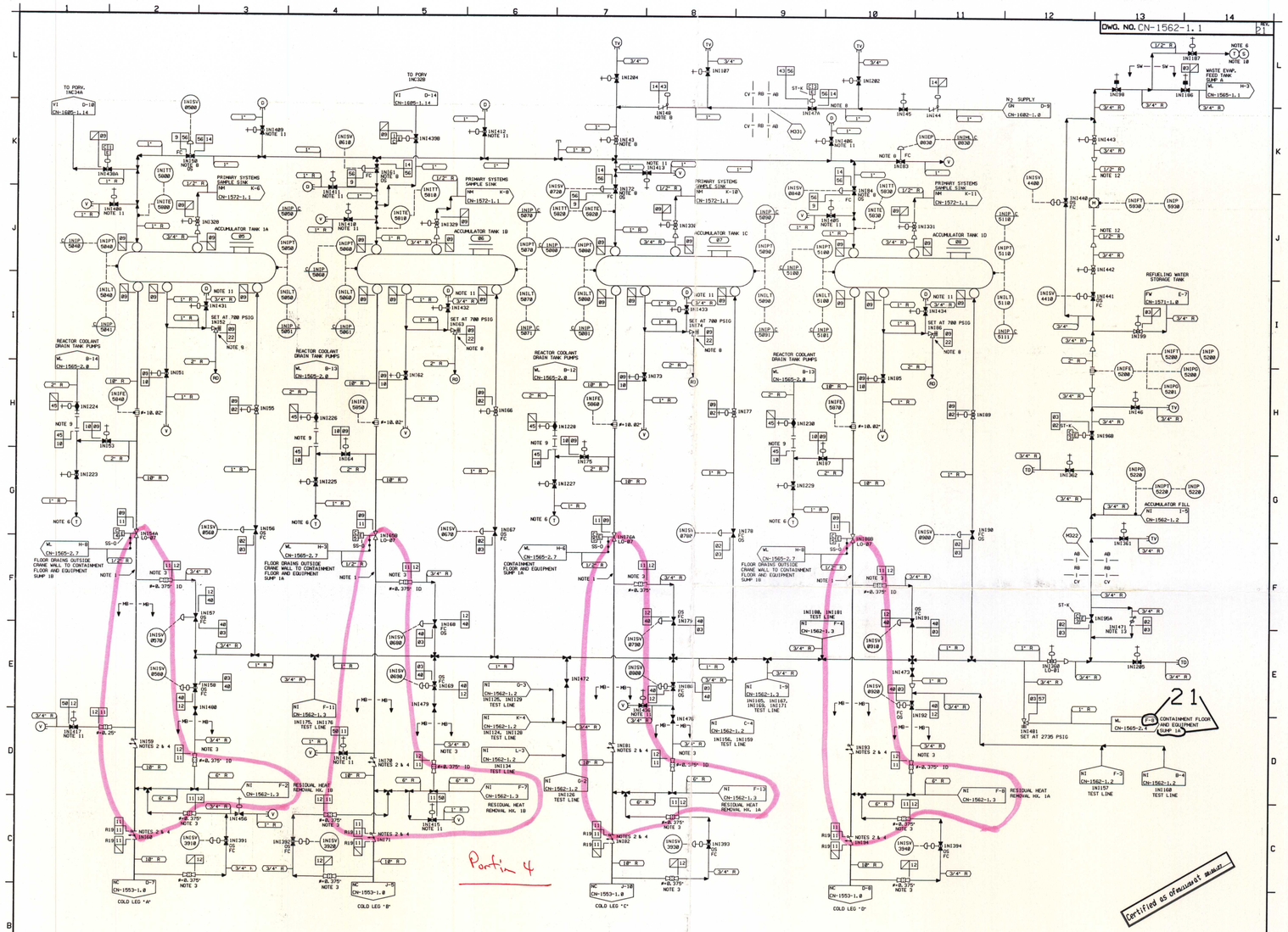

NOTES:

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-1688-4.
4. CLEAR WAY SWING CHECK VALVE. L/D MUST BE LESS THAN OR EQUAL TO 68'.
5.
6. ARRANGE TELL-TALE FOR EASY DRAINAGE INTO HAND CARRIED VESSEL.
7.
8. VALVE PROVIDED WITH SOFT SEAT.
9. BLIND FLANGES NORMALLY INSTALLED. SPOOL PIECE TO BE INSTALLED DURING ACCUMULATOR DRAINING, ONLY AFTER DEPRESSURIZATION.
10. MULTI-PURPOSE CONNECTION TO BE USED AS BOTH TELL-TALE AND SAMPLE POINT.
11. FOR ACCUMULATOR DRAINING.
12. MONITORING FLOWMETER WITH MINIMUM STRAIGHT PIPING RUN OF 5" BOTH UPSTREAM AND DOWNSTREAM NOT INCLUDING SECTION BETWEEN FLOWMETER FLANGES.
13. MINIMUM CRACKING PRESSURE 5# PSI.

DESIGN PARAMETERS

LINE LISTING	PIPE SPEC.	PRESSURE	TEMP.	CLASS	MATERIAL
02	2501.2	2750 PSIA	300°F	B	SS
03	2501.4	2750 PSIA	300°F	E	SS
09	681.2	715 PSIA	300°F	B	SS
10	901.8	715 PSIA	300°F	E	SS
11	2501.2	2500 PSIA	650°F	B	SS
12	2501.2	2500 PSIA	650°F	G	SS
14	600.4	1100 PSIA	300°F	G	CS
22	151.4	30 PSIA	300°F	B	CS
48	2501.2	2750 PSIA	650°F	B	SS
49	150.4	ATM	300°F	G	CS
43	1201.2	1100 PSIA	300°F	B	SS
45	151.4	100 PSIA	300°F	B	SS
50	2501.4	2500 PSIA	650°F	G	SS
56	681.2	1100 PSIA	300°F	B	SS
57	301.4	305 PSIA	300°F	E	SS

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE
21	REV PER CE-62265 IMP. DATE 12-9-83	VDC	12-13	CLI	12-15	ROW	12-17
20	REV PER CE-10737 IMP. DATE 11-29-80	VDC	12-20	CLI	12-20	PEB	12-20
19	ORIGINAL DRAWING RETIRED	VDC	6-26				

REFX PLC SCAN
REFX DWG-DRX

CIVIL ELEC. MECH.
INSPECTED

QA CONDITION 2
QA CONDITION 1

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNIT 1

FLOW DIAGRAM OF
SAFETY INJECTION SYSTEM
NI

DESIGNED BY HOPKINS DATE 7-3-74 INSP. WAIVED DATE
DRAWN BILL PATTON DATE 6-12-74 INSP. JR HALL DATE 7-3-74
CHECKED BY HALLEY DATE 7-2-74 APPR. JT KIKE DATE 7-3-74
SCALE DWG. NO. CN-1562-1.1 REV. 21

ERN: CN000HLY

D.05