



- NOTES:
1. PIPING SCHEDULE 140 MUST BE ADHERED TO DUE TO SAFETY ANALYSIS FLOW REQUIREMENTS.
 2. LOCATE VALVES AS CLOSE TOGETHER AND AS CLOSE TO REACTOR COOLANT PIPING AS POSSIBLE.
 3. FLOW RESTRICTOR DETAIL PROVIDED ON DRAWING CN-1568-4.
 4. CLEAR ANY SWIND CHECK VALVE (L/D) MUST BE LESS THAN OR EQUAL TO (R).
 5. ARRANGE TELL-TALE FOR EASY DRAINAGE INTO HAND CARRIED VESSEL.
 6. VALVE PROVIDED WITH SOFT SEAT.
 7. BLIND FLANGES NORMALLY INSTALLED. SPOOL PIECE TO BE INSTALLED DURING ACCUMULATOR DRAINING, ONLY AFTER DEPRESSURIZATION.
 8. MULTI-PURPOSE CONNECTION TO BE USED AS BOTH TELL-TALE AND SAMPLE POINT.
 9. CONSTRUCTION VENTS & DRAINING.
 10. PROVIDING FLOWMETER WITH MINIMUM STRAIGHT PIPING RUN UP 1' BOTH UPSTREAM AND DOWNSTREAM NET INCLUDING SECTION BETWEEN FLOWMETER FLANGES.
 11. MINIMUM CRACKING PRESSURE 50 PSI.

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMP.	CLASS	MATERIAL
02	2501.2	2750 PSIA	380°F	B	SS
03	2501.4	2750 PSIA	380°F	E	SS
08	681.2	715 PSIA	380°F	B	SS
10	681.8	715 PSIA	380°F	E	SS
11	2501.1	2500 PSIA	650°F	A	SS
12	2501.2	2500 PSIA	650°F	B	SS
14	688.4	1180 PSIA	380°F	O	CS
22	151.4	50 PSIA	380°F	B	SS
40	2501.2	2750 PSIA	650°F	B	SS
42	150.4	50 PSIA	380°F	B	SS
48	688.2	1180 PSIA	380°F	B	CS
49	251.4	250 PSIA	280°F	E	SS
56	681.2	1180 PSIA	380°F	O	SS
57	301.4	385 PSIA	380°F	E	SS

REVISIONS

NO.	REV	DESCRIPTION	DATE	CHKD	DATE	APPR	DATE	INSPECTED
21	REV PER CE-62205 IMP. DATE 12-9-83	VOC 12-13	CLL 12-15	REV 12-17	REF	PLC	SGA	
20	REV PER CE-18737 IMP. DATE 11-29-83	VOC 12-20	CLL 12-20	REF 12-20	REF	DRS	SGA	
19	ORIGINAL DRAWING RETIRED	VOC 12-20	CLL 12-20					

QA CONDITION 2
QA CONDITION 1
DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNIT 1
FLOW DIAGRAM OF
SAFETY INJECTION SYSTEM
NI

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Certified as per contract

D-05