



| # | QPM | PSIG | °F     | ΔP | REMARKS                                              |
|---|-----|------|--------|----|------------------------------------------------------|
| 1 | 500 | 48   | 77     |    |                                                      |
| 2 | 294 | 7    | 77     |    |                                                      |
| 3 | 180 | 35   | 5-ΔT12 |    | NORMAL 450,000 GPM                                   |
| 3 | 300 |      |        |    | MAX. ALLOWED FLOW THROUGH HEAT EXCHANGER 450,000 GPM |

| # | PSIG   | °F | PSIG | °F | DURA. | HY. DRO. | BY | CHKD. | REMARKS    |
|---|--------|----|------|----|-------|----------|----|-------|------------|
| 1 | NORMAL |    |      |    |       |          |    |       |            |
| 2 |        |    |      |    |       |          |    |       | SEE NOTE 2 |
| 3 |        |    |      |    |       |          |    |       | SEE NOTE 2 |

NOTE:  
 1. MECHANICAL INTERLOCK INSURES BOTH VALVES ARE IN THE SAME POSITION TO PREVENT CROSS CONNECTION OF CW AND TC.  
 2. XPP224 A/B MAY BE OPERATED SOLELY ON MINIFLOW FOR ANY PERIOD OF TIME AS LONG AS IT14357 A/B REMAINS <130°F.

**ESSENTIAL**

FSAR FIGURE 10.4-6  
 SOUTH CAROLINA ELECTRIC & GAS COMPANY  
 VIRGIL C. SUMNER NUCLEAR STATION  
 PIPING SYSTEM FLOW DIAGRAM  
 CIRCULATING WATER COOLING

DRAWING LEGIBILITY CLASS 1  
 SCALE: CAD ENHANCED

| NO. | DATE     | BY  | REVISION                    | CHKD. BY | APPROVAL |
|-----|----------|-----|-----------------------------|----------|----------|
| 4   | 7/11/08  | JMR | REVISED PER ECR-72367       | DC       | AL       |
| 3   | 3/17/08  | RHM | REVISED PER ECR-50617L      | MGR      | TW       |
| 2   | 11/20/07 | JTS | REVISION PER ECR-50617M & O | MGR      | TW       |
| 1   | 3/19/08  | JMR | REVISED PER ECR-50617J      | MGR      | TW       |
| 0   | 8/1/06   | JMR | ISSUED PER ECR-50617        | MGR      | TW       |

| DESIGN ENGINEERING | MADE | CHECKED | LE APPROVAL |
|--------------------|------|---------|-------------|
| JMR                | MGR  | TW      |             |

D-302-204  
 DRAWING NUMBER  
 SHEET NUMBER REV 4