

- NOTES:
- HIGH PORG VENT SHOULD BE PROVIDED FOR PURGE SUBSYSTEM, IF INTERMEDIATE PORG POINTS EXIST.
 - CONTAINMENT ISOLATION VALVES SHALL BE LOCATED AS CLOSE AS POSSIBLE TO THE DRYWELL PENETRATION AND IN A HORIZONTAL POSITION.
 - ALL COMPONENT AND INSTRUMENTS SHALL BE PROVIDED BY B31 UNLESS OTHERWISE SPECIFIED.
 - SEPARATOR OR FILTER INTERNALS FOR RITAL SYSTEM FLOWING TO BE INSTALLED TEMPORARILY WHEN NEEDED. HOUSING IS WELDED PERMANENTLY IN LINE.
 - SPEED ELEMENTS ACCURACY SHALL CONFORM TO REFERENCE DOCUMENT'S REQUIREMENTS.
 - DO03 MAY BE EXCLUDED IF THE JOG02 FLOW REGULATOR IS CAPABLE OF THE COMPLETE DIFFERENTIAL PRESSURE RANGE SUPPLIED WITH EACH CO01 PUMP.
 - TE 303 LOCATED AS CLOSE AS POSSIBLE TO MOTOR CASING. TE 303 INSTALLED ONLY IN SHORTEST AND LONGEST PURGE LINES ONLY (TWO TOTAL).
 - REMOVABLE SPOOL PIECE FOR DRAW WATER SAMPLING.
 - LOCATE VALVES AS CLOSE TO MOTOR CASING AS POSSIBLE BUT BELOW RPV BOTTOM HEAD INSULATION.
 - RCW SYSTEM SHOWN IN PHANTOM BUT THIS RCW PIPE CONFIGURATION AND COMPONENTS ARE REQUIRED BY RRS (B31) SYSTEM.
 - THE RPV SPEED AND VIBRATION ANALOG SIGNALS SHALL BE INPUT TO THE PLANT PROCESS COMPUTER AND PERMANENT CONNECTIONS FOR TEMPORARY SPECIAL RPV MOTOR ANALYTICAL AND RECORDING EQUIPMENT.
 - VENT AND DRAIN VALVES SHOULD BE CENTRALLY LOCATED FOR EACH PUMP AND HX.
 - LOCAL PANEL CONTAINING 20 VIBRATION AND 20 SPEED TRANSMITTERS. ALL SUPPLIED BY PUMP SUPPLIER.
 - ALL RRS PIPING IS SEISMIC CLASS AS EXCEPT RPV HX TUBE SIDE DRAIN PIPES.

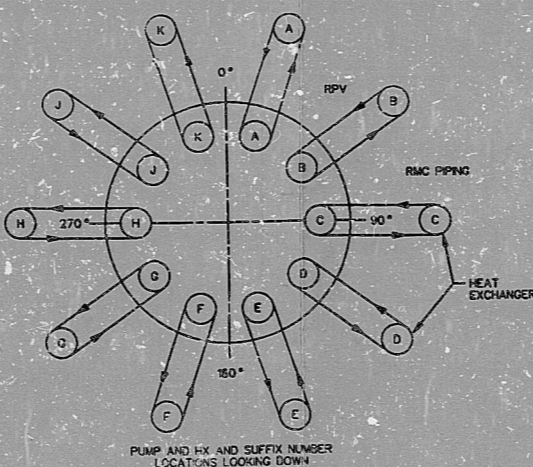
TABLE 2: PIPING SPECIFICATIONS

PIPE NO.	SCHEDULE	MATERIAL	FLUID
001A-K	80	SS	W
002A-K	80	SS	W
003A-B	80	SS	W
004	80	SS	W
005A-H	80	SS	W
006A-K	80	SS	W
007A-K	80	SS	W
008A-K	80	SS	W
009A-K	80	SS	W
010A-K	80	SS	W
011	80	CS	W
500A-K	80	SS	W
501A-K	80	SS	W
502A-K	80	SS	W
503A-K	80	SS	W
504A-K	80	CS	W
505A-K	80	CS	W
506A-K	80	CS	W

- REFERENCE DOCUMENTS UNDER THE FOLLOWING IDENTITIES ARE TO BE USED IN CONNECTION WITH THIS DRAWING.
- | IDENTITY | MPL NO. |
|--|----------|
| 1. CONTROL ROD DRIVE SYS P&ID | C12-1010 |
| 2. REACTOR BUILDING COOLING WATER SYS P&ID | 121-010 |
| 3. RECIRC FLOW CONTROL SYS I&D | 081-1040 |
| 4. MAKE-UP WATER (PURGED) SYS P&ID | PH-1010 |
| 5. PIPING AND INSTRUMENT SYMBOLS DIAGRAM | A10-3030 |

TABLE 1: MCI ANNUNCIATOR - ALARMS

FUNCTION	PRIMARY SENSOR	SET POINT
RMKX PRIMARY SIDE INLET WATER TEMP HIGH	TE301	60°C
RMKX PRIMARY SIDE OUTLET WATER TEMP HIGH	TE302	45°C
RPV VIBRATION HIGH	VBE	7 MM/SEC
RP VIBRATION HIGH	VBE	MM/SEC
RP SEAL PURGE FLOW/PRESSURE HIGH/LOW	FIS001	13-17 GRAMS/SEC
RMKX SEC COOL WATER OUTLET FLOW HIGH/LOW	SEE P21	SEE P21
RMKX SEC COOL WATER INLET/OUTLET HIGH TEMP	SEE P21	SEE P21



SI APERTURE CARD

F16.5.4-4

EQUIPMENT CLASS CODE

SIGNATURES	DATE	DESIGN	GENERAL ELECTRIC
DESIGNED BY: WILHELM P. ...	20 5 81	21 2 81	NEBO DEPT. LOC. SAN JOSE
DRAWN BY: GA BAYLES ...	18 2 81	18 2 81	DOC TYPE: P&ID
CHECKED BY: RD ROBERTSHAW ...	18 2 81	18 2 81	REACTOR RECIRCULATION SYSTEM
APPLIED PRACTICES		MPL NO. 831-1010	
UNLESS OTHERWISE SPECIFIED		MPL NO. 831-1010	
1. PLACE DECIMALS	2. PLACE DECIMALS	3. PLACE DECIMALS	4. PLACE DECIMALS
5. PLACE DECIMALS	6. PLACE DECIMALS	7. PLACE DECIMALS	8. PLACE DECIMALS
9. PLACE DECIMALS	10. PLACE DECIMALS	11. PLACE DECIMALS	12. PLACE DECIMALS

PDR RIDS

9202270153

