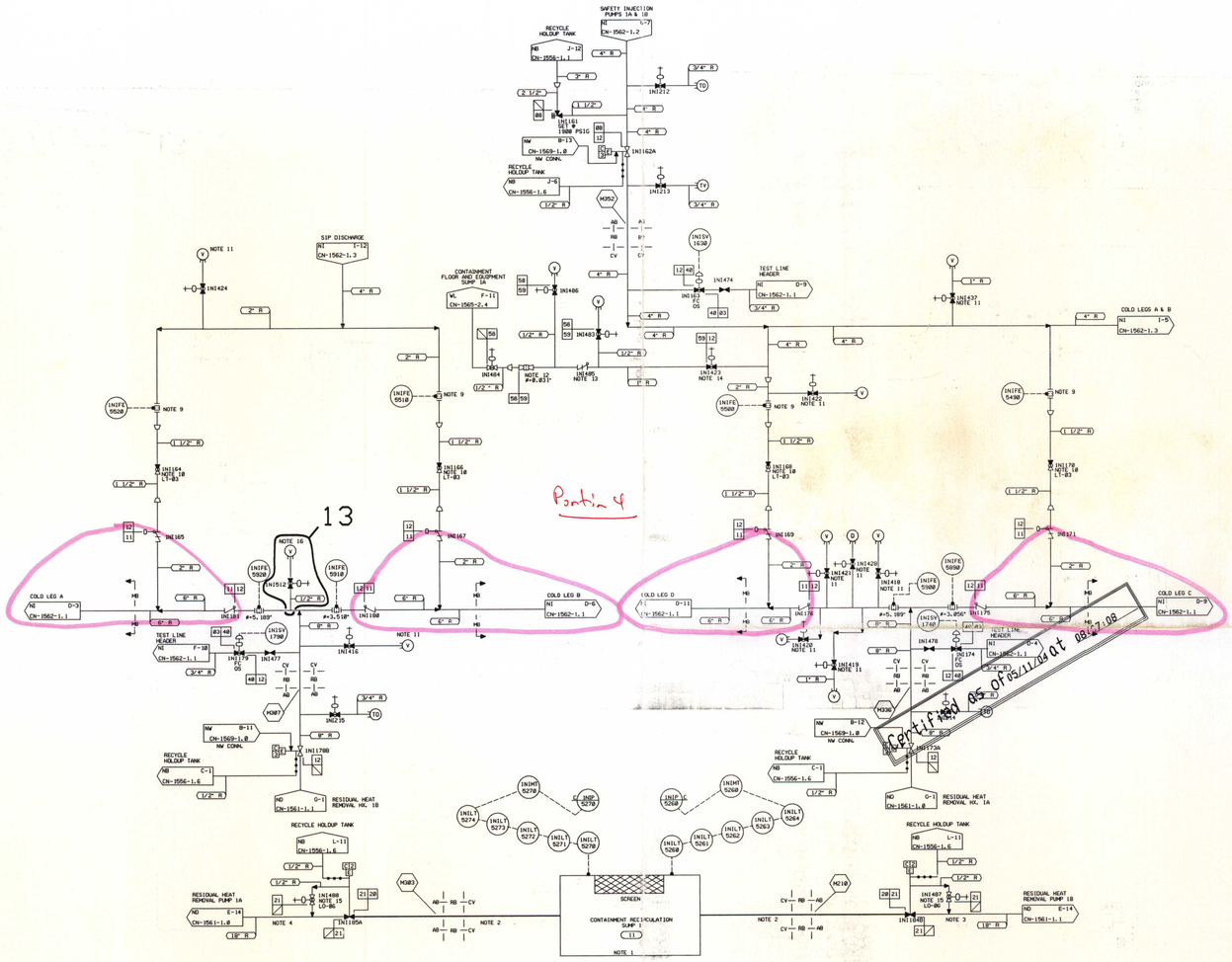
DWG. NO. CN-1562-1.3 REV. 12



NOTES:

