



- NOTES:**
1. PIPING SCHEDULE (S) MUST BE CHECKED 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-2562-1.1.
 4. CLEAR ANY SWING CHECK VALVE (L) MUST BE LESS THAN UP EQUAL TO 40°.
 5. ANNOUNCE TELLTALE FOR EASY DRAINAGE INTO HAND CARRIED VESSEL.
 6. VALVE PROVIDED WITH SOFT SEAT.
 7. IN LIO (L) CHECK 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 SOFT SEAT.
 9. PROVIDE FLOWMETER WITH A MINIMUM OF 10 INCHES OF PIPING UP AND DOWNSTREAM, INCLUDING SECTION BETWEEN FLOOR/CEILING FLANGES.
 10. REV. DESIGN ENG. POWER PIPING SECTION. SUP. NO. 999-25-24.

DESIGN PARAMETERS

| LINE LISTING | PIPE SIZE | PRESSURE | TEMPERATURE | CLASS | MATERIAL |
|--------------|-----------|-----------|-------------|-------|----------|
| 82 | 2001.2 | 3750 PSIA | 300°F | 8 | SS |
| 83 | 2001.4 | 2750 PSIA | 300°F | 6 | SS |
| 16 | 801.2 | 715 PSIA | 300°F | 6 | SS |
| 18 | 801.0 | 715 PSIA | 300°F | 6 | SS |
| 19 | 2001.1 | 2500 PSIA | 350°F | 8 | SS |
| 20 | 801.4 | 1100 PSIA | 300°F | 6 | SS |
| 21 | 801.4 | 1100 PSIA | 300°F | 6 | SS |
| 22 | 801.2 | 715 PSIA | 300°F | 6 | SS |
| 23 | 154 | ATM | 300°F | 6 | SS |
| 40 | 1100 PSIA | 300°F | 8 | SS | |
| 41 | 1100 PSIA | 300°F | 8 | SS | |
| 42 | 1100 PSIA | 300°F | 8 | SS | |
| 43 | 1100 PSIA | 300°F | 8 | SS | |
| 44 | 1100 PSIA | 300°F | 8 | SS | |
| 45 | 1100 PSIA | 300°F | 8 | SS | |
| 46 | 1100 PSIA | 300°F | 8 | SS | |
| 47 | 1100 PSIA | 300°F | 8 | SS | |
| 48 | 1100 PSIA | 300°F | 8 | SS | |
| 49 | 1100 PSIA | 300°F | 8 | SS | |
| 50 | 1100 PSIA | 300°F | 8 | SS | |
| 51 | 1100 PSIA | 300°F | 8 | SS | |
| 52 | 1100 PSIA | 300°F | 8 | SS | |
| 53 | 1100 PSIA | 300°F | 8 | SS | |
| 54 | 1100 PSIA | 300°F | 8 | SS | |
| 55 | 1100 PSIA | 300°F | 8 | SS | |
| 56 | 1100 PSIA | 300°F | 8 | SS | |
| 57 | 1100 PSIA | 300°F | 8 | SS | |
| 58 | 1100 PSIA | 300°F | 8 | SS | |
| 59 | 1100 PSIA | 300°F | 8 | SS | |
| 60 | 1100 PSIA | 300°F | 8 | SS | |
| 61 | 1100 PSIA | 300°F | 8 | SS | |
| 62 | 1100 PSIA | 300°F | 8 | SS | |
| 63 | 1100 PSIA | 300°F | 8 | SS | |
| 64 | 1100 PSIA | 300°F | 8 | SS | |
| 65 | 1100 PSIA | 300°F | 8 | SS | |
| 66 | 1100 PSIA | 300°F | 8 | SS | |
| 67 | 1100 PSIA | 300°F | 8 | SS | |
| 68 | 1100 PSIA | 300°F | 8 | SS | |
| 69 | 1100 PSIA | 300°F | 8 | SS | |
| 70 | 1100 PSIA | 300°F | 8 | SS | |
| 71 | 1100 PSIA | 300°F | 8 | SS | |
| 72 | 1100 PSIA | 300°F | 8 | SS | |
| 73 | 1100 PSIA | 300°F | 8 | SS | |
| 74 | 1100 PSIA | 300°F | 8 | SS | |
| 75 | 1100 PSIA | 300°F | 8 | SS | |
| 76 | 1100 PSIA | 300°F | 8 | SS | |
| 77 | 1100 PSIA | 300°F | 8 | SS | |
| 78 | 1100 PSIA | 300°F | 8 | SS | |
| 79 | 1100 PSIA | 300°F | 8 | SS | |
| 80 | 1100 PSIA | 300°F | 8 | SS | |
| 81 | 1100 PSIA | 300°F | 8 | SS | |
| 82 | 1100 PSIA | 300°F | 8 | SS | |
| 83 | 1100 PSIA | 300°F | 8 | SS | |
| 84 | 1100 PSIA | 300°F | 8 | SS | |
| 85 | 1100 PSIA | 300°F | 8 | SS | |
| 86 | 1100 PSIA | 300°F | 8 | SS | |
| 87 | 1100 PSIA | 300°F | 8 | SS | |
| 88 | 1100 PSIA | 300°F | 8 | SS | |
| 89 | 1100 PSIA | 300°F | 8 | SS | |
| 90 | 1100 PSIA | 300°F | 8 | SS | |
| 91 | 1100 PSIA | 300°F | 8 | SS | |
| 92 | 1100 PSIA | 300°F | 8 | SS | |
| 93 | 1100 PSIA | 300°F | 8 | SS | |
| 94 | 1100 PSIA | 300°F | 8 | SS | |
| 95 | 1100 PSIA | 300°F | 8 | SS | |
| 96 | 1100 PSIA | 300°F | 8 | SS | |
| 97 | 1100 PSIA | 300°F | 8 | SS | |
| 98 | 1100 PSIA | 300°F | 8 | SS | |
| 99 | 1100 PSIA | 300°F | 8 | SS | |
| 100 | 1100 PSIA | 300°F | 8 | SS | |

REVISIONS

| NO. | REV | PER | DATE | BY | CHK | APP | DATE | REASON |
|-----|-------------|-----|----------|-----|-----|-----|----------|-------------|
| 15 | REV PER NSM | NSM | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER NSM |
| 14 | REV PER VNM | VNM | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER VNM |
| 13 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 12 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 11 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 10 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 9 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 8 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 7 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 6 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 5 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 4 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 3 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 2 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |
| 1 | REV PER CE | CE | 08/14/68 | WJS | JKL | JKL | 08/14/68 | REV PER CE |

G. A. CONDITION 2
G. A. CONDITION 1

DUKE POWER COMPANY
 CATAWBA NUCLEAR STATION UNIT 2

FLOW DIAGRAM OF
 SAFETY INJECTION SYSTEM

DATE: 08/14/68
 DRAWN BY: WJS
 CHECKED BY: JKL
 SCALE: AS SHOWN
 DWG. NO. CN-2562-1.1

PDR RIDS

9603180029

