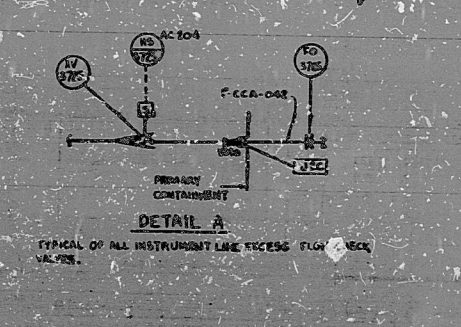


**EXCESS FLOW CHECK VALVE CROSS REFERENCE TABLE**

FLOW ORIFICE (F.O.)	VALVE	SOLENOID	ASSOCIATED LINE NUMBER
4728	AC204	J2C	V540 F-CCA-042
4729 A	AC204	J2C	V540 F-CCA-042
4729 B	AC204	J2C	V540 F-CCA-042
4729 C	AC204	J2C	V540 F-CCA-042
4729 D	AC204	J2C	V540 F-CCA-042
4729 E	AC204	J2C	V540 F-CCA-042
4729 F	AC204	J2C	V540 F-CCA-042
4729 G	AC204	J2C	V540 F-CCA-042
4729 H	AC204	J2C	V540 F-CCA-042
4729 I	AC204	J2C	V540 F-CCA-042
4729 J	AC204	J2C	V540 F-CCA-042
4729 K	AC204	J2C	V540 F-CCA-042
4729 L	AC204	J2C	V540 F-CCA-042
4729 M	AC204	J2C	V540 F-CCA-042
4729 N	AC204	J2C	V540 F-CCA-042
4729 O	AC204	J2C	V540 F-CCA-042
4729 P	AC204	J2C	V540 F-CCA-042
4729 Q	AC204	J2C	V540 F-CCA-042
4729 R	AC204	J2C	V540 F-CCA-042
4729 S	AC204	J2C	V540 F-CCA-042
4729 T	AC204	J2C	V540 F-CCA-042
4729 U	AC204	J2C	V540 F-CCA-042
4729 V	AC204	J2C	V540 F-CCA-042
4729 W	AC204	J2C	V540 F-CCA-042
4729 X	AC204	J2C	V540 F-CCA-042
4729 Y	AC204	J2C	V540 F-CCA-042
4729 Z	AC204	J2C	V540 F-CCA-042

**(CONTINUED FROM TABLE LEFT)**

MECH VALVE (F.V.)	SOLENOID	ASSOCIATED LINE NUMBER
2724 A	AC204	V530 F-CCA-233
2724 B	AC204	V530 F-CCA-233
2724 C	AC204	V530 F-CCA-233
2724 D	AC204	V530 F-CCA-233
2724 E	AC204	V530 F-CCA-233
2724 F	AC204	V530 F-CCA-233
2724 G	AC204	V530 F-CCA-233
2724 H	AC204	V530 F-CCA-233
2724 I	AC204	V530 F-CCA-233
2724 J	AC204	V530 F-CCA-233
2724 K	AC204	V530 F-CCA-233
2724 L	AC204	V530 F-CCA-233
2724 M	AC204	V530 F-CCA-233
2724 N	AC204	V530 F-CCA-233
2724 O	AC204	V530 F-CCA-233
2724 P	AC204	V530 F-CCA-233
2724 Q	AC204	V530 F-CCA-233
2724 R	AC204	V530 F-CCA-233
2724 S	AC204	V530 F-CCA-233
2724 T	AC204	V530 F-CCA-233
2724 U	AC204	V530 F-CCA-233
2724 V	AC204	V530 F-CCA-233
2724 W	AC204	V530 F-CCA-233
2724 X	AC204	V530 F-CCA-233
2724 Y	AC204	V530 F-CCA-233
2724 Z	AC204	V530 F-CCA-233



**SRM/IRM DETECTOR TABLE (SEE NOTE 1)**

DETECTOR	SRM DETECTOR POWER CHANNEL
CB-1E-MOD A	B
CB-1E-MOD B	B
CB-1E-MOD C	B
CB-1E-MOD D	B
CB-1E-MOD E	B
CB-1E-MOD F	B
CB-1E-MOD G	B
CB-1E-MOD H	B
CB-1E-MOD I	B
CB-1E-MOD J	B
CB-1E-MOD K	B
CB-1E-MOD L	B
CB-1E-MOD M	B
CB-1E-MOD N	B
CB-1E-MOD O	B
CB-1E-MOD P	B
CB-1E-MOD Q	B
CB-1E-MOD R	B
CB-1E-MOD S	B
CB-1E-MOD T	B
CB-1E-MOD U	B
CB-1E-MOD V	B
CB-1E-MOD W	B
CB-1E-MOD X	B
CB-1E-MOD Y	B
CB-1E-MOD Z	B

