



- NOTES:
1. REFER TO EQUIPMENT LISTING CN-1561 FOR EQUIPMENT DATA.
 2. TEMPORARY CONTROLS: ALL PLUGS IN THE SHOCK PIPES DURING INITIAL FLUSHING OPERATIONS. STAMPER MUST BE REMOVED BEFORE PLANT START UP. CORRECT LINE IS CONNECTED TO PRESSURE GAUGE DURING INITIAL FLUSHING.
 3. SAMPLE LINE SHOULD BRANCH OFF FROM PUMP DISCHARGE TO VENT STAMPER TO EXTEND AT LEAST ONE FOOT ABOVE THE LEVEL OF TOP OF EXCHANGER OR PIPES TO BE VENT.
 4. LOW POINT DRAIN.
 5. LOCATE VENT CLOSE TO VENTILATION EXHAUST GRILLE.
 6. HIGH POINT OF PIPING AT TOP OF PIPE.
 7. POSITION E PUMP ACCESS TO TRANSPORT WATER BACK TO HOSE FOR LINE MAINTENANCE. THIS LINE MUST NOT BE USED AFTER LOCK.

11. FLOW RESTRICTION DETAIL REQUIRED ON DRAWING CN-1561.1

DESIGN PARAMETERS

| NO. | PIPE SPEC. | PRESSURE | TEMPERATURE | CLASS | MATERIAL |
|-----|------------|-----------|-------------|-------|----------|
| 01 | 2501.2 | 2500 PSIA | 600°F | A | SS |
| 02 | 601.4 | 615 PSIA | 400°F | B | SS |
| 03 | 151.4 | 615 PSIA | 400°F | E | SS |
| 04 | 601.2 | 540 PSIA | 400°F | B | SS |
| 05 | 601.4 | 540 PSIA | 400°F | E | SS |
| 07 | 2501.2 | 2500 PSIA | 600°F | A | SS |

DESIGN FLOW

| NO. | FLOW |
|-----|--------|
| 01 | 85 GPM |

8212130335

AUTHORIZED PRESSURE RECORDING - REV. 6 (2-28-47)
 CLEARED FOR PRESSURE MEASUREMENT - REV. 2 (2-28-47)

SYSTEM CHANGE ORDER NUMBER CN-1561-1.0-0003
 ISSUED FOR START-UP. REV. 0
 DATE 11/15/53 BY W.C. BASS

Q.A. CONDITION 2

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNIT 1

FLOW DIAGRAM OF
RESIDUAL HEAT REMOVAL
SYSTEM (HD)

| REVISION NO. | DATE | BY | REASON |
|--------------|----------|-----------|---------------------|
| 1 | 11-15-53 | W.C. BASS | ISSUED FOR START-UP |

DWG. NO. CN-1561-1.0

PRO APERTURE CARD

8.5"

11"

17"

Rids

8212130335

