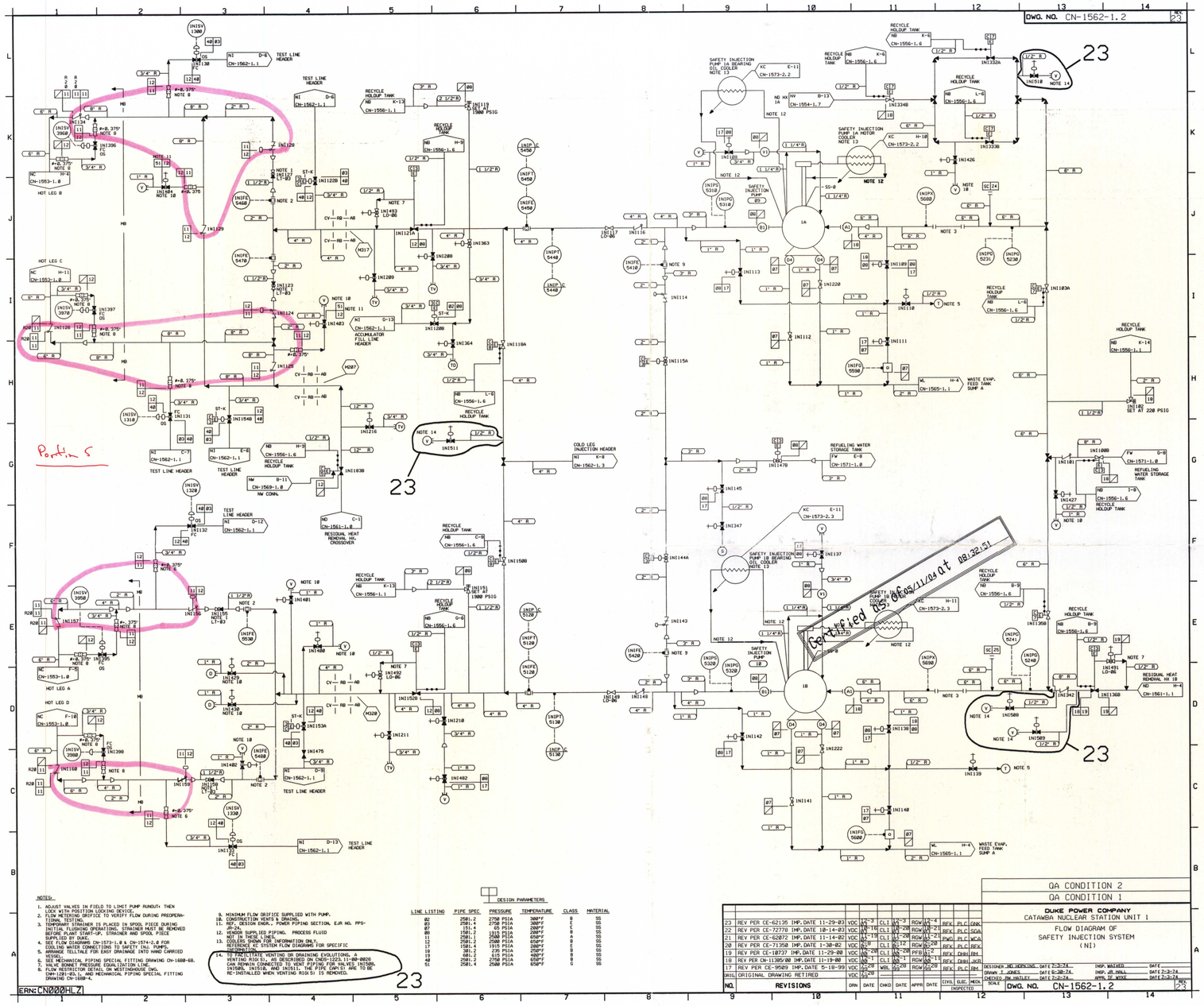
DWG. NO. CN-1562-1.2
REV. 23
23
Portion 5
Certified as of 05/11/04 at 08:32:51
TEST LINE HEADER
RECYCLE HOLDUP TANK
SAFETY INJECTION PUMP 1A BEARING OIL COOLER NOTE 13
SAFETY INJECTION PUMP 1A MOTOR COOLER NOTE 13
SAFETY INJECTION PUMP 1B BEARING OIL COOLER NOTE 13
SAFETY INJECTION PUMP 1B
COLD LEG INJECTION HEADER
REFUELING WATER STORAGE TANK
WASTE EVAP. FEED TANK SUMP A
RESIDUAL HEAT REMOVAL HX CROSSOVER
ACCUMULATOR FILL LINE HEADER
HOT LEG A
HOT LEG B
HOT LEG C
HOT LEG D
NOTES:
1. ADJUST VALVES IN FIELD TO LIMIT PUMP RUNOUT; THEN LOCK WITH POSITION LOCKING DEVICE.
2. FLOW METERING ORIFICE TO VERIFY FLOW DURING PREOPERATIONAL TESTING.
3. TEMPORARY STRAINER IS PLACED IN SPOOL PIECE DURING INITIAL FLUSHING OPERATIONS. STRAINER MUST BE REMOVED BEFORE PLANT START-UP. STRAINER AND SPOOL PIECE SUPPLIED BY DUKE.
