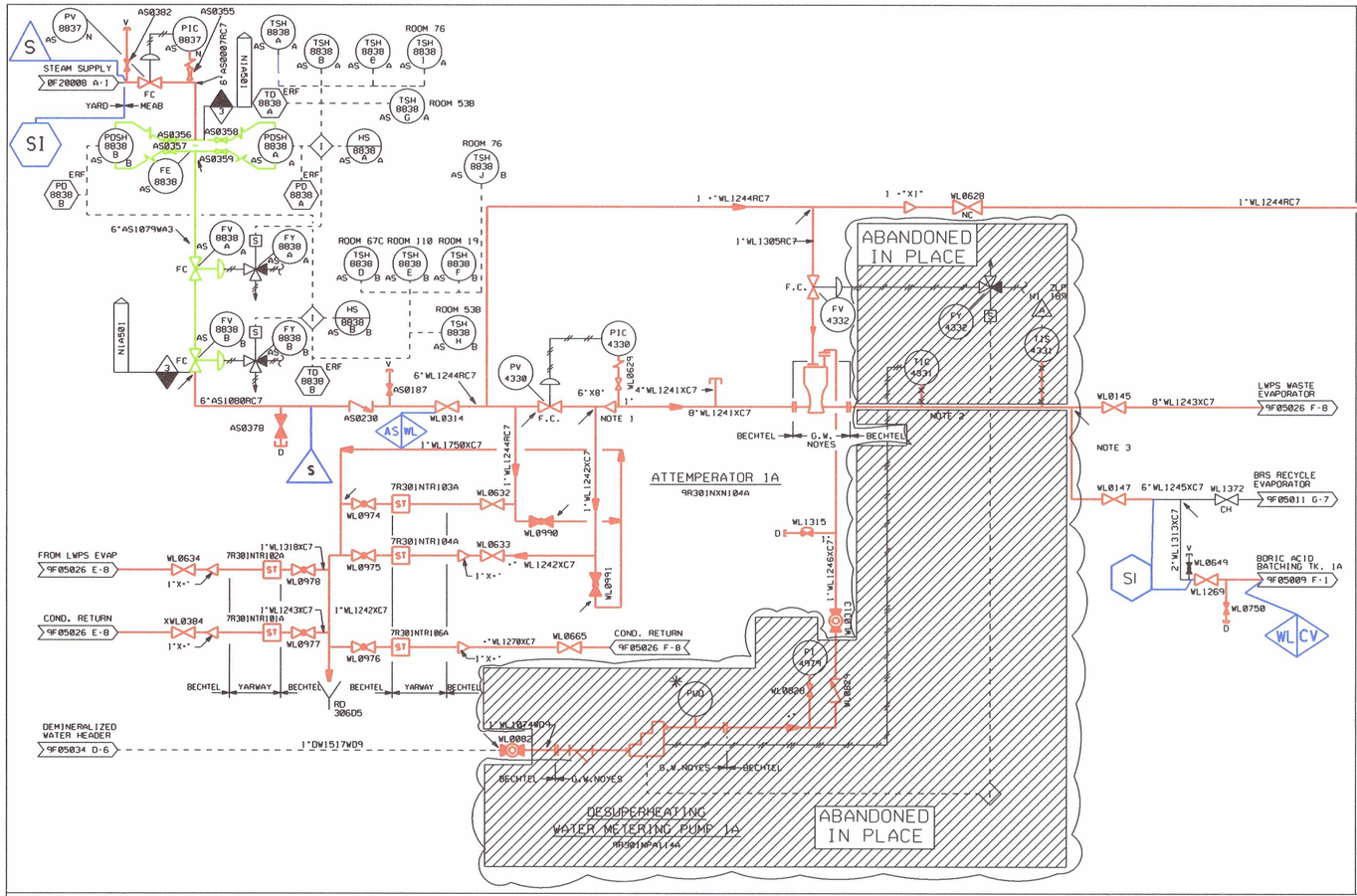

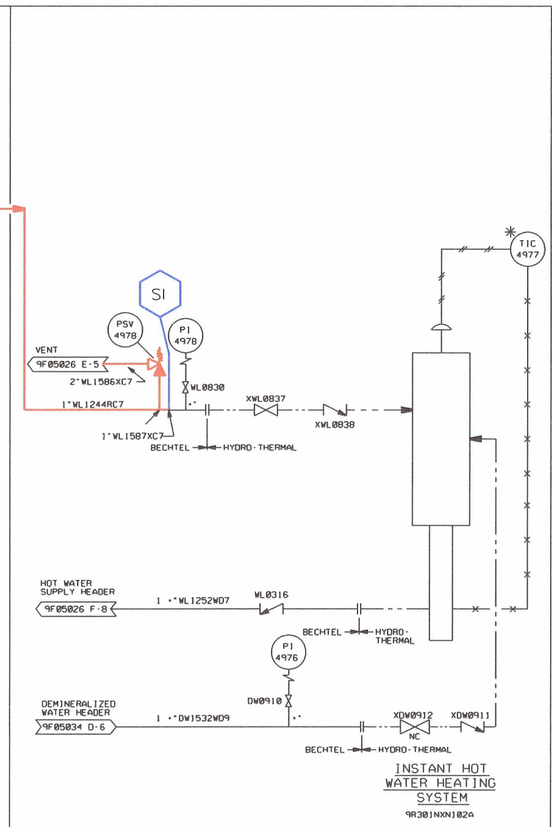

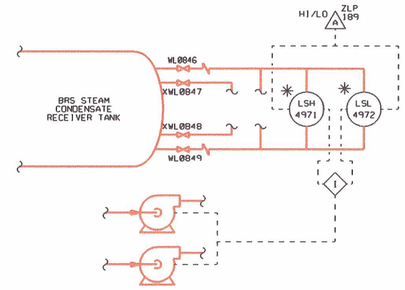

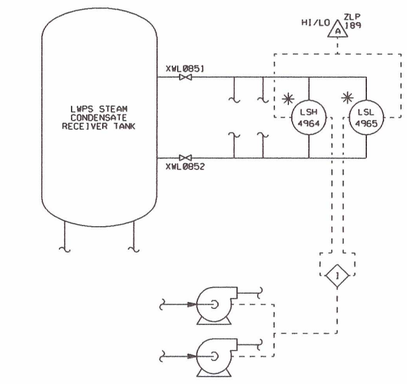

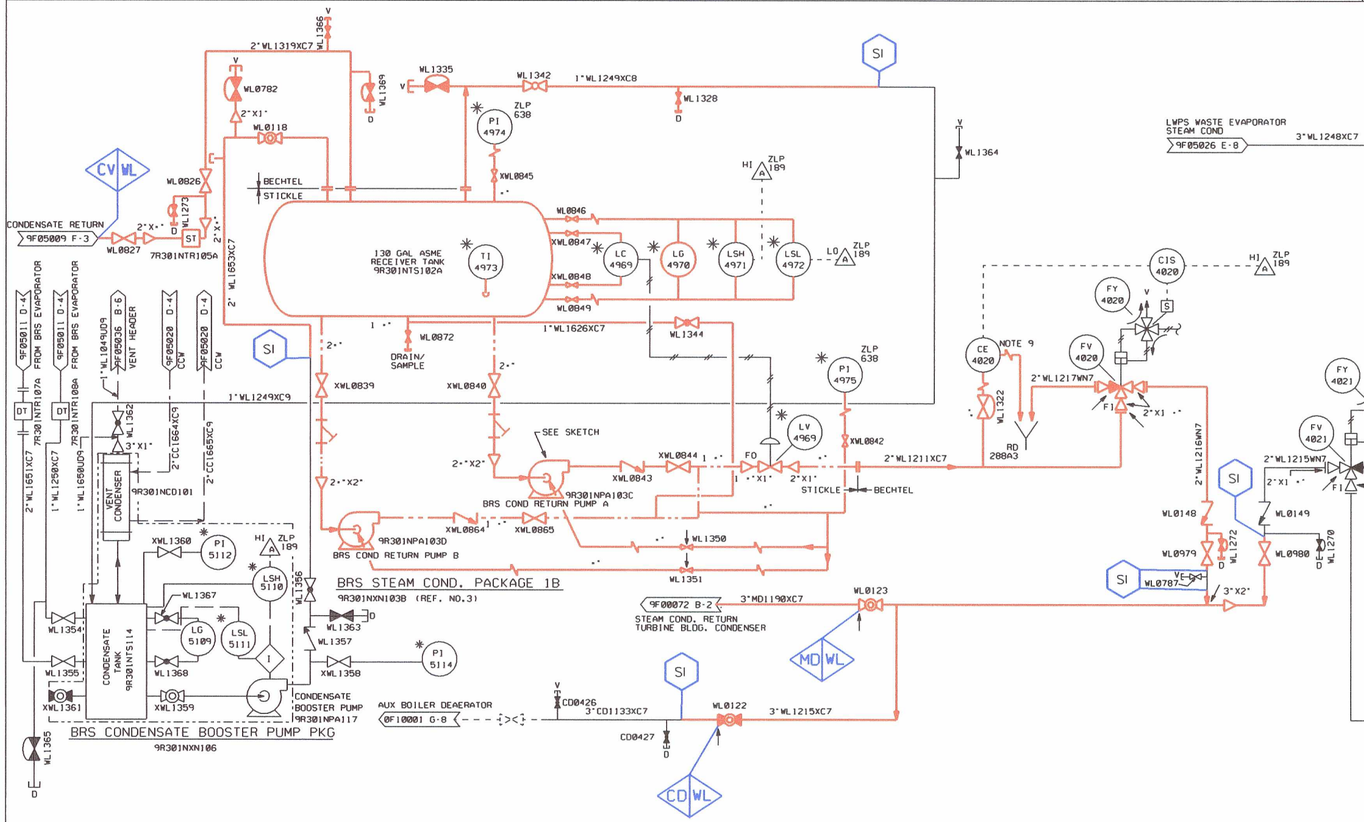

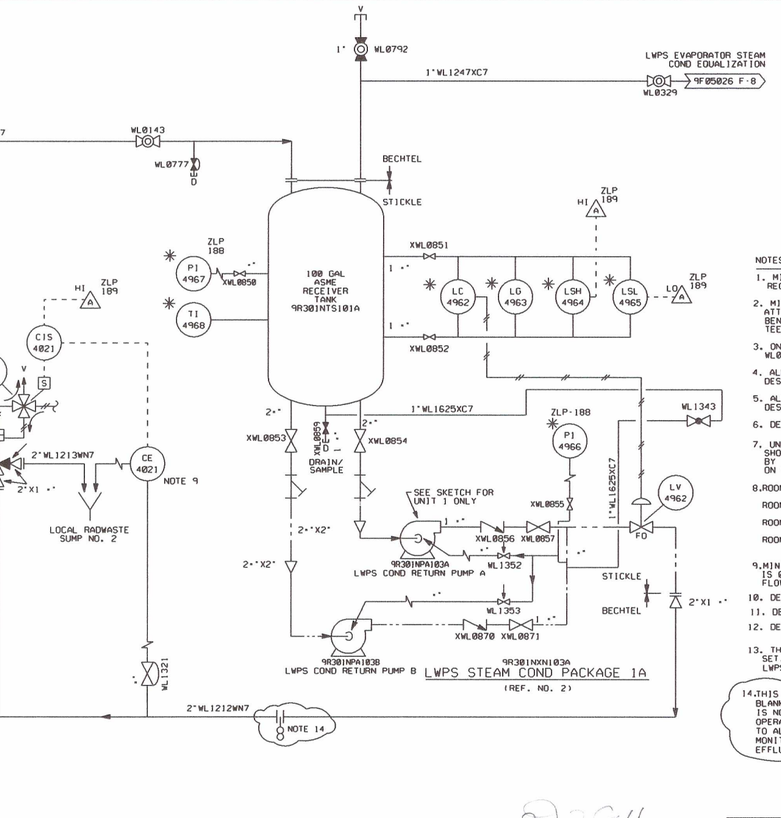

REFERENCES:

1. FOR PIPING & INSTRUMENT SYMBOLS SEE DRAWINGS 9A310F00001 & 9A310F00002.
2. LWPS P&ID NO. 5R309F05022.
3. LWPS P&ID NO. 7R309F05023.
4. LWPS P&ID NO. 7R309F05024.
5. LWPS P&ID NO. 7R309F05026.
6. LWPS P&ID NO. 7R309F90000.
7. LWPS P&ID NO. 7R309F90001.
8. LWPS P&ID NO. 7R309F90017.
9. LWPS P&ID NO. 7R309F90018.
10. LWPS P&ID NO. 7R309F90020.
11. LWPS P&ID NO. 7R309F90021.
12. LWPS P&ID NO. 7R309F90022.
13. STICKLE DWG NO. D-600-018 (R309 X 603BXX).
14. STICKLE DWG NO. D-600-015B (R309 X 506CXX).

