

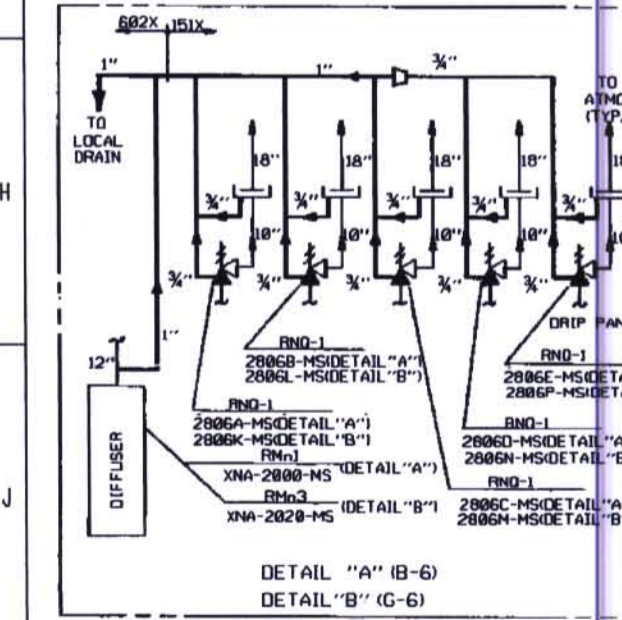
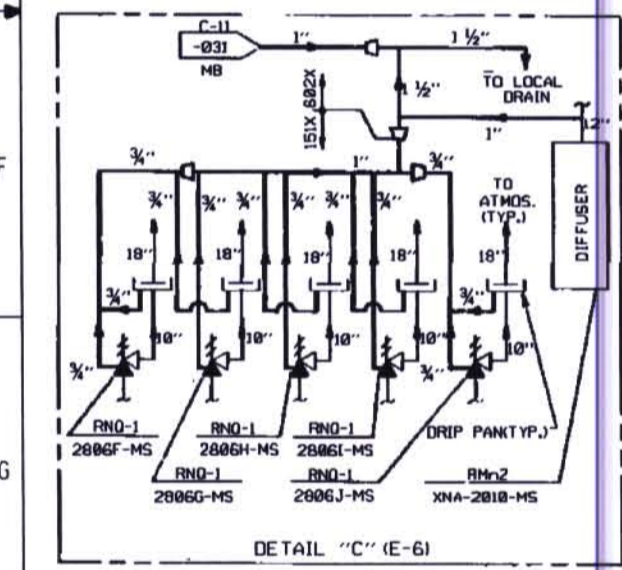
SYSTEM DATA				
FL	PSIG	F	REMARKS	
1	4.277	93	545	100% LOAD
1	Minimum	1092	557	NO LOAD
14	0.786	95L	548	POWER TO BE OFF WHEN IN OPERATION
15	0.825	1092	557	SEE NOTE-A
16	0.93	1176	—	SEE NOTE-A
17	0.93	1190	—	SEE NOTE-A
18	0.93	1205	—	SEE NOTE-A
19	0.93	1220	—	SEE NOTE-A
20	0.93	1235	—	SEE NOTE-A

NOTE:
A. FLOW LISTED IS THE ASME RATED CAPACITY (90% ACTUAL AT 3% ACCUMULATION IN LB. PER HOUR WHEN THE SAFETY VALVE IS FULL OPEN AT THE HIGHEST SET SAFETY VALVE SET PRESSURE 1225 PSIG). THE PRESSURES LISTED ARE THE INDIVIDUAL SAFETY VALVES SET PRESSURE.

