



- NOTES:**
1. SLOPE SPRAY PIPE DOWNWARD TO PROVIDE WATER SEAL VALVES PRESSURIZER AND SPRAY VALVES. SPRAY VALVES SHOULD BE AT LEAST 10 FEET BELOW TOP OF PRESSURIZER.
 2. STRAP ON (SURFACE MOUNTED) RTD'S LOCATED AT BOTTOM OF PIPE.
 3. SLOPE PIPE DOWNWARD TO PROVIDE WATER SEAL BETWEEN PRESSURIZER AND MOTOR OPERATED RELIEF VALVES.
 4. LOCATE APPROXIMATELY MIDWAY BETWEEN LOOP AND PRESSURIZER.
 5. DRAIN LINES TO BE SLOPED DOWN FROM LOOP SEALS TO CONNECT WITH P.R.T. HEADER LINE.
 6. PROVIDE 1/2" ID FLOW RESTRICTOR PER DWG 9905051 TO CHANGE FROM SC1 TO SC2 AT RESTRICTOR.
 7. THIS CONNECTION TO BE USED DURING MID-LOOP OPERATION FOR LEVEL GAUGE LG3662. REFER TO INSTRUMENTATION DWG 7249245830 SH1 143 FOR INSTALLATION DETAIL. DURING NORMAL OPERATION, LINE TO BE CAPPED. SEE P&ID 5R149F05001-1, C-B, FOR LG-3662 REFERENCE LOCATION.
 8. DELETED
 9. DIGITAL PRESSURE INDICATOR TO BE CONNECTED TO THIS LINE, DOWNSTREAM OF THE SAMPLE HEAT EXCHANGER.
 10. HOSE TO BE CONNECTED DURING RCS VACUUM DEGASSING OPERATIONS.
 11. ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SYSTEM DESIGNATOR RC.
 12. ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SEPARATION GROUP "M" UNLESS OTHERWISE NOTED.
 13. LOCATE RTD'S IN WATER SEAL AND AS CLOSE AS POSSIBLE TO THE CONTROL VALVE BUT UPSTREAM OF BYPASS LINE CONNECTION.
 14. RCS COLD OVERPRESSURE MITIGATION ACTUATION SWITCH "FORM-BLOCK" 1
 15. FOR PRESSURIZER PRESSURE OR LEVEL DERIVED ANNUNCIATOR AND COMPUTER INPUTS SEE WESTINGHOUSE PROCESS CONTROL BLOCK DIAGRAMS DWGS. 8758076 SH1S, 15, 17, 18 AND FUNCTIONAL DIAGRAMS DWG. 8758022 SH1S, 6 AND 12.
 16. ANNUNCIATORS OF PRESSURIZER TEMPERATURE INSTRUMENT CHANNELS 687 AND 688 ARE COMBINED IN A SINGLE WINDOW.
 17. A 0.191 INCH FLOW RESTRICTOR IS PROVIDED BY @ TO ALLOW FOR A CLASS BREAK BETWEEN SC1 AND SC2.
 18. VALVE STEM LEAKOFF LINES ARE TO BE SLOPED DOWNWARD AND SHALL NOT HAVE TRAPS OR LOOPS.
 19. REFER TO WESTINGHOUSE SPEC 095811100004(W-958047) FOR DEFINITION OF THOSE PORTIONS OF THE B31.1 PRESSURIZER SAFETY RELIEF DISCHARGE HEADER WHICH ARE CLASSIFIED AS ASME CLASS 1 NF SUPPORTS.
 20. THE SAFETY RELIEF VALVE DISCHARGE FLANGE TO PIPE FLANGE JOINT SHALL BE MADE AS A QUALITY CLASS 1 BOLTED CONNECTION.
 21. PRESSURIZER PRESSURE INSTRUMENT CHANNELS 455, 456, 457 & 458 ARE AVERAGED (1) AND COMBINED IN A SINGLE ANNUNCIATOR WINDOW VIA THE INTEGRATED COMPUTER SYSTEM.
 22. FOR EXACT LOCATION OF CLASS BREAK BOUNDARY, SEE DRAWINGS 1CR22, 1CR26, 1CR28 AND 1CR20.

- REFERENCES:**
1. FOR PIPING & INSTRUMENT SYMBOLS SEE DRAWINGS 090001 & 090002.
 2. WESTINGHOUSE DWG. NO. 1207E14 SUB 7 SH1, 2 OF 3. REC. LOG 82811100002-WN.

LR BOUNDARY DRAWING NO. REV.
 LR-STP-RC-5R149F05003#1 0A

NO.	ISSUE DATE	REVISION	SIGNATURES ON FILE				NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
			VJM	JSH	JSH	JSH																
19	3-11-03	REVISED PER CR 07-84-4.																				
18	12-04-02	INCORP. DCN 0201835.																				
17	12-04-02	REVISED PER CR 02-16807-1																				
16	6-9-83	ISSUED FOR CONSTRUCTION.																				



SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY		PIPING AND INSTRUMENTATION DIAGRAM RCS PRESSURIZER	
1	FJA155.191	D070928	2
NONE	5R149F05003#1		19