



- NOTES:
- STANDBY LIQUID CONTROL (LCC) DISCHARGED INTO CORE FLOODER LOOP IS NOT USED AS SYSTEM FLOOD SOURCE FOR THAT LOOP.
  - EMPTY DATA BLANKS ARE TO BE PROVIDED BY THE PUMP DESIGNER. INDICATES MAXIMUM AND MINIMUM VALUES OF THAT PARAMETER.
  - MAXIMUM ELEVATION DIFFERENCE BETWEEN THE SUPPLY SUPPRESSOR POOL LEVEL AND THE CORE COOLING LOOP VESSEL MAXIMUM IS SET ABOVE.
  - IN MODE "C" THE NPSH AVAILABLE AT 1 METER ABOVE THE PUMP FLOOR SHALL EXCEED OR EXCEED 3.0 METERS WITH SUCTION STRAINER ONE PLACE.
  - THE PRESSURE DIFFERENCE BETWEEN POINTS 8 AND 10 SHALL BE ADJUSTED DURING OPERATIONAL TESTS TO MEET:
    - THE FLOW SPECIFIED FOR LOOP "C" IS EQUALLED OR EXCEEDED AT THE REACTOR PRESSURE VESSEL.
    - THE NPSH AVAILABLE TO THE LOOP PUMPS IN MODE "C" IS NOT LESS THAN SPECIFIED IN NOTE 4.
    - THE PUMP VELOCITY-ALLOWABLE RUNOUT FLOW IS NOT EXCEEDED.
    - THE RUNOUT FLOW DOES NOT EXCEED VELOCITY TESTED FLOW.
  - BYPASS FLOW SPECIFIED IN MODE "C" IS APPROXIMATE IF THE PUMP VELOCITY REQUIRES Bypass FLOW GREATER THAN THAT SHOWN. THE PUMP REQUIREMENTS FOR MODE "A" MUST BE RE-OBTAINED.
  - THIS TABLE IS FOR REFERENCE ONLY. SEE REFERENCE DOC 1 FOR REQUIRED VALUES.
  - TABLE 1 INDICATES VALVE POSITION DURING VARIOUS OPERATING MODES.
  - FOR MODE 5, POINTS 1-12, 77/10/10 OCCURS FOR A SHORT DURATION TIME AFTER LOCK.
  - MODE 5 REFLECTS SYSTEM TEST CONDITIONS FOR THE HATED CONDITION AND HIGH PRESSURE LOOP FLOW CONDITION. THE RUNOUT FLOW CONDITION SHOULD BE USED FOR DESIGN OF THE FLOW TEST.
  - VALVE E21-FO03 & C AUTOMATICALLY OPENS ON REACTOR WATER LOW LEVEL AND CLOSURE ON HIGH LEVEL.
  - INTERCONNECTIONS BETWEEN THE HIGH PRESSURE CORE FLOODER SYSTEM AND THE ROU SYSTEM ARE FROM LOOP "B" TO ROU "A", ETC.
  - THIS CONNECTION IS ON LOOP "B" ONLY.
  - NPSH AVAILABLE FROM THE CONDENSATE TANK SOURCE MUST EQUAL OR EXCEED NPSH REQUIRED IN NOTE 4.
  - POSITIONS E24, E25, AND E26 APPLY WHEN SUCTION IS TAKEN FROM CST.
  - PREFERRED INITIAL SUCTION SOURCE IS CONDENSATE STORAGE TANK.
  - 1.25 METERS SUCTION LINE LOSS FROM SUPPRESSOR POOL TO PUMP SECTION.
  - REQUIRED TOTAL DYNAMIC HEAD.

- SUPPLEMENTAL DOCUMENTS UNDER THE FOLLOWING IDENTITIES ARE TO BE USED IN CONNECTION WITH THIS DRAWING:
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|---------------------------------------|------------------|
| 1. HIGH PRESSURE CORE FLOODER SYS PFD | MPL NO. E22-1020 |
| 2. RESIDUAL HEAT REMOVAL SYS PFD      | E11-1020         |
| 3. REACTOR PRESSURE VESSEL SYSTEM     | 011-401          |
| 4. STANDBY LIQUID CONTROL SYS PFD     | 041-1020         |

- SUPPORTING DOCUMENTS:
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| 1. Piping & Instrument Diagram Symbols | MPL NO. A-0-3030 |
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FIG 6.3-1

SI APERTURE CARD

GENERAL ELECTRIC	
DATE: 10-9-91	PROJECT: 107E5009
DESIGNER: [Signature]	CHECKED: [Signature]
SCALE: 1:1	NO. OF SHEETS: 1
HIGH PRESSURE CORE FLOODER SYSTEM	

PDR RIDS

9202260326

