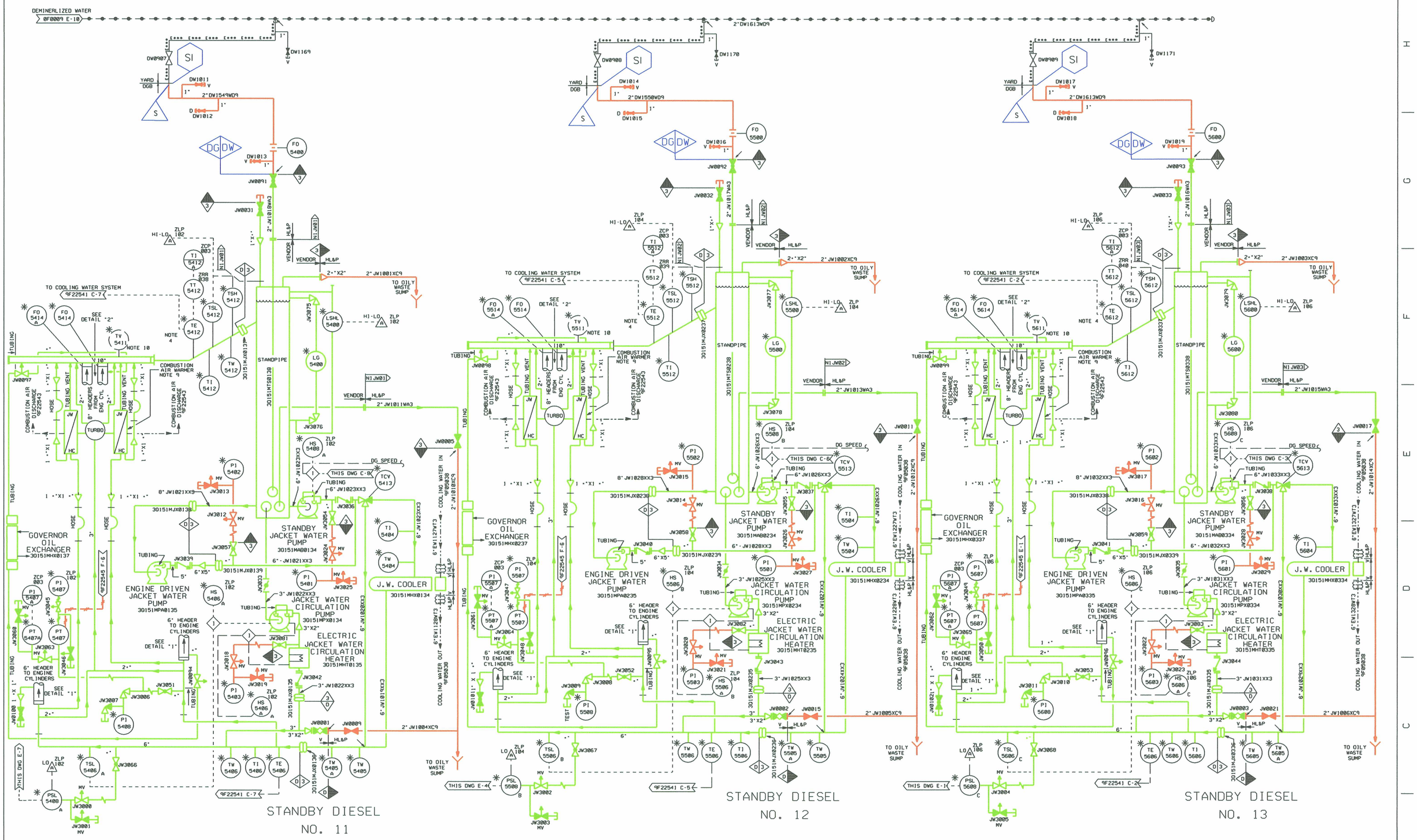


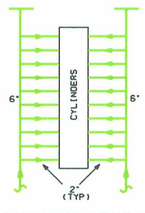
NOTES:

