

PROPOSAL

Presented To:

CVG / SIDOR

Pto Ordaz, Venezuela

**1 Frame 7FA – 1 Frame 7EA
Power Plant “B”**

By

DERWICK

DERWICK ASSOCIATES CORP.



Proposal No. T-1002

February 2, 2010

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CVG / SIDOR**

Table of Contents

Section 1.0	Introduction
Section 2.0	Scope of Work and Equipment Supply Matrix
Section 3.0	Design Basis and Interconnect Points
Section 4.0	Plant Performance
Section 5.0	Drawings (Plot Plan, Electric One Lines, PFDs)
Section 6.0	Schedule

Section 1.0 Introduction

This Technical Scope Document includes the details of a nominal 250 MW power plant to be constructed near the SIDOR R5 Substation. The plant will supply power to the SIDOR R5 Substation through a new 115KV overhead transmission line and to the SIDOR R6 Substation through an existing 115KV feeder from the R5 Substation. The plant will utilize (1) GE Frame 7FA and (1) GE Frame 7EA gas turbine generator. Generator Step-up Transformers will be utilized to step up the Frame 7FA output of 18KV to 115KV and the Frame 7EA output of 13.8KV to 115KV.

The Frame 7EA machine is currently configured for natural gas fuel only. However during the construction of the plant, the gas turbine will be reconfigured for dual fuel operation. The Frame 7FA is already configured for dual fuel operation.

The plant will be configured for operation on both natural gas and #2 diesel fuel. The Owner will provide natural gas supply through a pipeline to the plant boundary at a pressure of 16 bar (235 psig). Contractor will provide compressors to raise the gas pressure to meet the requirements of the gas turbines.

The Owner will provide clean diesel fuel to the plant boundary which meets the GE liquid fuel specifications. The Contractor will provide storage tanks, filtration and handling equipment to meet the requirements of the gas turbines.

The Owner will provide a sufficient supply of industrial grade water to the plant boundary. Contractor will provide a water treatment facility in the plant to insure that the water injected into the gas turbines meets the GE water specifications.

The Owner will supply all concrete and re-bar for the construction of the plant. Contractor will provide all civil designs and labor required to construct the plant.

The Contractor will provide all plant design engineering required for the civil work, mechanical, electrical and plant control.

Contractor will provide technicians to provide startup and commissioning of the plant.

Section 2.0 Equipment List - Detailed Division of Responsibility between Owner and Contractor:

Note: The Owner has purchased one (1) gas fueled GE Frame 7EA GTG with associated facilities and one (1) dual fueled Frame 7FA GTG for this project. These units and associated equipment are identified in the Table Below:

Material/Responsibility	Qty	Description
OWNER Provide /CONTRACTOR Install	1	<u>GE Model 7121 Frame 7EA (60Hz) Gas Turbine Generator</u> with Associated Equipment as Coming From Southhaven Including:
		Electrical
	1	PEEC Building
	1	13.8 KV 5000 amp Gas Turbine Generator Breaker NEMA 3R
	1	4160V 800 HP Starting Motor
	1	480 V GTG MCC
		Mechanical
	1	L.O. Cooler w/cooling water fin-fans (3-50hp) & water pumps (2- 75Hp)
	1	Fuel Gas Check Meter
	1	Fuel Gas Module/Purge Air
	1	Fuel Gas Heater
	1	Fuel Gas Filter/Coalescer
	1	Demin Water Inject Pump 100 hp
	1	Demin Water Filters
	1	Duplex Liquid Fuel Pump Inject Skid w/filters and meter
	1	Fogging Pump Skid
	1	Inlet Air Fogging System
OWNER Provide /CONTRACTOR Install	1	<u>Dual Fueled GE Model Frame 7FA (60Hz) DLN Gas Turbine Generator</u> including Water Injection for NOX for liquid fuel with Associated Equipment – See Details in Appendix
	1 Lot	Hydrogen Bottles
	1 Lot	CO2 Bottles
	1	Inlet Air Filter Assembly with Evaporative Cooler
	1	Fuel Gas Conditioning scrubber, separator-filter
	1	Duplex Liquid Fuel Pump Injection Skid with Filters and Meter
	1	L.O. Cooler w/ Fin Fan Cooling
	1	Lubricating and Hydraulic System w/pumps, filters and coolers
	1	Exhaust System Diffuser, expansion joint – no stack
	1	Fire Protection System
	1	Water Wash Cleaning System
	1	Generator Start with load commutated inverter and isolation transformer
	1	Hydrogen Cooled Generator including Generator Gas Coolers, LO Systems
	1	Generator Excitation Systems, Static Components, Current & Voltage Transformers
	1	PEEC Modular Building with:
	1	-Turbine Control Panels
		- Local Operator Station
	1	-Generator Protection Panel
	1 set	- 24 VDC Batteries and Chargers
	1 set	-125 VDC Batteries and Chargers
	1	GTG Auxiliary Cooling System with fin-fans
	1 set	Cooling Water Circulation Pumps
	1 set	Fuel Gas Filters

