



- NOTES:**
- SLOPE SPRAY PIPE DOWNWARD TO PROVIDE WATER SEAL BETWEEN PRESSURIZER AND SPRAY VALVES. SPRAY VALVES SHOULD BE AT LEAST 10 FEET BELOW TOP OF PRESSURIZER.
  - STRAP ON (SURFACE MOUNTED) RTD'S LOCATED AT BOTTOM OF PIPES.
  - SLOPE PIPE DOWNWARD TO PROVIDE WATER SEAL BETWEEN PRESSURIZER AND MOTOR OPERATED RELIEF VALVES.
  - LOCATE APPROXIMATELY MIDWAY BETWEEN LOOP AND PRESSURIZER.
  - DRAIN LINES TO BE SLOPED DOWN FROM LOOP SEALS TO CONNECT WITH P.A.T. HEADER LINE.
  - PROVIDE 1" ID FLOW RESTRICTOR PER DWG 9F05001 TO CHANGE FROM SC1 TO SC2 AT RESTRICTOR.
  - THIS CONNECTION TO BE USED DURING MID-LOOP OPERATION FOR LEVEL GAUGE LG3662. REFER TO INSTRUMENTATION DWG. 7249745830 SHT. 143 FOR INSTALLATION DETAIL. DURING NORMAL OPERATION LINE TO BE CAPPED. SEE P10 3R149F05001-2, C-B, FOR LG3662 REFERENCE LOCATION.
  - REFER TO DRAWINGS 9A310F00001 AND 9A310F00002 FOR IDENTIFICATION NUMBER DETAILS.
  - DIGITAL PRESSURE INDICATOR TO BE CONNECTED TO THIS LINE, DOWNSTREAM OF THE SAMPLE HEAT EXCHANGER.
  - HOSE TO BE CONNECTED DURING RCS VACUUM DEGAUSSING OPERATIONS.
  - ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SYSTEM DESTINATOR RC.
  - ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SEPARATION GROUP "N" UNLESS OTHERWISE NOTED.
  - LOCATE RTD'S IN WATER SEAL AND AS CLOSE AS POSSIBLE TO THE CONTROL VALVE BUT UPSTREAM OF BYPASS LINE CONNECTION.
  - RCS COLD OVERPRESSURE MITIGATION ACTUATION SWITCH ("ARM/BLOCK").
  - FOR PRESSURIZER PRESSURE OR LEVEL DERIVED ANNUNCIATOR AND COMPUTER INPUTS SEE WESTINGHOUSE PROCESS CONTROL BLOCK DIAGRAMS DWG. NO. 0758076 SHT. 15, 17 & 18 (BEC LOG NO. 0330-02-0000A-00050 & 00051) AND FUNCTIONAL DIAGRAMS DWG. NO. 0758022 SHTS. 6 AND 12. (BEC LOG NO. 0330-02-00018 AND 00024-WN).
  - ANNUNCIATORS OF PRESSURIZER TEMPERATURE INSTRUMENT CHANNELS 607 AND 608 ARE COMBINED IN A SINGLE WINDOW.
  - A 8.91 INCH FLOW RESTRICTOR IS PROVIDED BY ② TO ALLOW FOR A CLASS BREAK BETWEEN SC1 AND SC2.
  - VALVE STEM LEAKOFF LINES ARE TO BE SLOPED DOWNWARD AND SHALL NOT HAVE TRAPS OR LOOPS.
  - REFER TO WESTINGHOUSE SPEC 14926-09501200004 (W455847) FOR DEFINITION OF THOSE PORTIONS OF THE 0311 PRESSURIZER SAFETY RELIEF DISCHARGE HEADER WHICH ARE CLASSIFIED AS ABOVE CLASS 1 W SUPPORTS.
  - THE SAFETY RELIEF VALVE DISCHARGE FLANGE TO PIPE FLANGE JOINT SHALL BE MADE AS A QUALITY CLASS 1 BOLT CONNECTION.
  - TO BE CONNECTED DURING MODES 5 AND 6 ONLY WHEN RCS PRESSURE IS LESS THAN 150 PSIG.
  - PRESSURIZER PRESSURE INSTRUMENT CHANNELS 455, 456, 457 & 458 ARE COMBINED IN A SINGLE ANNUNCIATOR WINDOW VIA THE INTEGRATED COMPUTER SYSTEM.
  - FOR EXACT LOCATION OF CLASS BREAK LOCATIONS, SEE DRAWINGS 1CR356, 1CR357, 1CR364 AND 1CR365.

**REFERENCES**

- FOR PIPING & INSTRUMENT SYMBOLS SEE DRAWINGS 9F00001 & 9F00002.
- WESTINGHOUSE DWG. NO. 145E57 SHT. 2 OF 3. BEC LOG 14926-02811200002-WN.

2269

LR BOUNDARY DRAWING NO.	REV.
LR-STP-RC-5R149F05003#2	0

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
20		REVISED PER CR 07-84-5.													
19	3-11-83	INCORP. DCN 0201841.													
18	12-04-82	REVISED PER CR 02-16807-1													
0-17	6-9-83	ISSUED FOR CONSTRUCTION.													

**SOUTH TEXAS PROJECT  
NUCLEAR OPERATING COMPANY**

PIPING AND INSTRUMENTATION DIAGRAM  
RCS PRESSURIZER

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA555.201	0070928		NONE	5R149F05003#2	20	0