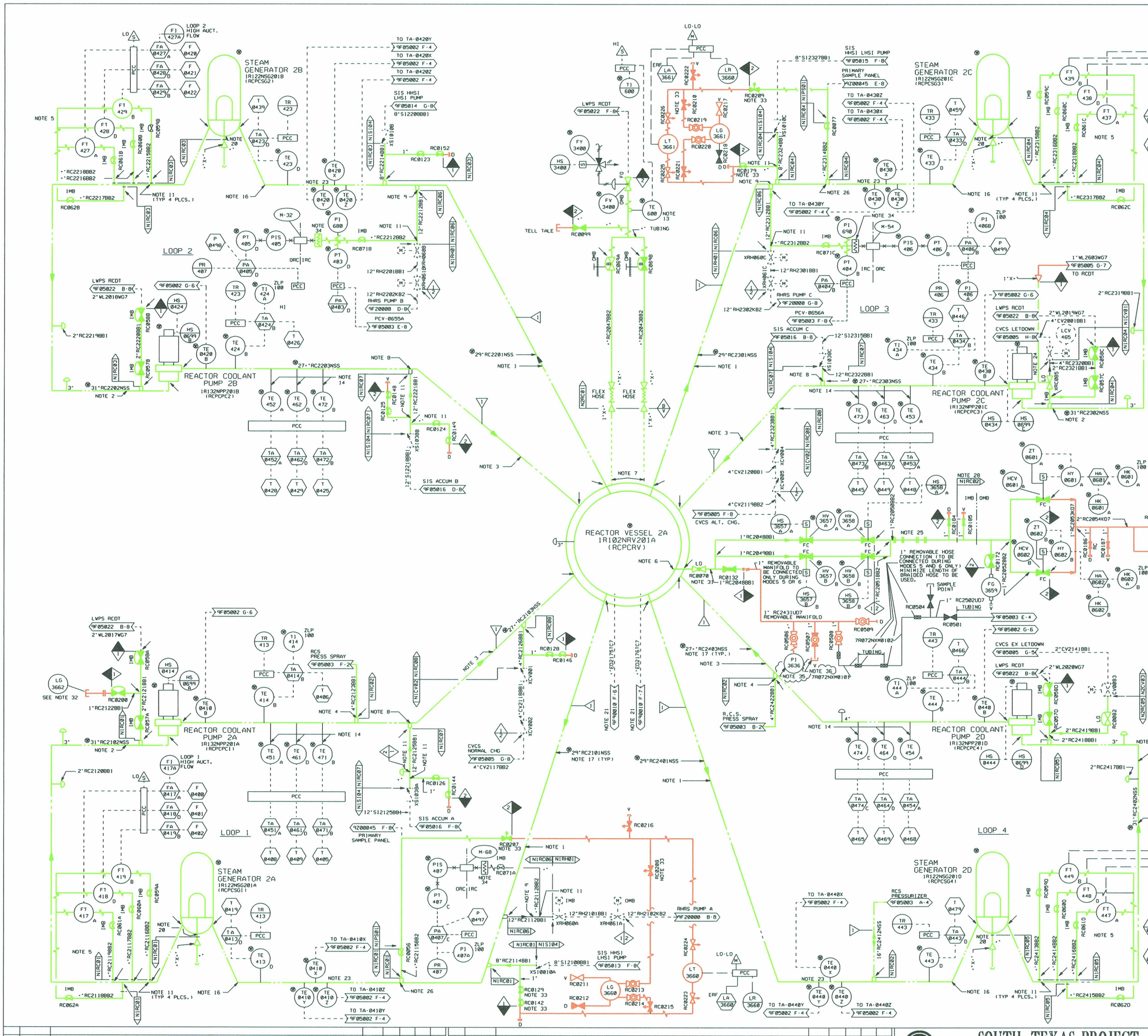

NOTES:

