

NO.	REFERENCE DRAWINGS	REVISED	PL. NO.	REV. NO.
1	NUCLEAR BOILER P&ID UNIT-1	1-18-57	E-106246	1
2	COMPLETION A&P P&ID	M-128	E-106246	1
3	LEAKING P&ID	M-130	E-106246	1
4	LOW PRESSURE COOLANT P&ID	M-131	E-106246	1
5	RESIDUAL HEAT REMOVAL P&ID	M-141	E-106246	1
6	REACTOR CORE ISOLATION COOL P&ID	M-142	E-106246	1
7	REACTOR WATER CLEANUP P&ID	M-143	E-106246	1
8	REACTOR WATER TREATMENT P&ID	M-144	E-106246	1
9	NUCLEAR BOILER P&ID	M-145	E-106246	1
10	FEEDWATER P&ID	M-146	E-106246	1
11	MAIN STEAM P&ID	M-147	E-106246	1
12	CLEANING OF DEBRIS AND EQUIPMENT	M-148	E-106246	1
13	ISOLATION SCHEMATIC CONTROL DIAGRAM	M-149	E-106246	1
14	REACTOR PROT. SYSTEM	M-150	E-106246	1
15	FEEDWATER CONTROL SYSTEM IED	M-151	E-106246	1
16	FEEDWATER CONTROL SYSTEM IED	M-152	E-106246	1
17	REACTOR LEVEL	M-153	E-106246	1
18	NUCLEAR COMPLEX IAC DET. DESIGN SK	M-154	E-106246	1
19	CONCENTRATOR	M-155	E-106246	1
20	PROTECT. SPRAYING P&ID	M-156	E-106246	1
21	CONTAINMENT INSTR. GAS P&ID	M-157	E-106246	1
22	CODE SPRAY P&ID	M-158	E-106246	1
23	MSIV LEAKAGE CONTROL SYS P&ID	M-159	E-106246	1

- NOTES:**
- STEAM LINES & ASSOCIATED EQUIPMENT ENCLOSED IN BOXES SHALL HAVE PART NOS. CORRESPONDING TO THEIR RESPECTIVE LINE LETTER UNLESS OTHERWISE NOTED. EXAMPLE: XXXXXX IS ON LINE B, YYYYYY IS ON LINE C.
 - THE G.E. P&ID NUMBER FOR THIS SYSTEM IS B-1.
 - LOCATE PRESSURE TEST POINTS (P&ID) AS CLOSE AS POSSIBLE TO VALVE TO BE TESTED.
 - MAIN STEAM ISOLATION VALVE ISOLATION IS INITIATED BY ONE OF THE FOLLOWING CONDITIONS:
 - A. REACTOR LOW WATER LEVEL.
 - B. MAIN STEAM LINE HIGH RADIATION.
 - C. MAIN STEAM LINE HIGH FLOW.
 - D. LOW TURBINE INLET PRESSURE.
 - E. HIGH STEAM LINE TUNNEL TEMPERATURE.
 - F. LOW CONDENSER SUCCTION.
 - AUTO DEPRESSURIZATION FUNCTION (ADF) IS INITIATED BY THE FOLLOWING SIMULTANEOUS SIGNALS:
 - A. DRYWELL HIGH PRESSURE.
 - B. REACTOR WATER LOW LEVEL.
 - C. RHR OR CORE SPRAY PUMP MOTOR RUNNING.
 - MISCELLANEOUS VALVE NUMBERS USED ARE: 14-1001 THRU 14-1025 AND 14-1030 THRU 14-1035 DELETED.
 - FLOW ELEMENT FOR MAIN STEAM LINES B, C, D, AND E ARE 14-1022, 14-1023, AND 14-1024 RESPECTIVELY.
 - G.E. SUPPLIES MATING FLANGE EITHER NOZZLE GA OR GB MAY BE CONNECTED TO THE HEAD SPRAY LINE 3-DRAW LINE DETAILS.
 - REFER TO SMALL P&ID SCHEMATIC FOR SCHEMATIC 3-DRAW LINE DETAILS.
 - PT'S 14-1001, 14-1002, AND 14-1003 IS ON 14-1001. PT'S 14-1004 IS LOCALLY MOUNTED.
 - THE VALVE CONTROL SWITCH IS LOCATED ON THE VALVE OPERATOR.
 - THE SECOND ELEMENT IS ONLY USED ON STEAM LINE 'A' AND 'A' P&ID VALVES B, C & D.
 - SEE DESIGN SPEC. FOR VALVE DESIGN REFS. THIS SECTION 4.3 FOR ADDITIONAL DYNAMIC BEHAVIOR OF STEAM ANALYSIS REQUIREMENTS ON LINES D&E&F. THIS IS A CHANGE.
 - INSTALL ROOT VALVES TWO P&ID-GB PER ANALYSIS. NO. 14-1001, 14-1002, 14-1003 TO COMPLY WITH G.E. NEW CHECK CHECKS.