1. DELETED
2. ALL INSTRUMENTS SHOWN ON THIS P & ID HAVE SYSTEM DESIGNATOR JW UNLESS OTHERWISE DESIGNATED.
3. ALL INSTRUMENTS SHOWN ON THIS P & ID HAVE SEPARATION GROUP "N" UNLESS OTHERWISE NOTED.
4. DUAL RTD.
5. DELETED
6. DELETED
7. DELETED
8. DELETED
9. EQUIPMENT CONSTRUCTED TO ASME SECT. III. CLASS 3 INCLUDES: STANDPIPE, CIRCULATION AND STANDBY PUMPS, COOLERS, HEATER, THERMOSTATIC VALVE, BALL VALVE, CHECK VALVES, EXPANSION JOINTS, AND PIPING. ASME SECT. III. CLASS 3 CONSTRUCTION IS LIMITED TO SKID MOUNTED EQUIPMENT EXCEPT COMBUSTION AIR WARMER.
10. SEE P&ID 50159F22545 #1 FOR DETAILS.
11. "MV" INDICATES MANIFOLD VALVES.
12. DESCRIPTION FOR THE NON ASME SECTION III CLASS 3 COMPONENTS SUPPLIED WITH THE ESF DG SETS.

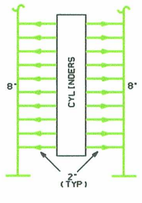
THE ENGINE MOUNTED COMPONENTS AND PIPING FROM THE ENGINE BLOCK TO THE ENGINE INTERFACE ARE CONSIDERED PART OF THE ENGINE ASSEMBLY AND ARE SEISMICALLY QUALIFIED TO CATEGORY I REQUIREMENTS. THIS PIPING AND ASSOCIATED COMPONENTS SUCH AS VALVES, MANUFACTURED HEADERS, FITTINGS, ETC. ARE DESIGNED, MANUFACTURED AND TESTED IN ACCORDANCE WITH THE GUIDELINES AND REQUIREMENTS OF DEMA, ANSI B31.1, ANSI N45.2 AND 10CFR50 APPENDIX B QA. THE DEMA STANDARDS PROVIDE ASSURANCE THAT THESE AUXILIARIES ARE DESIGNED, FABRICATED, ERECTED, AND TESTED TO QUALITY STANDARDS COMMENSURATE WITH THE SAFETY FUNCTION TO BE PERFORMED.

REFERENCES:

1. FOR PIPING & INSTRUMENT SYMBOLS SEE DWG. 9A310F00001 & 9A310F00002.
2. BECHTEL LOG 4041-01248CE & JACKET WATER PORTION OF BECHTEL LOG 4041-01185-CE.
3. JACKET WATER PORTION OF P&ID 50159F00060#1.
4. INCLUDES AS-BUILT CONDITIONS DEVELOPED FROM WALKDOWNS.



JACKET WATER TO ENGINE CYLINDERS
DETAIL 1



JACKET WATER FROM ENGINE CYLINDERS
DETAIL 2

D067

LR BOUNDARY DRAWING NO.	REV
LR-STP-DG-50159F22540#1	0B

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
15	2-25-96	INCORP. DCN 9502554.	SIGNATURES ON FILE				
14	10-11-95	INCORP PCF 306500A & EDITORIAL	SIGNATURES ON FILE				
13	7-17-95	INCORP. PCF 306579A	SIGNATURES ON FILE				
12	3-15-95	INCORP. PCF 306578A	SIGNATURES ON FILE				
11	9-2-93	EDITORIAL CHANGES (CHANGED CODE FLAGS)	SIGNATURES ON FILE				
0-10	7-24-86	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
20		INCORP. DCN 0500583.	JGL				
19	7-10-03	REVISED PER CR 03-10189-1	JGL	ON FILE			
18	11-5-98	INCORP. DCN 9604383 & 9600598	JSH	ON FILE			
17	6-11-98	INCORP. DCN 9502562	SIGNATURES ON FILE				
16	5-29-96	INCORP. DCN 9502557 & EDITORIAL (ADDED "0" TO TPNS)	SIGNATURES ON FILES				

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
STANDBY DIESEL
JACKET WATER

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA352.201	D070928		NONE	50159F22540#1		20

ESEED.DGN