



- REFERENCES:**
- FOR PIPING AND INSTRUMENT SYMBOLS SEE DRAWINGS
 - 9A310F00001 AND 9A310F00002
 - LWPS P&ID NO. 5R309F05022 + 2
 - LWPS P&ID NO. 7R309F05023 + 2
 - LWPS P&ID NO. 7R309F05024 + 2
 - LWPS P&ID NO. 7R309F05026 + 2
 - LWPS P&ID NO. 7R309F05028 + 2
 - LWPS P&ID NO. 7R309F05029 + 2
 - LWPS P&ID NO. 7R309F05031 + 2
 - LWPS P&ID NO. 7R309F05032 + 2
 - LWPS P&ID NO. 7R309F05033 + 2
 - LWPS P&ID NO. 7R309F05034 + 2
 - STICKLE DWG. NO. D-600-018 (R309 X 5638X1)
 - STICKLE DWG. NO. D-600-015B (R309 X 566CX1)
- NOTES:**
- MINIMUM OF 40" (5 DIA.) STRAIGHT RUN OF PIPE IS REQUIRED UPSTREAM OF ATTEMPERATOR.
 - MINIMUM OF 15' STRAIGHT RUN OF PIPE BETWEEN ATTEMPERATOR AND TEMPERATURE SENSOR. IF PIPE BEND REQUIRED WITHIN 30' OF ATTEMPERATOR USE TEE WITH BLIND FLANGE FOR EROSION CONTROL.
 - ONLY GENERAL MATERIAL RESTRICTIONS APPLY FOR WL0145 & WL0147.
 - ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR "ML", EXCEPT AS NOTED.
 - ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION DESIGNATOR "NF".
 - DELETED.
 - SEE GENERAL NOTE D ON 9A310F00002.
 - ROOM 19 THERMOSTAT WILL BE LOCATED NEAR BRS STEAM COND. PACKAGE.
 - ROOM 110 THERMOSTAT WILL BE LOCATED NEAR LINE R50007.
 - ROOM 67C THERMOSTAT WILL BE LOCATED NEAR THE ATTEMPERATOR.
 - ROOM 53B THERMOSTAT WILL BE LOCATED NEAR THE LWPS STEAM CONDENSATE PACKAGE 1A.
 - MINIMUM FLOW REQUIREMENT FOR THE CONDUCTIVITY ELEMENT IS 0.05 GPM. THROTTLE INSTRUMENT VALVES TO LIMIT THE FLOW TO 0.05 GPM.
 - DELETED.
 - DELETED.
 - THIS DRAWING SUPERSEDES A PORTION OF BAR DRAWING 7R301F5027-D.
 - THIS DRAWING IS SHEET 12 OF 12 OF THE LWPS P&ID SET. SEE REFERENCES 2 THROUGH 12 FOR OTHER LWPS P&ID SET DRAWINGS.
 - THIS SPECTACLE BLIND SHALL BE INSTALLED WITH THE LINE BLANKED OFF AT ALL TIMES WHEN THE LWPS EVAPORATOR IS NOT OPERATING. WHEN THE LWPS EVAPORATOR IS OPERATED THE SPECTACLE BLIND SHALL BE REVERSED TO ALLOW FLOW WITH CONTINUOUS RADIOACTIVE MONITORING OF THE LWPS STEAM CONDENSATE EFFLUENT PERFORMED.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-WL-5R309F05027#2	0

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
AUXILIARY STEAM AND CONDENSATE RETURN SYSTEM (LWPS)

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE	PRIORITY	CADD FILE NO.	FSUC. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
22	11-29-82	ISSUED FOR CONSTRUCTION.	VJM													1	FJA597.221	D070928		NONE	5R309F05027#2	22	