



- NOTES:**
- 29" INSIDE DIAMETER.
  - 27.5" INSIDE DIAMETER.
  - SPRAY LINE SCOOP.
  - ELBOW FLOW METERS.
  - VENT PIPE FURNISHED WITH REACTOR VESSEL HEAD.
  - HEAD GASKET MONITORING CONNECTIONS FURNISHED WITH REACTOR VESSEL HEAD.
  - LINE "RC1047882" IS CONNECTED TO THE OUTER MONITOR TUBE.
  - INCLUDED INJECTION NOZZLES.
  - LOOP IDENTIFICATION AS SHOWN.
  - PROVIDE 1" IN ID FLOW RESTRICTOR PER DWG #F050051 FOR TRANSITION FROM SCL TO SCL.
  - A BLIND FLANGE IS TO BE USED FOR ALL MODES OF OPERATION HAS BEEN DRAINED BELOW THE STEAM GENERATOR NOZZLES.
  - REFER TO DRAWING NBS1190000 AND DRAWING NBS1190002 FOR IDENTIFICATION NUMBER DETAILS.
  - REDUCING ELBOW 31" I.D. X 29" I.D.
  - FURNISHED BY WESTINGHOUSE.
  - ALL INSTRUMENTS SHOWN ON THIS PID HAVE SEPARATION GROUP "N" UNLESS OTHERWISE NOTED.
  - DELETED.
  - PIPING PROVIDED BY BEC TO COLLECT DRAINAGE FROM THE REACTOR VESSEL HEAD DRAIN MANIFOLD. DRAIN PIPE LOCATED AT THE 12" AND 21" AZIMUTHS ONLY. DRAIN MANIFOLD WHICH COLLECTS DRAINAGE FROM 36 CLOSURE STUD ASSEMBLIES IS FURNISHED BY WESTINGHOUSE.
  - DELETED.
  - FAST RESPONSE, NARROW RANGE TEMPERATURE DETECTORS FOR THE REACTOR CONTROL AND PROTECTION SYSTEM. REFER TO DRAWING NBS1190002 (DETAIL A) FOR ACTUAL PHYSICAL LAYOUT.
  - VALVE STEM LEAKOFF LINES ARE TO BE SLOPED DOWNWARD AND SHALL NOT HAVE TRAPS OR LOOPS.
  - PROVIDE SPOOL PIECE ON EACH SIDE OF CABLE BRIDGE.
  - A 0.234 INCH I.D. NOZZLE IS PROVIDED BY WESTINGHOUSE FOR TRANSITION FROM SCL TO SCL.
  - THE PROVISION OF NB-6211 OF THE 1980 EDITION 501 ADDENDUM OF ASME CODE SECTION III IS A CLARIFICATION OF INTENT OF THE PROVISIONS OF NB-6211 OF THE 1974 EDITION WITH ADDENDUM AND THE USE OF NB-6211 OF THE SUMMER 81 IS ACCEPTABLE TO WESTINGHOUSE UNDER PARAGRAPH NCA-1148.
  - FROM THE FIRST ANCHOR BEYOND THE REFUELING BRIDGE.
  - THE REACTOR HEAD VENT LINE IS TO BE TESTED ONLY WHEN THE FOLLOWING CONDITION EXISTS:
    - PRESSURE IS AT OR BELOW 100 PSIG
    - TEMPERATURE IS AT OR BELOW 250 F
  - DURING ALL MODES OF OPERATION (EXCEPT MID-LOOP OPERATION) THE LEVEL GAUGE AND TRANSMITTER SHALL BE ISOLATED AT VALVES RC0129, RC0142, RC0179, RC0207, RC0209 & RC0210.
  - THIS CONNECTION IS TO BE USED DURING MID-LOOP OPERATION FOR LEVEL GAUGE LG-366. REFER TO INSTRUMENTATION DWG 72489245030 SHT 143 FOR INSTALLATION DETAIL. DURING NORMAL OPERATION, LINE IS TO BE CLOSED OFF. SEE PID 5R149F05003-1, D-6, FOR LG-3662 REFERENCE LOCATION.
  - DELETED.
  - VALVE TO BE LOCKED OPEN DURING MODES 1-2-3 & 4.
  - DIAPHRAM ISOLATOR SUPPLIED AS PART OF PIS-405, PIS-406 & PIS-407.
- NOTES CONTINUED:**
- PRESSURE INDICATOR P1-3636 MAY BE REMOVED IF NOT REQUIRED FOR RCS DRAIN OR FILL AND VENT PROCESS.
  - A TEMPORARY VACUUM GAGE MAY BE CONNECTED AT THIS LOCATION WHEN REQUIRED FOR VACUUM FILL OF THE RCS.

- REFERENCES:**
- FOR PIPING & INSTRUMENT SYMBOLS SEE DWG. #F00001 & #F00002.
  - WESTINGHOUSE DWG. NO. 1207E14, SUB. 6, SHT. 1 OF 3, REC. NO. 14926-02011100001-00N.

LR BOUNDARY DRAWING NO. REV.  
 LR-STP-RC-5R149F05001#1 0A

NO.	ISSUE DATE	REVISION	SIGNATURES ON FILE						NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	PRIORITY	CADD FILE NO.	FSLUG. NO.	ST1. NO.	SCALE	DWG. NO.	SHT.	REV.
			JSH	JGL	VJM	KS	NO.	ISSUE DATE																
37		INCORP. DCN 0700251.																						
36	4-12-05	INCORP. DCN 0500631																						
35	2-20-05	INCORP. DCN 0500092.																						
34	12-4-02	REVISED PER CR 02-16807-1																						
33	6-20-03	ISSUED FOR CONSTRUCTION.																						

**SOUTH TEXAS PROJECT**  
**NUCLEAR OPERATING COMPANY**

PIPING & INSTRUMENTATION DIAGRAM  
 RCS PRIMARY COOLANT LOOP

SCALE: NONE  
 DWG. NO.: 5R149F05001#1  
 SHT.: 1  
 REV.: 37