**NOTES (CONTINUED)**

- IF THERE ARE A SOURCE ONLY MONITOR (S.O.M.) DETECTORS OR INTERMEDIATE RANGE MONITOR (I.R.M.) DETECTORS (SEE SECTION 1.2.1), AND A SOURCE RANGE MONITOR (S.R.M.) DETECTOR (S.R.M.) (SEE SECTION 1.2.2), ALL OF WHICH ARE LOCATED WITHIN THE REACTOR CORE, THE DETECTOR LOCATIONS SHOULD BE WITHIN THE REACTOR CORE. SEE REF. 1, P. 17, 20 AND 30.
- ONLY SOURCE RANGE MONITOR (S.R.M.) DETECTORS SHOULD BE LOCATED AT EACH (S.O.M.) DETECTOR LOCATION. A SOURCE RANGE MONITOR (S.R.M.) DETECTOR SHALL BE LOCATED AT EACH (S.O.M.) DETECTOR LOCATION PER REF. 1, P. 17, 20 AND 30.
- THE DETECTOR POWER CHANNEL (D.P.C.) AND SIGNAL CHANNEL (S.C.) SHALL BE IDENTICAL TO THE DETECTOR CHANNEL EXCEPT THE ALPHA BURNER SHALL HAVE THE MOST SEQUENTIAL ALPHA CHARACTER (E.G. ALPHA-1 IS 2724, ALPHA-2 IS 2725, ALPHA-3 IS 2726, ALPHA-4 IS 2727).
- THESE INSTRUMENTS ARE G.E. M.P. SYSTEM C 30. THE POWER CHANNEL INSTRUMENTS ARE G.E. M.P. SYSTEM C 30. THE SIGNAL CHANNEL INSTRUMENTS ARE G.E. M.P. SYSTEM C 30.

**SYSTEM BB**

REFERENCE DRAWINGS	PROJECT NO.	CR
1 NUCLEAR BOILER VESSEL	41-100-00-01	1000000
2 REACTOR PROTECTION SYSTEM	41-100-00-02	1000000
3 REACTOR CONTROL SYSTEM	41-100-00-03	1000000
4 REACTOR MONITORING SYSTEM	41-100-00-04	1000000
5 HIGH PRESS. COOLANT INJECTION SYSTEM	41-100-00-05	1000000
6 REACTOR HEAT EXCHANGER SYSTEM	41-100-00-06	1000000
7 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-07	1000000
8 CORE SPRAY SYSTEM	41-100-00-08	1000000
9 REACTOR RECIRCULATION SYSTEM	41-100-00-09	1000000
10 DELAYED		
11 DELAYED		
12 JET PUMP INLET SYSTEM	41-100-00-10	1000000
13 REACTOR MANUAL CONTROL SYSTEM	41-100-00-11	1000000
14 NUCLEAR STEAM SUPPLY SYSTEM	41-100-00-12	1000000
15 AUTO DEPRESSURIZATION SYSTEM	41-100-00-13	1000000
16 LOSS OF COOLANT DETECTION SYSTEM	41-100-00-14	1000000
17 LOSS OF PRESS. MONITORING	41-100-00-15	1000000
18 NUCLEAR BOILER STEAM PUMP	41-100-00-16	1000000
19 LOSS OF COOLANT DETECTION SYSTEM	41-100-00-17	1000000
20 LOSS OF COOLANT DETECTION SYSTEM	41-100-00-18	1000000
21 NUCLEAR BOILER PROCESS STOP	41-100-00-19	1000000
22 CORE SPRAY SYSTEM	41-100-00-20	1000000
23 LOSS OF PRESS. CHECK VALVE	41-100-00-21	1000000
24 HIGH PRESS. COOLANT INJECTION SYSTEM	41-100-00-22	1000000
25 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-23	1000000
26 REACTOR HEAT EXCHANGER SYSTEM	41-100-00-24	1000000
27 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-25	1000000
28 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-26	1000000
29 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-27	1000000
30 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-28	1000000
31 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-29	1000000
32 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-30	1000000
33 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-31	1000000
34 REACTOR CORE ISOLATION COOLING SYSTEM	41-100-00-32	1000000

