



- NOTES**
1. PIPING SCHEDULE 140 MUST BE ADHERED TO DUE TO SAFETY. UNLESS FLOW RESTRICTION IS SPECIFIED.
  2. LOCATE VALVES AS CLOSE TOGETHER AND AS CLOSE TO REACTOR COOLANT PIPING AS POSSIBLE.
  3. FLOW RESTRICTOR DETAIL PROVIDED ON DRAWING CH-1562-4.
  4. CLEAR ANY OTHER CHECK VALVE (C/V) MUST BE LESS THAN OR EQUAL TO 60°.
  5. RESIDUAL HEAT REMOVE TANK FOR CRYST DRAINAGE INTO HMD CARRIED VESSEL.
  6. WELVE PROVIDED WITH SOFT SEAT.
  7. BLIND FLANGES NORMALLY INSTALLED. SPOOL PIECE TO BE INSTALLED DURING ACCUMULATOR DRAINING, ONLY AFTER DEPRESSURIZATION.
  8. WASTE-PURPOSE CONNECTION TO BE USED AS BOTH TELL-TALE AND SAMPLE POINT.
  9. CONSTRUCTION VENTS & DRAINS.
  10. PARALLEL FLANGES WITH A MINIMUM STRAIGHT PIPING RUN OF 1' BOTH UPSTREAM AND DOWNSTREAM NOT INCLUDING SECTION BETWEEN FLANGER FLANGES.

**DESIGN PARAMETERS**

LINE LISTING	PIPE SPEC.	PRESSURE	TEMP.	CLASS	MATERIAL
00	2001.0	2750 PSIA	300°F	B	SS
01	2501.0	2750 PSIA	300°F	B	SS
02	2501.0	2750 PSIA	300°F	B	SS
03	2501.0	2750 PSIA	300°F	B	SS
04	2501.0	2750 PSIA	300°F	B	SS
05	2501.0	2750 PSIA	300°F	B	SS
06	2501.0	2750 PSIA	300°F	B	SS
07	2501.0	2750 PSIA	300°F	B	SS
08	2501.0	2750 PSIA	300°F	B	SS
09	2501.0	2750 PSIA	300°F	B	SS
10	2501.0	2750 PSIA	300°F	B	SS
11	2501.0	2750 PSIA	300°F	B	SS
12	2501.0	2750 PSIA	300°F	B	SS
13	2501.0	2750 PSIA	300°F	B	SS
14	2501.0	2750 PSIA	300°F	B	SS
15	2501.0	2750 PSIA	300°F	B	SS
16	2501.0	2750 PSIA	300°F	B	SS
17	2501.0	2750 PSIA	300°F	B	SS
18	2501.0	2750 PSIA	300°F	B	SS
19	2501.0	2750 PSIA	300°F	B	SS
20	2501.0	2750 PSIA	300°F	B	SS
21	2501.0	2750 PSIA	300°F	B	SS
22	2501.0	2750 PSIA	300°F	B	SS
23	2501.0	2750 PSIA	300°F	B	SS
24	2501.0	2750 PSIA	300°F	B	SS
25	2501.0	2750 PSIA	300°F	B	SS
26	2501.0	2750 PSIA	300°F	B	SS
27	2501.0	2750 PSIA	300°F	B	SS
28	2501.0	2750 PSIA	300°F	B	SS
29	2501.0	2750 PSIA	300°F	B	SS
30	2501.0	2750 PSIA	300°F	B	SS
31	2501.0	2750 PSIA	300°F	B	SS
32	2501.0	2750 PSIA	300°F	B	SS
33	2501.0	2750 PSIA	300°F	B	SS
34	2501.0	2750 PSIA	300°F	B	SS
35	2501.0	2750 PSIA	300°F	B	SS
36	2501.0	2750 PSIA	300°F	B	SS
37	2501.0	2750 PSIA	300°F	B	SS
38	2501.0	2750 PSIA	300°F	B	SS
39	2501.0	2750 PSIA	300°F	B	SS
40	2501.0	2750 PSIA	300°F	B	SS
41	2501.0	2750 PSIA	300°F	B	SS
42	2501.0	2750 PSIA	300°F	B	SS
43	2501.0	2750 PSIA	300°F	B	SS
44	2501.0	2750 PSIA	300°F	B	SS
45	2501.0	2750 PSIA	300°F	B	SS

PRC APERTURE CARD

AUTHORIZED PRESSURE BOUNDARY REVISION - REV. 4 (C010-8/27/82)  
 CLEARED FOR PRESSURE BOUNDARY TESTING - REV. 4 (C007-4/23/81)

NO.	REVISIONS	DATE	APP.	DATE	CHK.	DATE	APP.
1	REV. PER C007 THRU C010						
2	REV. PER C003, 04, 05, 06						
3	REV. PER C005						
4	REV. FOR C010-8/27/82						
5	REV. FOR C010-8/27/82						
6	REV. FOR C010-8/27/82						
7	REV. FOR C010-8/27/82						
8	REV. FOR C010-8/27/82						
9	REV. FOR C010-8/27/82						
10	REV. FOR C010-8/27/82						
11	REV. FOR C010-8/27/82						
12	REV. FOR C010-8/27/82						
13	REV. FOR C010-8/27/82						
14	REV. FOR C010-8/27/82						
15	REV. FOR C010-8/27/82						
16	REV. FOR C010-8/27/82						
17	REV. FOR C010-8/27/82						
18	REV. FOR C010-8/27/82						
19	REV. FOR C010-8/27/82						
20	REV. FOR C010-8/27/82						

**QA CONDITION 2**  
**QA CONDITION 1**

**DUKE POWER COMPANY**  
 (TWINER INCLUSTER STATION UNIT 1)

**FLOW DIAGRAM OF**  
**SAFETY INJECTION SYSTEM**

NO. 1553-1.0  
 DWG. NO. CH-1562-1.1

8212130344

11

11

5.8

8.5"

11"

11

11

5.8

8.5"

11"

17"

Rids

8212130344