4. SEE FLOW DIAGRAMS CN-1573-1.0 & CN-1574-2.0 FOR COOLING WATER CONNECTIONS TO SAFETY INJ. PUMPS.
5. ARRANGE TELTALE FOR EASY DRAINAGE INTO HAND CARRIED VESSEL.
6. SEE MECHANICAL PIPING SPECIAL FITTING DRAWING CN-1688-68.
7. VALVE BONNET PRESSURE EQUALIZATION LINE.
8. FLOW RESTRICTOR DETAIL ON WESTINGHOUSE DWG. CNM-1281-03.1, AND MECHANICAL PIPING SPECIAL FITTING DRAWING CN-1688-4.
9. MINIMUM FLOW ORIFICE SUPPLIED WITH PUMP.
10. CONSTRUCTION VENTS & DRAINS.
11. REF. DESIGN ENGR., POWER PIPING SECTION, EJR NO. PPS-JR-24.
12. VENDOR SUPPLIED PIPING. PROCESS FLUID NOT IN THESE LINES.
13. COOLERS SHOWN FOR INFORMATION ONLY. REFERENCE MECHANICAL SYSTEM FLOW DIAGRAMS FOR SPECIFIC INFORMATION.
14. TO FACILITATE VENTING OR DRAINING EVOLUTIONS, A VENTING RIG(S), AS DESCRIBED ON CNDS-1223.11-00-0026 CAN REMAIN CONNECTED TO VENT PIPING FOR VALVES 1N1500, 1N1509, 1N1510, AND 1N1511. THE PIPE CAP(S) ARE TO BE RE-INSTALLED WHEN VENTING RIG(S) IS REMOVED.
DESIGN PARAMETERS
LINE LISTING | PIPE SPEC | PRESSURE | TEMPERATURE | CLASS | MATERIAL
02 | 2501.2 | 2750 PSIA | 300°F | B | SS
03 | 2501.4 | 2750 PSIA | 300°F | C | SS
07 | 1501.4 | 65 PSIA | 200°F | E | SS
08 | 1501.2 | 1915 PSIA | 200°F | B | SS
11 | 2501.1 | 2500 PSIA | 650°F | A | SS
12 | 2501.2 | 2500 PSIA | 650°F | B | SS
17 | 1501.4 | 1915 PSIA | 200°F | E | SS
18 | 1501.2 | 1915 PSIA | 200°F | B | SS
19 | 601.2 | 615 PSIA | 400°F | B | SS
40 | 2501.2 | 2750 PSIA | 650°F | B | SS
51 | 2501.4 | 2500 PSIA | 650°F | C | SS
ERN: CN000HLZ
QA CONDITION 2
QA CONDITION 1
DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNIT 1
FLOW DIAGRAM OF
SAFETY INJECTION SYSTEM
(NI)
23 REV PER CE-62135 IMP. DATE 11-29-03 VDC 02-3 CLI 02-3 ROW 02-4 RFK PLC GNK
22 REV PER CE-72778 IMP. DATE 10-14-03 VDC 02-16 CLI 02-20 ROW 02-21 RFK PLC SGA
21 REV PER CE-62072 IMP. DATE 11-14-02 VDC 02-19 CLI 02-20 ROW 02-21 PWG PLC WCA
20 REV PER CE-71350 IMP. DATE 1-30-02 VDC 02-8 CLI 02-12 ROW 02-20 RFK PLC RFK
19 REV PER CE-10737 IMP. DATE 11-29-00 VDC 02-20 CLI 02-20 PFB 01-2 RFK DHH RH
18 REV PER CN-11385/00 IMP. DATE 11-19-00 VDC 02-1 CLI 02-1 ROW 02-11 RFK DHH JKR
17 REV PER CE-9509 IMP. DATE 5-18-99 VDC 02-20 WBL 02-20 ROW 02-20 RFK PLC RH
DRSL ORIGINAL DRAWING RETIRED VDC 02-20
NO. REVISIONS DRN DATE CHKD DATE APPR DATE CIVIL ELEC. MECH. INSPECTED
DESIGNER MD HOPKINS DATE 7-3-74 INSP. WAIVED DATE
DRAWN T JONES DATE 6-30-74 INSP. JR HALL DATE 7-3-74
CHECKED RW HATLEY DATE 7-2-74 APPR. TF WOKE DATE 7-3-74
SCALE DWG. NO. CN-1562-1.2 REV. 23

D-06