TABLE I. SAFETY / RELIEF VALVE LOCATION, SUFFIX ASSIGNMENT & ASSOCIATED EQUIPMENT

SAFETY / RELIEF VALVES (F013)	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S
RELIEF VALVE SPRING SET PRESSURE (PSIG)	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175	1175
ACCUMULATORS (ADST 1402-A)	150															
TEMPERATURE ELEMENT (F013-A)																
CHECK VALVES (F013-A)																
VACUUM BREAKER (F013-A)																
PRESSURE SWITCH (F013-A)																
PRESSURE SET POINT OF INJECT (PSIG)	1086	1074	1086	1074	1086	1074	1086	1074	1086	1074	1086	1074	1086	1074	1086	1074
POSITIONAL OF SET POSITION INDICATION SYSTEMS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
DEPRESSION INDICATION INSTR. (10% SET POINT)	81	A1	82	A2	83	A3	84	A4	85	A5	86	A6	87	A7	88	A8
DEPRESSION INDICATION INSTR. (10% SET POINT) ALARM	81	A1	82	A2	83	A3	84	A4	85	A5	86	A6	87	A7	88	A8
SOLENOID VALVES (ADS ASSGN.)																
SKY POSITION INDICATION COMPUTER POINTS - VALVE	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	94
VENT VALVE NO. ON 1/4" VALVE (F013-DETAILED)	14-1001	14-1002	14-1003	14-1004	14-1005	14-1006	14-1007	14-1008	14-1009	14-1010	14-1011	14-1012	14-1013	14-1014	14-1015	14-1016

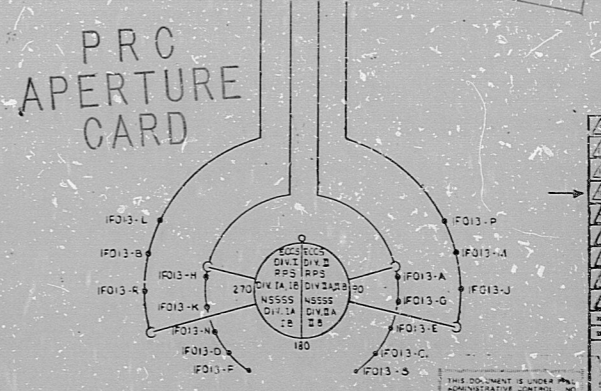


FIG. 1 SAFETY / RELIEF VALVE LOCATION AND SEPARATION ASSIGNMENT OF VESSEL INSTRUMENTATION

UNCONTROLLED DOCUMENT FOR REFERENCE ONLY

PRC APERTURE CARD

FIG. 1 SAFETY / RELIEF VALVE LOCATION AND SEPARATION ASSIGNMENT OF VESSEL INSTRUMENTATION

TABLE I. SAFETY / RELIEF VALVE LOCATION, SUFFIX ASSIGNMENT & ASSOCIATED EQUIPMENT

REVISIONS

NO.	DESCRIPTION	DATE	BY	CHKD.
1	REVISED PER CHANGE LIST FOR M-141	1-18-57		
2	REVISED PER CHANGE LIST FOR M-142	1-18-57		
3	REVISED PER CHANGE LIST FOR M-143	1-18-57		
4	REVISED PER CHANGE LIST FOR M-144	1-18-57		
5	REVISED PER CHANGE LIST FOR M-145	1-18-57		
6	REVISED PER CHANGE LIST FOR M-146	1-18-57		
7	REVISED PER CHANGE LIST FOR M-147	1-18-57		
8	REVISED PER CHANGE LIST FOR M-148	1-18-57		
9	REVISED PER CHANGE LIST FOR M-149	1-18-57		
10	REVISED PER CHANGE LIST FOR M-150	1-18-57		
11	REVISED PER CHANGE LIST FOR M-151	1-18-57		
12	REVISED PER CHANGE LIST FOR M-152	1-18-57		
13	REVISED PER CHANGE LIST FOR M-153	1-18-57		
14	REVISED PER CHANGE LIST FOR M-154	1-18-57		
15	REVISED PER CHANGE LIST FOR M-155	1-18-57		
16	REVISED PER CHANGE LIST FOR M-156	1-18-57		
17	REVISED PER CHANGE LIST FOR M-157	1-18-57		
18	REVISED PER CHANGE LIST FOR M-158	1-18-57		
19	REVISED PER CHANGE LIST FOR M-159	1-18-57		

GENERAL INFORMATION

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PERFORMANCE POWER & LIGHT COMPANY

REACTOR - 2400 FRANKLIN

P & ID UNIT-1 NUCLEAR BOILER

8856 M-141 16

E-106246

17"

11"

8.5"

8.5"

11"

17"

17"

11"

8.5"

8.5"

11"

17"

RIDS

8305250339