NOTES:

1. MINIMUM OF 40'(5 DIA.) STRAIGHT RUN OF PIPE IS REQUIRED UPSTREAM OF ATTEMPERATOR.
2. 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.
3. ONLY GENERAL MATERIAL RESTRICTIONS APPLY FOR WL0145 & WL0147.
4. ALL INSTRUMENTS ON THIS P&ID HAVE SYSTEM DESIGNATOR 'WL'. EXCEPT AS NOTED.
5. ALL INSTRUMENTS ON THIS P&ID HAVE SEPARATION DESIGNATOR 'N'.
6. DELETED.
7. UNLESS OTHERWISE NOTED, ALL INSTRUMENTS SHOWN ON THIS DIAGRAM ARE PREFIXED BY THE UNIT NO. 1. SEE GENERAL NOTE D ON 9A310F00002.
8. ROOM 19-THERMOSTAT WILL BE LOCATED NEAR BRS STEAM COND. PACKAGE.
   ROOM 110-THERMOSTAT WILL BE LOCATED NEAR LINE AS0097.
   ROOM 67C-THERMOSTAT WILL BE LOCATED NEAR THE ATTEMPERATOR.
   ROOM 53B-THERMOSTAT WILL BE LOCATED NEAR THE LWPS STEAM CONDENSATE PACKAGE 1A.
9. MINIMUM FLOW REQUIREMENT FOR THE CONDUCTIVITY ELEMENT IS 0.05 GPM. THROTTLE INSTRUMENT VALVES TO LIMIT THE FLOW TO 0.05 GPM.
10. DELETED.
11. DELETED.
12. DELETED.
13. 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.
14. 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.

D294

LR BOUNDARY DRAWING NO.	REV
LR-STP-WL-5R309F05027#1	0A

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
20		INCORP. DCN'S 0101603 AND 9900485.	VJM				
0-1	11-29-82	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE

ESEED.DGN

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

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

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA197.201	D070928		NONE	5R309F05027#1		20

8 7 6 5 4 3 2 1