SAFETY CLASS VERIFICATION
ORIGINATED BY: EJA 2-12-79
REVIEWED BY: RHK 2-12-74

TO BE USED NEXT

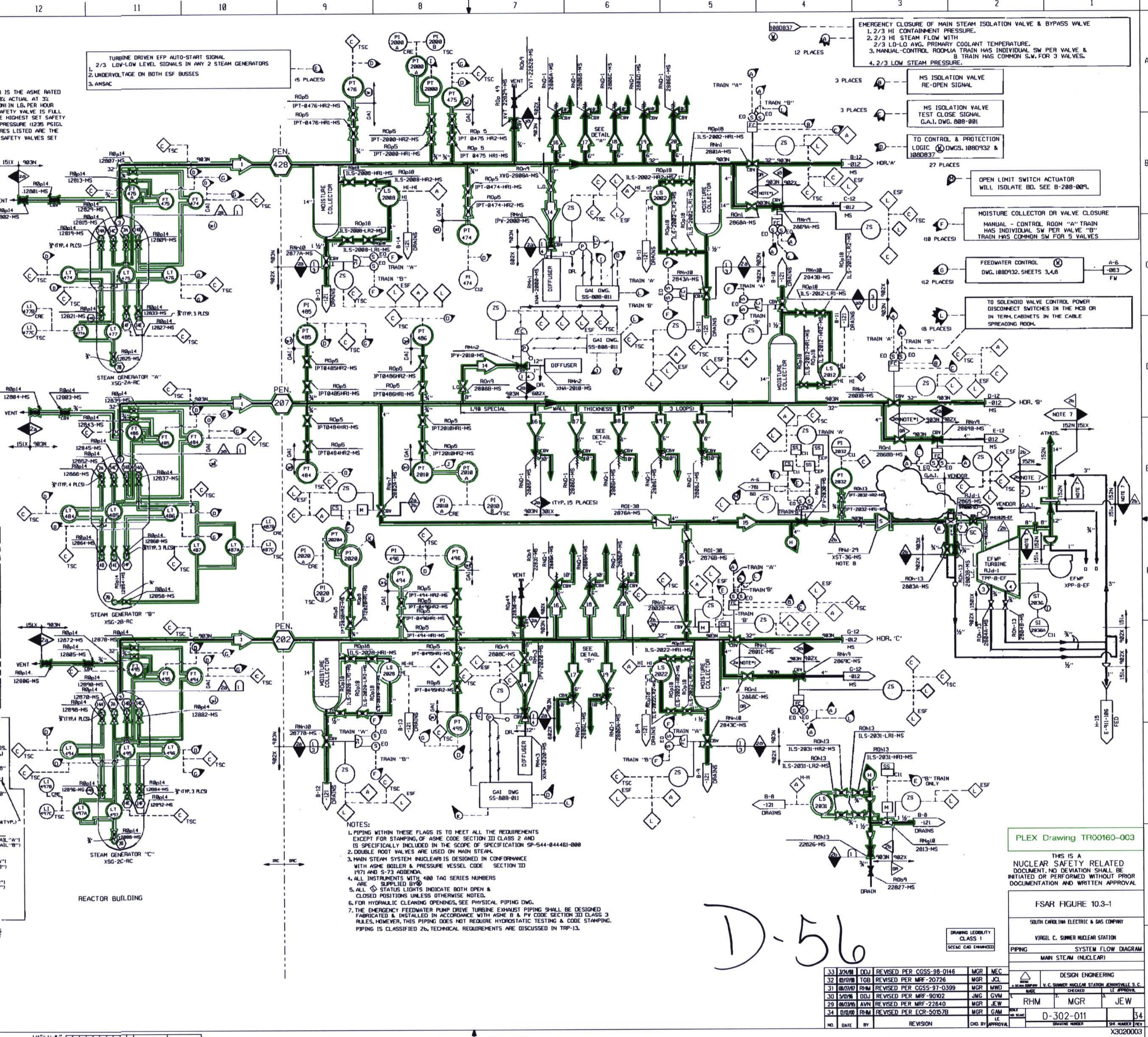
NOTE:
B. TEMPORARY STRAINER FOR SYSTEM CLEAN UP TO BE REMOVED AFTER FINAL FLUSH.



ALL PORTIONS OF THE MAIN STEAM PIPING WITH A WALL THICKNESS GREATER THAN 3/8" TO BE HYDROSTATICALLY TESTED WITH WATER AT A MINIMUM TEMPERATURE OF 120°F. THE REMAINING PORTIONS OF THE SYSTEM MAY BE TESTED WITH WATER AT A TEMPERATURE OF 60°F.