1. 29" INSIDE DIAMETER.
2. 31" INSIDE DIAMETER.
3. 27.5" INSIDE DIAMETER.
4. SPRAY LINE SCOOP.
5. ELBOW FLOW METERS.
6. VENT PIPE FURNISHED WITH REACTOR VESSEL HEAD.
7. HEAD GASKET MONITORING CONNECTIONS FURNISHED WITH REACTOR VESSEL. LINE "RC2047BB2 IS CONNECTED TO THE MONITOR TUBE AND LINE " RC2043BB2 IS CONNECTED TO THE OUTER MONITOR TUBE.
8. INCLINED INJECTION NOZZLE.
9. LOCATE CONNECTION IN BOTTOM HALF OF REACTOR COOLANT PIPING ON 45 DEGREE ANGLE TO VERTICAL.
10. LOOP IDENTIFICATION AS SHOWN.
11. PROVIDE " 1N 1D FLOW RESTRICTOR PER DWG 9P05051 FOR TRANSISTION FROM SC1 TO SC2.
12. DELETED
13. STRAP-ON (SURFACE MOUNTED) RTD LOCATED AT BOTTOM OF PIPE.
14. FAST RESPONSE, NARROW RANGE TEMPERATURE DETECTORS. AROUND THE PERIPHERY OF COLD LEG LOCATED IN THE SAME VERTICAL PLANE. 120 DEGREES APART.
15. REFER TO DRAWING 9A310F00001 AND 9A310F00002 FOR IDENTIFICATION NUMBER DETAILS.
16. REDUCING ELBOW 31" I.D. X 29" I.D.
17. FURNISHED BY WESTINGHOUSE.
18. ALL INSTRUMENTS SHOWN ON THIS P & ID HAVE SYSTEM DESIGNATOR RC.
19. ALL INSTRUMENTS SHOWN ON THIS P & ID HAVE SEPARATION GROUP "N" UNLESS OTHERWISE NOTED.
20. STEAM GENERATOR IS FURNISHED WITH "" FLOW RESTRICTOR FOR TRANSISTION FROM SC1 TO SC2.
21. PIPING PROVIDED BY BEC TO COLLECT DRAINAGE FROM THE REACTOR VESSEL FLANGE DRAIN MAINFOLD. DRAIN PIPE LOCATED AT THE 144" AND 216" AZIMUTHS ONLY. DRAIN MAINFOLD WHICH COLLECTS DRAINAGE FROM 36 CLOSURE STUD ASSEMBLIES IS FURNISHED BY WESTINGHOUSE.
22. DELETED.
23. FAST RESPONSE, NARROW RANGE TEMPERATURE DETECTORS FOR THE REACTOR CONTROL AND PROTECTION SYSTEM. SEE 9F05002 (DETAIL A) FOR ACTUAL PHYSICAL LAYOUT.
24. VALVE STEM LEAKOFF LINES ARE TO BE SLOPED DOWNWARD AND SHALL NOT HAVE TRAPS OR LOOPS.
25. PROVIDE SPOOL PIECE ON EACH SIDE OF CABLE BRIDGE.
26. A 0.234 INCH ID NOZZLE IS PROVIDED BY WESTINGHOUSE FOR TRANSISTION FROM SC1 TO SC2.
27. THE PROVISION OF NB-6211 OF THE 1980 EDITION SB1 ADDENDUM OF ASME CODE SECTION III IS A CLARIFICATION OF INTENT OF THE PROVISIONS OF NB-6211 OF THE 1974 EDITION W75 ADDENDUM AND THE USE OF NB-6211 OF THE SUMMER 81 IS ACCEPTABLE TO WESTINGHOUSE AS PERMITTED UNDER PARAGRAPH NCA-1140.

NOTES: (CONTINUED)

28. FROM THE FIRST ANCHOR BEYOND THE REFUELING BRIDGE.
29. THE REACTOR HEAD VENT LINE IS TO BE TESTED ONLY WHEN THE FOLLOWING CONDITIONS EXIST :
    A. PRESSURE IS AT OR BELOW 100 PSIG.
    B. TEMPERATURE IS AT OR BELOW 250° F.
30. DELETED
31. VALVE TO BE LOCKED OPEN DURINGMODES 1,2,3 & 4.
32. THIS CONNECTION TO BE USED DURING MID-LOOP OPERATION FOR LEVEL GAUGE LG-3662. REFER TO INSTRUMENTATION DWG. 7248Q745030 SHT. 143 FOR INSTALLATION DETAIL. DURING NORMAL OPERATION LINE TO BE CAPPED OFF. SEE P&ID 5R149F05003-2, D-6, FOR LG-3662 REFERENCE LOCATION.
33. DURING ALL MODES OF OPERATION (EXCEPT MID-LOOP OPERATION) THE LEVEL GAUGE AND TRANSMITTER SHALL BE ISOLATED AT VALVES RC0129, RC0142, RC0179, RC0207, RC0208, RC0209, AND RC0210.
34. DIAPHRAM ISOLATOR SUPPLIED AS PART OF PIS-405, PIS-406 & PIS-407.
35. PRESSURE INDICATOR PI 3636 MAY BE REMOVED IF NOT REQUIRED FOR RCS DRAIN OR FILL AND VENT PROCESS.
36. A TEMPORARY VACUUM GAGE MAY BE CONNECTED AT THIS LOCATION WHEN REQUIRED FOR VACUUM FILL OF THE RCS.

REFERENCES:

1. FOR PIPING & INSTRUMENT SYMBOLS SEE DWG. 0F00001 & 0F00002.
2. WESTINGHOUSE DWG. NO. 1465E57, SUB. 6 SHT. 1 OF 3. BEC NO. 14926-0281(2)00001-WN.

D257

LR BOUNDARY DRAWING NO.	REV.
LR-STP-RC-5R149F05001#2	0

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
29		INCORP. DCN 0700252.	JSH				
28	2-28-05	INCORP. DCN'S 05000093 AND 0500261.	VJM	ON FILE			
27	12-4-02	REVISED PER CR 02-16807-1	KS	ON FILE			
0-26	6-28-83	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

ESEED.DGN

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING AND INSTRUMENTATION DIAGRAM
RCS PRIMARY COOLANT LOOP

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA553.291	D070928		NONE	5R149F05001#2		29