1. THE SUMP REPRESENTATION, LOWER COMPARTMENT OF THE CONTAINMENT, IS NOT INTENDED TO ILLUSTRATE A STRUCTURAL DESIGN.
2. CONTROL PIPE FROM SUMP TO JUST OUTSIDE OF THE CONTAINMENT BUILDING WALL.
3. TRAIN B
4. TRAIN A
5. NO INSULATION REQUIRED.
6. FLOW METERING ORIFICE TO VERIFY FLOW DURING PRE-OPERATIONAL TESTING.
10. VALVE INI485 MAY BE CLOSED TO LIMIT PUMP RUNOUT; THEN LOCK WITH POSITION LOCKING DEVICE.
11. CONSTRUCTION VENTS AND DRAINS. PIPE SIZE IS ONE INCH.
12. NI FLOW RESTRICTING ORIFICE CONSISTS OF A MACHINED SOCKET WELD PIPE COUPLING. REFER TO DWG. CN-1491-R1867.
13. VALVE INI485 MAY BE CLOSED TO LIMIT PUMP RUNOUT.
14. VALVE INI485 MAY BE OPENED BY PROCEDURE TO RELIEVE INCREASING NI DISCHARGE HEADER PRESSURE TO PREVENT LIFTING RELIEF VALVES. REFER TO MPT/A/4200/OR.
15. VALVE BONNET PRESSURE EQUALIZATION LINE.
16. TO FACILITATE VENTING OR DRAINING EVOLUTIONS, A VENTING RIG, AS DESCRIBED ON CNDS-1223, 11-00-0026 WILL BE INSTALLED BETWEEN VALVES INI485 AND INI512. THE PIPE CAP TO BE RE-INSTALLED WHEN VENTING RIG IS REMOVED.

13

LINE LISTING	PIPE SPEC.	DESIGN PARAMETERS PRESSURE	TEMPERATURE	CLASS	MATERIAL
03	2501.4	2750 PSIA	300°F	E	SS
08	1501.2	1915 PSIA	200°F	A	SS
11	2501.1	2500 PSIA	650°F	A	SS
12	2501.2	2500 PSIA	650°F	B	SS
20	151.2	150 PSIA	150°F	B	SS
21	151.2	540 PSIA	400°F	B	SS
48	2501.2	2750 PSIA	650°F	B	SS
58	2501.4	2500 PSIA	300°F	E	SS
59	2501.2	2500 PSIA	300°F	B	SS

NO.	REVISIONS	DRN	DATE	CHKD	DATE	APPR	DATE
13	REV PER CE-62135 IMP.DATE 11-29-03	VDC	12-3-03	CLT	12-3-03	RDW	12-4-03
12	REV PER CE-8924 (11-3-97)	VDC	11-13-97	BJL	11-13-97	RDW	11-20-97
-	REV PER CE-9146 (11-4-97)						
11	REV PER CE-7088 (9-21-96)	RFF	10-15-96	EDS	10-16-96	KWA	10-16-96
10	REV. PER CE-6816	DLW	10-10-96	AEC	10-24-96	KLE	10-24-96
9	REV PER CE-6809 (9-15-94)	EDS	9-22-94	AEC	9-22-94	KLE	9-22-94
ORIG.	APPROVED AND RELEASED	—		RHW	—	CLS	7-2-74

QA CONDITION 2
QA CONDITION 1

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNIT 1

FLOW DIAGRAM OF
SAFETY INJECTION SYSTEM
(NI)

DESIGNER MB HOPKINS	DATE 7-3-74	INSP. WAIVED	DATE
DRAWN TOM JONES	DATE 6-26-74	INSP. JB HALL	DATE 7-3-74
CHECKED DW BAILEY	DATE 7-3-74	APPR. TF KOVE	DATE 7-3-74

CIVIL | ELEC. | MECH.
INSPECTED

SCALE DWG. NO. CN-1562-1.3 REV. 12

ERN: CN0000-HM0

D-07