NO.	DATE	BY	REVISION
1	11/85	AMR	145 365 C1X
2	0	AMR	1264 680 C1X 1780 HNG
3	0	AMR	1 216 C1X 1715 HNG
4	0	AMR	1264 680 C1X 1480 HNG

DESIGN DATA



- NOTES:
1. PIPING WITHIN THESE FLAGS IS TO MEET ALL THE REQUIREMENTS EXCEPT FOR STAMPING OF ASME CODE SECTION III CLASS 2 AND IS SPECIFICALLY INCLUDED IN THE SCOPE OF SPECIFICATION 28-544-844461-000
 2. DOUBLE ROOT VALVES ARE USED ON MAIN STEAM.
 3. MAIN STEAM SYSTEM NUCLEAR IS DESIGNED IN CONFORMANCE WITH ASME BOILER & PRESSURE VESSEL CODE SECTION III 1971 AND 5-73 ADDENDA.
 4. ALL INSTRUMENTS WITH 400 TAG SERIES NUMBERS ARE SUPPLIED BY GW.
 5. ALL STATUS LIGHTS INDICATE BOTH OPEN & CLOSED POSITIONS UNLESS OTHERWISE NOTED.
 6. FOR HYDRAULIC CLEANING OPENINGS, SEE PHYSICAL PIPING DWG.
 7. THE EMERGENCY FEEDWATER PUMP DRIVE TURBINE EXHAUST PIPING SHALL BE DESIGNED FABRICATED & INSTALLED IN ACCORDANCE WITH ASME B 31 CODE SECTION III CLASS 2 RULES, HOWEVER, THIS PIPING DOES NOT REQUIRE HYDROSTATIC TESTING & CODE STAMPING. PIPING IS CLASSIFIED 2b, TECHNICAL REQUIREMENTS ARE DISCUSSED IN TRP-13.

EMERGENCY CLOSURE OF MAIN STEAM ISOLATION VALVE & BYPASS VALVE
1. 2/3 HI CONTAINMENT PRESSURE.
2. 2/3 HI STEAM FLOW WITH
2/3 L/D AVG. PRIMARY COOLANT TEMPERATURE.
3. MANUAL CONTROL ROOM/A TRAIN HAS INDIVIDUAL SW PER VALVE & A TRAIN HAS COMMON SW FOR 3 VALVES.
4. 2/3 LOW STEAM PRESSURE.

MS ISOLATION VALVE RE-OPEN SIGNAL
3 PLACES

MS ISOLATION VALVE TEST CLOSE SIGNAL G.A.I. DWG. 888-081
3 PLACES

TO CONTROL & PROTECTION LOGIC (M) DWGS. 1880932 & 1880937
27 PLACES

OPEN LIMIT SWITCH ACTUATOR WILL ISOLATE BD. SEE B-288-009L
10 PLACES

MOISTURE COLLECTOR DR VALVE CLOSURE MANUAL - CONTROL ROOM "A" TRAIN HAS INDIVIDUAL SW PER VALVE "B" TRAIN HAS COMMON SW FOR 5 VALVES
10 PLACES

FEEDWATER CONTROL DWG. 1880932, SHEETS 3,4,6
12 PLACES

TO SOLENOID VALVE CONTROL POWER DISCONNECT SWITCHES IN THE MCB OR IN TERM. CABINETS IN THE CABLE SPREADING ROOM.
18 PLACES

PLEX Drawing TR00160-003

THIS IS A NUCLEAR SAFETY RELATED DOCUMENT. NO DEVIATION SHALL BE INITIATED OR PERFORMED WITHOUT PRIOR DOCUMENTATION AND WRITTEN APPROVAL.

FSAR FIGURE 10.3-1
SOUTH CAROLINA ELECTRIC & GAS COMPANY
VIRGIL C. SUMNER NUCLEAR STATION
PPING SYSTEM FLOW DIAGRAM
MAIN STEAM (NUCLEAR)

NO.	DATE	BY	REVISION	CHK BY	APPROVAL
33	11/85	AMR	REVISD PER CGSS-38-0146	MGR	MEC
32	07/87	TGB	REVISD PER MRF-20726	MGR	JCL
31	07/87	RAM	REVISD PER CGSS-97-0399	MGR	MMD
30	5/86	RAM	REVISD PER MRF-98022	LMS	GMW
29	08/85	AVN	REVISD PER MRF-27640	MGR	JEW
34	07/86	RAM	REVISD PER ECR-50578	MGR	GMW

D-302-011
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