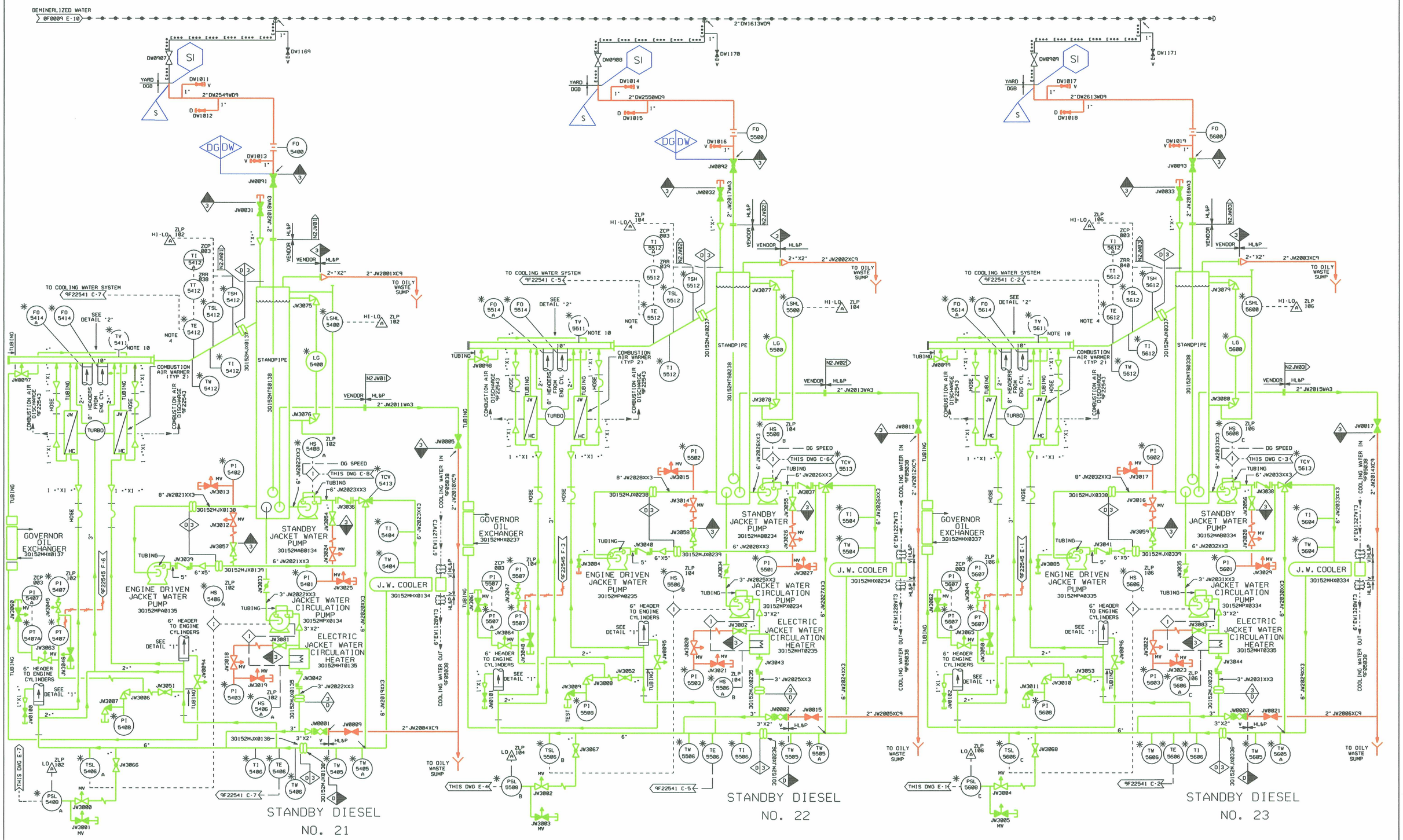


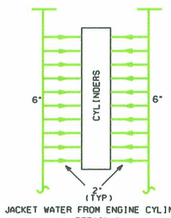
NOTES:

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 INTERCOOLERS.
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.

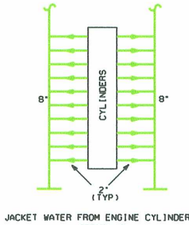
THE ENGINE MOUNTED COMPONENTS AND PIPING FROM THE ENGINE BLOCK TO THE ENGINE INTERFACE ARE CONSIDERED PART OF THE ENGINE ASSEMBLY AND ARE SEISMICALLY QUALIFIED TO CATEGORY I REQUIREMENTS. THIS PIPING AND ASSOCIATED COMPONENTS SUCH AS VALVES, MANUFACTURED HEADERS, FITTINGS, ETC. ARE DESIGNED, MANUFACTURED 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. 0F00001 & 0F00002.
2. BECHTEL LOG 8041-00110CE & JACKET WATER PORTION OF BECHTEL LOG 8041-01184-CE.
3. JACKET WATER PORTION OF P&ID 50159F00060 *2.
4. INCLUDES AS-BUILT CONDITIONS DEVELOPED FROM WALKDOWNS.



JACKET WATER FROM ENGINE CYLINDERS
DETAIL 1



JACKET WATER FROM ENGINE CYLINDERS
DETAIL 2

D068

LR BOUNDARY DRAWING NO.	REV.
LR-STP-DG-5Q159F22540#2	0A

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
15	9-6-95	INCORP. PCF 306559-A	SIGNATURES ON FILE				
14	7-3-95	INCORP. PCF 306558-A	SIGNATURES ON FILE				
13	6-21-95	INCORP. PCF 306557A	SIGNATURES ON FILE				
12	9-28-93	INCORP. PCF 168775A	SIGNATURES ON FILE				
11	9-13-93	INCORP. PCF 168773A	SIGNATURES ON FILE				
0-10	7-24-86	ISSUED FOR CONSTRUCTION	SIGNATURES ON FILE				

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
21		INCORP. DCN 0500584.	JGL				
20	3-24-05	INCORP. DCN 0500420.	VJM	ON FILE			
19	7-21-04	INCORP. DCN 0401501.	JSH	ON FILE			
18	4-07-04	INCORP. NDCN 04-2351-1-1.	VJM	ON FILE			
17	7-10-03	REVISED PER CR 03-10189-1	JGL	ON FILE			
16	4/11/96	INCORP. DCN 9604384 & 9600599	JSH	ON FILE			

ESEED.DGN

SOUTH TEXAS PROJECT NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
STANDBY DIESEL
JACKET WATER

PRIORITY	CADD FILE NO.	FSUG. NO.	STJ. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA772.211	D070928		NONE	5Q159F22540#2		21

8 7 6 5 4 3 2 1

H G F E D C B A