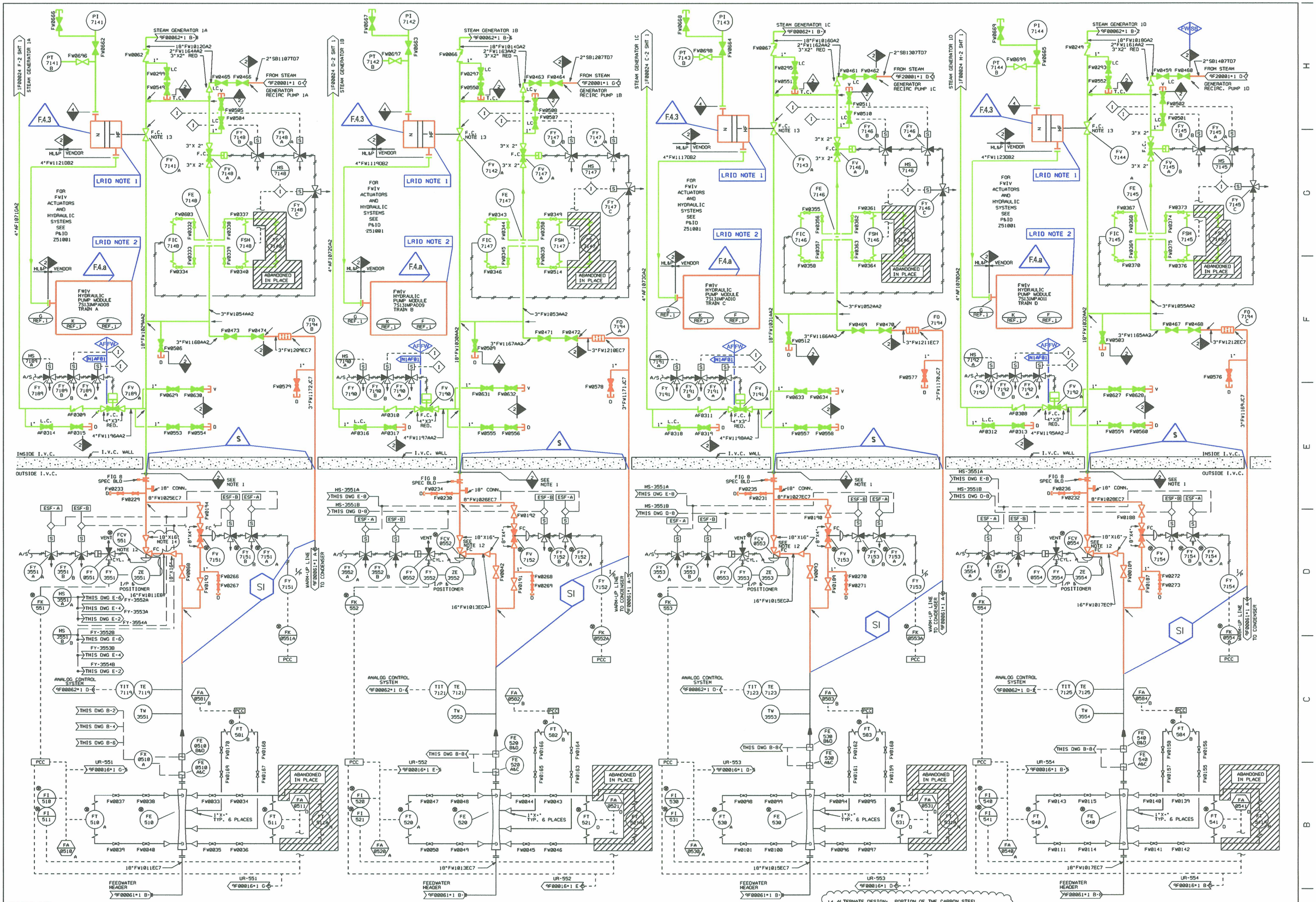

REFERENCES:

1. WKM DWG RS259331 (4026-1155-WV)
2. WKM DWG RS259359 (4026-1228-WV)
3. FOR PIPING AND INSTRUMENT SYMBOLS SEE DRAWINGS 6F00001 & 6F00002.
4. WKM DWG. RS 259359 (4026-00062-WV.0026-00058-WV).

NOTES:

1. SAFETY CLASS BREAK AT PIPE RUPTURE RESTRAINT ON I.V.C. WALL.
2. DELETED
3. DELETED.
4. ALL NON-SAFETY INSTRUMENTS SHOWN ON THIS P&ID HAVE SEPARATION GROUP N THE SEPARATION GROUP FOR SAFETY CLASS INSTRUMENTATION IS AS SHOWN.
5. ALL INSTRUMENTS SHOWN ON THIS DIAGRAM HAVE SYSTEM DESIGNATOR FW.
6. DELETED.
7. DELETED.
8. TAG NUMBER OF VALVES FURNISHED BY WKM IS SHOWN ON REF DWG 4.
9. 'N' SYSTEM DESIGNATOR IS N1FW01 EXCEPT AS SHOWN.
10. DELETED
11. DELETED
12. THE FEEDWATER CONTROL VALVES FAIL CLOSED ON LOSS OF AIR AND FAIL IN THE MODULATE MODE ON LOSS OF POWER TO THE SOLENOID VALVES ASSOCIATED WITH THEIR ACTUATOR. THE SOLENOID VALVES ARE NORMALLY OPEN AND ENERGIZED TO CLOSE THE FEEDWATER CONTROL VALVES.
13. THE FEEDWATER ISOLATION VALVES FAIL CLOSED ON LOSS OF HYDRAULIC FLUID AND FAIL OPEN ON LOSS OF POWER TO THE SOLENOID VALVES ASSOCIATED WITH THEIR ACTUATOR. THE SOLENOID VALVES ARE NORMALLY CLOSED AND ENERGIZED TO CLOSE THE FEEDWATER ISOLATION VALVES.
14. ALTERNATE DESIGN: PORTION OF THE CARBON STEEL PIPING IN THESE LINES HAS BEEN REPLACED WITH CHROME-MOLY STEEL FOR THE FLOW ACCELERATED CORROSION PROGRAM.

LR Note 2:
FWIV Hydraulic Pump Module is an active component. The pump module serves as the terminal component for (a)(2) attached piping.

LR Note 1:
FWIV Actuator is in the scope of License Renewal for (a)(2), spatial and attached functions.

LR BOUNDARY DRAWING NO.	REV.
LR-STP-FW-5S139F00063#1	0C

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
33	9-27-06	INCORP. DCN'S 0401080, 0401081, 0401082 AND 0401083.	VJM	ON FILE			
32	10-20-05	REVISED PER CR 04-12569-67.	VJM	ON FILE			
31	8-13-03	INCORP. DCN 0202167.	JSH	ON FILE			
30	03-25-03	INCORP. DCN 0003185 & 0202158	JSH	ON FILE			
29	9-27-01	INCORP. DCN 0101521	SIGNATURES ON FILE				
0-28	9-3-82	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
34		INCORP. DCN 0701443.	VJM				

ESSED. DCN

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM FEEDWATER

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA135.341	D070928		NONE	5S139F00063#1		34

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