**TI APERTURE CARD**

**NOTES**

- EACH TIC JUNCTION BOX IS TO HAVE ITS OWN SET OF TERMINALS (G.E. 1-3) SEE REF. 1.
- AN EXPANSION LEG SHALL BE PROVIDED IN THE INSTRUMENT SENSING LINE BETWEEN CC-1002 AND THE BOSTON-THEAT PENETRATION SEAL THROUGH BOTTOM OF REACTOR VESSEL. THE EXPANSION LEG PIPING INSTALLATION SHALL BE DESIGNED TO ALLOW FOR MAXIMUM CHANGE OF VESSEL LENGTH WITH TEMPERATURE TO AVOID OPERATING THE PIPING OR THE SEAL OR DAMAGING THE INSULATION AROUND THE VESSEL. A TEMPORARY STRAPDOWN SHALL BE PROVIDED WITH WIRE TIE LOCALS IN CHARGE. EXCESS LEGS SHALL BE UPPER RANGE COILS WHEN CHANNELS TO BE DAMAGED.
- PIPING IS IDENTIFIED WITH THE SYSTEM IDENTIFIED BY THE REACTOR PROTECTION SYSTEM OR SAFEGUARD SYSTEM LEVEL AND PRESSURE SWITCHES ARE SHOWN IN FIG. 1 FOR THE PARTICULAR SYSTEM.
- THE G.E. M.P. ALUMINUM PIPE TYPE SYSTEM IS B-21.
- INSTRUMENT FUNCTIONS AND ASSOCIATED TRAYS ARE SHOWN IN TABLES 1 & 2 ON SHEET 2 OF THIS DRAWING.
- DELETED.
- EXCESS FLOW CHECK VALVE STATUS LIGHTS AND RESET SWITCHES ARE LOCATED ON REMOTE CONTROL PANELS. IS NOTED, ALARMS AND COMPUTER READOUTS FOR ABNORMAL CONDITIONS WILL BE MONITORED FROM THE CONTROL ROOM. SEE REF. 1.
- ISOLATED JET PUMP 3 IS HIGH PRESSURE CONTAINER. JET PUMP INCLUDING EXCESS FLOW CHECK VALVE IS TO BE USED TO REMOVE JET PUMP DIFFERENTIAL PRESSURE (27-4659) AND REACTOR SHOWN LEVEL (LT-1000A) IS SHOWN. ISOLATED JET PUMP 3 IS HIGH PRESSURE CONTAINER INCLUDING EXCESS FLOW CHECK VALVE. AT 27-4659 IS USED TO REMOVE JET PUMP DIFFERENTIAL PRESSURE (27-4659) REACTOR SHOWN LEVEL (LT-1000A) CALCULATED JET PUMP 3 AND JET PUMP 3 IS USED TO REMOVE JET PUMP DIFFERENTIAL PRESSURE ONLY.
- ENTER IN PLACE OF CONTAINING INSTRUMENTS TO BE IDENTIFIED TO A VERGEO MOBILE WITH A SLIP TO PLACE THE CHAMBER HEIGHT 2-3" FROM THE REACTOR FOR SOURCE RANGE MONITOR (S.R.M.) DETECTOR. THE JET PUMP DETECTORS (F.O.) MUST BE LOCATED CLOSE TO R.V. NOZZLES AS PRACTICAL.
- THIS FIGURE CONTAINS SYSTEMS OF PORTION OF SYSTEMS:
  - CB - CORE SPRAY
  - CD - MAIN STEAM
  - CE - CORE HYDRAULIC SUPPLY
  - CF - CORE HYDRAULIC SUPPLY
  - CG - REACTOR PROTECTION
  - CH - CONTAINMENT COOLABLE GAS CONTROL
  - CI - NUCLEAR STEAM SUPPLY SYSTEM
  - CJ - REACTOR HEAT EXCHANGER SYSTEM
  - CK - REACTOR HEAT EXCHANGER SYSTEM
  - CL - REACTOR HEAT EXCHANGER SYSTEM
  - CM - REACTOR HEAT EXCHANGER SYSTEM
  - CN - REACTOR HEAT EXCHANGER SYSTEM
  - CO - REACTOR HEAT EXCHANGER SYSTEM
  - CP - REACTOR HEAT EXCHANGER SYSTEM
  - CQ - REACTOR HEAT EXCHANGER SYSTEM
  - CR - REACTOR HEAT EXCHANGER SYSTEM
  - CS - REACTOR HEAT EXCHANGER SYSTEM
  - CT - REACTOR HEAT EXCHANGER SYSTEM
  - CU - REACTOR HEAT EXCHANGER SYSTEM
  - CV - REACTOR HEAT EXCHANGER SYSTEM
  - CW - REACTOR HEAT EXCHANGER SYSTEM
  - CX - REACTOR HEAT EXCHANGER SYSTEM
  - CY - REACTOR HEAT EXCHANGER SYSTEM
  - CZ - REACTOR HEAT EXCHANGER SYSTEM

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PDR RIDS

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