	II	MIV CONTAINMENT PURGE	2998-G-078-48	48	0.19	CS	150	125	100	115	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
11	II	LITROGEN SUPPLY	2998-G-078-163	163	5.9	CS	300	150	700	100	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
12	II	CV RETURN FAN COOLER	I-8-CC-43	2998-G-083-5	5	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
13	II	SUPPLY	I-8-CC-39	2998-G-083-3	3	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
14	II	RETURNS	I-8-CC-44	2998-G-083-4	4	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
15	II	SUPPLY	I-8-CC-40	2998-G-083-2	2	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
16	II	RETURNS	I-8-CC-41	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
17	II	SUPPLY	I-8-CC-37	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
18	II	RETURNS	I-8-CC-42	2998-G-083-2	2	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
19	II	SUPPLY	I-8-CC-38	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
20	II	RETURNS	I-8-CC-15B	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
21	II	WATER SUPPLY REACTOR COOLANT PUMPS	I-8-CC-16A	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
22	II	FUEL TRANSFER TUBE	I-8-CC-16B	2998-G-083-1	1	CS	150	250	100	210	1.5	CS	3.869	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
23	II	LETDOWN LINE	I-2-CH-103	2998-G-078-101	101	CS	585	550	120	120	12	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
24	II	CHARGING LINE	I-2-CH-331	2998-G-078-102	102	CS	585	550	120	120	12	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
25	II	SAMPLING HOT LEG	2998-G-078-103	103	CS	585	550	120	120	12	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825	
26	II	SAMPLING COLD LEG	2998-G-078-104	104	CS	585	550	120	120	12	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825	
27	II	CONTAINMENT VENT HEADER	I-2-CH-105	2998-G-078-105	105	CS	585	550	120	120	12	CS	57.225	0.1	2.4	1.1	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
28	II	CONTAINMENT SUMP SUCT.	I-2-CC-14	2998-G-083-1	1	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
29	II	CONTAINMENT SUMP SUCT.	I-2-CC-15	2998-G-083-2	2	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
30	II	CONTAINMENT SPRAY	I-2-CC-16	2998-G-083-3	3	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
31	II	CONTAINMENT SPRAY	I-2-CC-17	2998-G-083-4	4	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
32	II	CONTAINMENT SPRAY	I-2-CC-18	2998-G-083-5	5	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
33	II	CONTAINMENT SPRAY	I-2-CC-19	2998-G-083-6	6	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
34	II	SAFETY INJECTION LOOP	I-2-CC-20	2998-G-083-7	7	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
35	II	SAFETY INJECTION LOOP	I-2-CC-21	2998-G-083-8	8	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
36	II	SAFETY INJECTION LOOP	I-2-CC-22	2998-G-083-9	9	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
37	II	SAFETY INJECTION LOOP	I-2-CC-23	2998-G-083-10	10	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
38	II	SAFETY INJECTION LOOP	I-2-CC-24	2998-G-083-11	11	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0	1.0	0.75	0.75	2998-825	2998-825	2998-825	2998-825
39	II	SAFETY INJECTION LOOP	I-2-CC-25	2998-G-083-12	12	CS	80	300	15	240	4	CS	3.333	0.1	1.0	1.0	11.0	3.3	62.0	53.6	1.0							