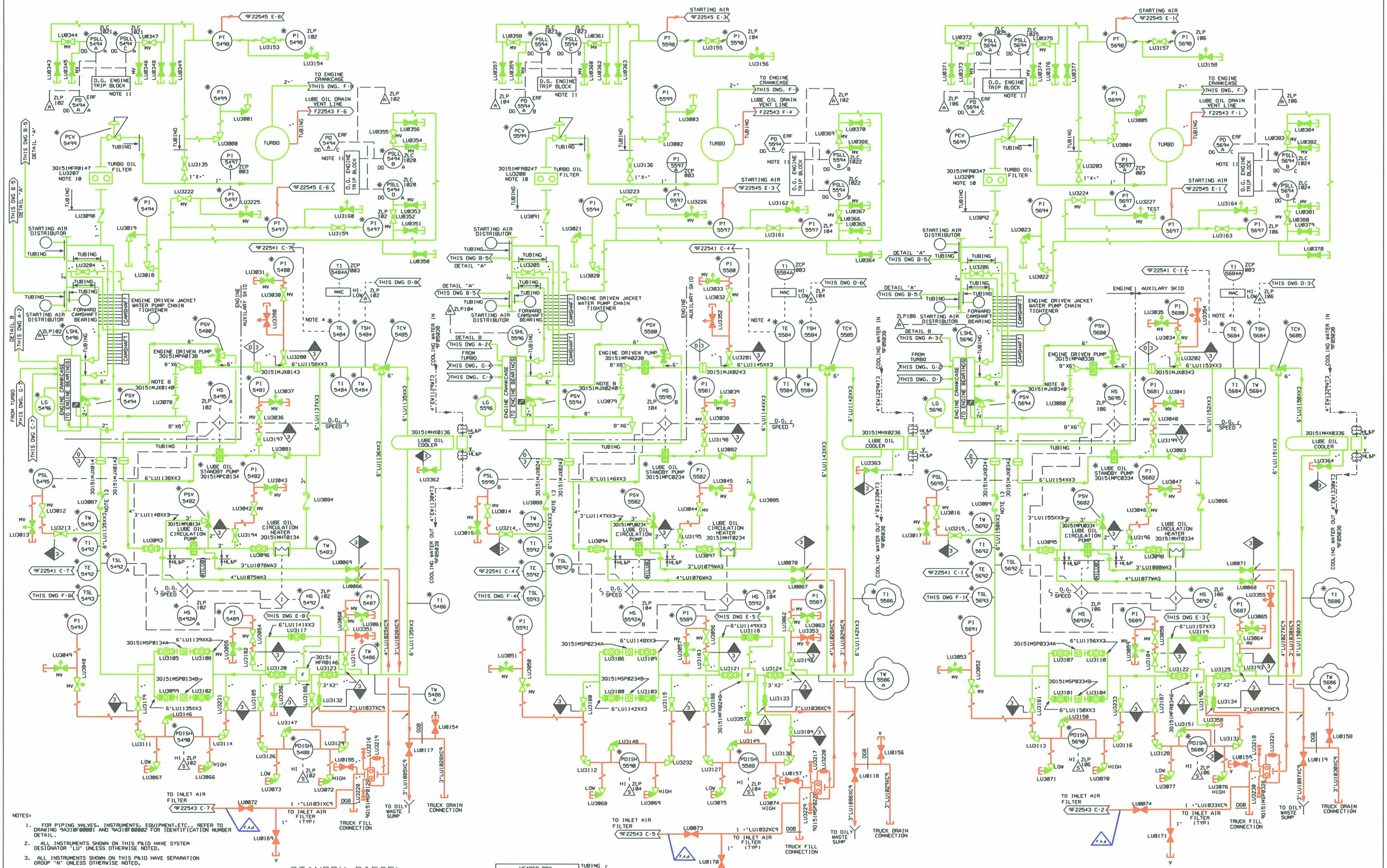

NOTES:

1. FOR PIPING VALVES, INSTRUMENTS, EQUIPMENT,ETC., REFER TO DRAWING 9A310F00001 AND 9A310F00002 FOR IDENTIFICATION NUMBER DETAIL.
2. ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SYSTEM DESIGNATOR 'LU' UNLESS OTHERWISE NOTED.
3. ALL INSTRUMENTS SHOWN ON THIS P&ID HAVE SEPARATION GROUP 'M' UNLESS OTHERWISE NOTED.
4. DUAL RTD.
5. DO NOT USE GALVANIZED PIPE FOR LUBE OIL SYSTEM.
6. EQUIPMENT CONSTRUCTED TO ASME SEC. III, CLASS 3 INCLUDES: CIRCULATING PUMP, LUBE OIL COOLER, FILTERS, STRAINERS, CHECK VALVES, BALL VALVES, THERMOSTATIC VALVE, EXPANSION JOINTS, HEATER & PIPING. ASME SEC. III, CLASS 3 EQUIPMENT IS LIMITED TO SKID MOUNTED EQUIPMENT.
7. POWER WIRING DIRECTLY TO COMPONENTS IS BY BECHTEL. CONTROL & METERING WIRING TO TERMINATE AT SKID MOUNTED JUNCTION BOXES BY CES. REF. CONDUIT AND WIRING SCHEMATIC KSV-07 SERIES.
8. DRESSER COUPLING.
9. 'MV' INDICATES MANIFOLD VALVES.
10. DUPLEX FILTER WITH INTEGRAL THREE WAY ISOLATION VALVE.
11. SEE P.O. 4041
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.
13. CHECK VALVE INTERNALS REMOVED.

REFERENCES:

1. FOR PIPING & INSTRUMENT SYMBOLS SEE DWG. 0F00001 & 0F00002.
2. BECHTEL LOG 4041-01247-CE & 4041-01185-CE.

LR NOTE 1:
THERE ARE SOME VALVES DOWNSTREAM OF THE NON-SAFETY INTERFACE FLAG (SOLID BLACK TRIANGLE) THAT ARE HIGHLIGHTED GREEN. THESE VALVES ARE SAFETY-RELATED PER THE STP MASTER EQUIPMENT LIST, AND THUS ARE ASSIGNED AN (A)(1) INTENDED FUNCTION.

LR BOUNDARY DRAWING NO.	REV
LR-STP-DG-5Q159F22542*1	0B

NO.	ISSUE DATE	REVISION	ORIG	CKR	RE	DV	SE
19		INCORP. DCN'S 9603547 & 9603548.	VJM				
0-18	7-24-86	ISSUED FOR CONSTRUCTION.	SIGNATURES ON FILE				

SOUTH TEXAS PROJECT
NUCLEAR OPERATING COMPANY

PIPING & INSTRUMENTATION DIAGRAM
STANDBY DIESEL
LUBE OIL

PRIORITY	CADD FILE NO.	FSUG. NO.	STI. NO.	SCALE	DWG. NO.	SHT.	REV.
1	FJA354.191	D070928		NONE	5Q159F22542*1		19

ESEED.DGN