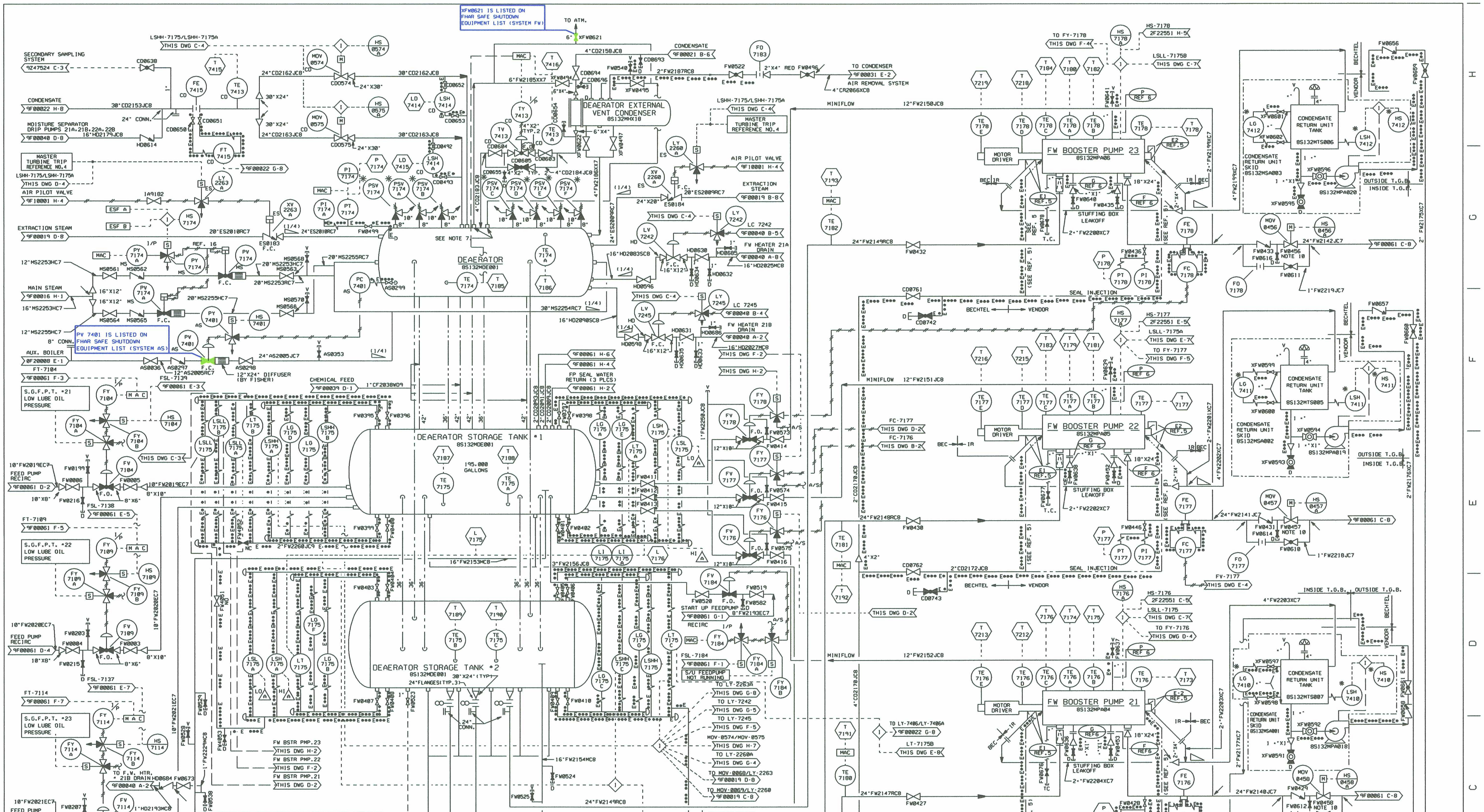

NOTES:

1. REFER TO DRAWINGS 9A310F00001 AND 9A310F00002 FOR IDENTIFICATION NUMBER DETAILS.
2. ALL INSTRUMENTS SHOWN ON THIS DIAGRAM HAVE SEPARATION GROUP N.
3. NORMAL (CONTROL STATION) AND START-UP(CONTROL SWITCH) LEVEL CONTROL FOR THE DEAERATOR WILL BE SHOWN ON P&ID 9F00022.
4. ALL INSTRUMENTS ON THIS DIAGRAM HAVE SYSTEM DESIGNATOR FW UNLESS OTHERWISE NOTED.
5. DELETED.
6. FOR DETAILS OF THE BOOSTER PUMP LUBE OIL SYSTEM SEE P&ID 6S132F22551.
7. FOR ACTUAL DEAERATOR VENT PIPING DETAILS SEE REFERENCE 10.
8. FOR DETAILS OF THE CONDENSATE RETURN UNITS SEE REFERENCES 11 & 12.
9. STORAGE CAPACITY FOR DEAERATOR STORAGE TANK #21 AND #22 COMBINED AT NORMAL OPERATING LEVEL.
10. THESE VALVES WILL NOT BE FULLY CLOSED WHEN MOTOR IS DE-ENERGIZED AND THE CLOSED INDICATING LIGHT IS ON. OPERATOR SHOULD MANUALLY CLOSE THE VALVE WHEN 100% CLOSING IS REQUIRED FOR ISOLATION PURPOSES.
11. ¾" VALVES FW0679 AND FW0680 (STAINLESS STEEL) ARE ATTACHED TO 1" CHROME-MOLY LINE USING 1" X ¾" SWAGES (STAINLESS STEEL).

REFERENCES:

1. DEAERATOR SUPPLIER DWG'S. DOC. NO'S 4312--00001,--00002,--00003, --00004,--00005,--00009 & --00010OH.
2. FOR PIPING AND INSTRUMENT SYMBOLS SEE DWGS. 0F00001 AND 0F00002.
3. Ⓦ SURFACE CONDENSERS OUTLINE DWG'S. DOC. NO'S 4001--01001,--01002 --01003,--01004 & --01005WA.
4. Ⓦ 886C417 SHT. 1,2,3,5. 4003-0801152,01154,01156 01158 WT TURBINE TRIP SCHEMATICS.
5. BOOSTER PUMP SEAL INJECTION CONTROL ARRANGEMENT DOC. NO. 8313--00054IV OR 8313--00035IV
6. BOOSTER PUMP GENERAL ARRANGEMENT AND NOTES DOC. NO.'S 4313--00003-IV, --00031-IV AND --00002IV.
7. DELETED
8. DELETED
9. DELETED
10. DEAERATOR VENT PIPING ARRANGEMENT DOC. NO. 4312--000050H.
11. 4444--00012GB
12. 4444--00016GB.
13. DELETED
14. DELETED
15. DELETED
16. FOR DETAILED PHEUMATIC TUBING CONNECTION SEE VENDOR DRAWING 8473--00030ZV AND 8473--00033ZV.

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
44	11-16-04	REVISED PER CR 04-14798-2.	JSH	ON FILE			
43	6-23-04	REVISED PER CR 04-7420-1.	VJM	ON FILE			
42	11-20-03	INCORP. DCN 0302101.	VJM	ON FILE			
41	7-8-02	INCORP. DCN 0201430.	JSH	ON FILE			
40	3-15-01	REVISED PER CR 96-8310-8.	SIGNATURES ON FILE				
0-39	7-25-83	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
46		INCORP. DCN 0401322 AND 0402578.	LNB				
45	5-26-05	INCORP. DCN 0401373	KS	ON FILE			

ESEED.DGN

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
FEEDWATER

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA712.461	D070928		NONE	6S139F20009#2		46

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

D144

LR BOUNDARY DRAWING NO.	REV.
LR-STP-FW-6S139F20009#2	0