Material/Responsibility	Qty	Description
OWNER Will Provide	1 Lot	Project Site free and clear of rock and ground water
	1 Lot	Natural Gas Fuel Tie in Point at Plant Boundary with measurement
	1 Lot	115 KV Utility connection immediately adjacent to Site Boundary
	1 Lot	#2 Diesel Fuel Supply Tie in Point at Plant Boundary with measurement
	1 Lot	Firewater supply (w/pumps) and feeder to site boundary
	1 Lot	Fuel Gas, DFO and Water for commissioning and start up
	1 Lot	Waste Water Disposal
	1 Lot	Eight (8) Telephone Circuits to Project Site
	1 Lot	Permits for Environmental, Transportation, Building, Construction, Operations, etc.
	1 Lot	Construction & Commissioning Water and 480V three phase power
	1 Lot	Concrete and Rebar for foundations
	1 Lot	Access Roads to site
	1 Lot	Import Duties and Taxes
	1 Lot	Construction lay down area (3 acres) within or adjacent to project site
	1 Lot	Transportation of Owner Equipment from the US to Site
	1 Lot	Removal of all unused building foundations, underground piping, etc. on the proposed project site
		Site will be designed by ProEnergy to be expandable to add an additional Frame 7FA and to add combined cycle to the 7EA and 7FA's in the future
Contractor – ProEnergy EPC Responsibility		
		Civil / Structural
	1 Lot	Site Preparation, Rough Grading, Excavation, and final grading
	1 Lot	Plant Concrete Foundations (Owner to provide concrete and rebar)
	1 Lot	Plant Paving, Gravel and Pads for Turbine and Generator
	1 Lot	Basic Architectural Treatment and landscaping
		Buildings
	1	Climitized Control Room and Office Building with attached Maintenance / Warehouse Building
	1	Fuel Gas Compressor Shed
	1	Water Treatment – pumps Building
	1	Fuel Treatment, pumps Shed and MCC Room
	1	Guard House
		Mechanical
	1	Frame 7FA 55 Ft. tall Exhaust Stack with Silencing
	1	Lube Oil Cooling water System for GTG including piping, pumps, etc.
	2 ea.	100% Capacity Fuel Gas Compressors for 7FA
	2 ea.	100% Capacity Fuel Gas Compressors for 7EA
	1	Raw water Storage Tank 500,000 gallon
	1	100% Demin Water Forwarding Pumps
	1	Demineralized Water Storage Tank, 500,000 Gallons
	2	100% Demineralized Water Forwarding Pumps for Turbine Wash
	2	Demineralized Water Injection Pumps NOx / Fogging
	1	Oily Water Separator
	1	Waste Oil Tank, 10,000 Gallon.
	1	Waste Oil Delivery Pump
	1	Waste Water Tank, 10,000 Gallon
	1	Waste Water Delivery Pump
	1	Instrument Air Package with two compressors, receiver, filters and dryer
	1	Raw Liquid fuel storage tank, (500,000 gallons)
	2	Liquid Fuel Transfer Pumps Fr 7EA – Fr 7FA
	1	Treated Fuel Storage Tank (1,000,000 gallons)
	2	Treated Liquid Fuel Forwarding Pumps Fr. 7EA – Fr. 7FA
	2	Natural Gas ESD Valves
	2	Natural Gas Scrubbers

Material/Responsibility	Qty	Description
Contractor (cont'd)		
Mechanical	2	Fuel Gas Regulator Skids
	1	Fr. 7FA Exhaust Stack Fuel Gas Heater
Electrical	1	18KV/115KV 250MVA GSU 7FA Transformer
	1	13.8KV/115KV 100MVA GSU 7EA Transformer
	3	115KV SF6 Breakers
	4	115KV Disconnect Switches
	1	Dead End Tower
	1 Lot	115KV Bus, Insulators, etc.
	1	18 KV 8000 amp GTG Generator Breaker NEMA 3R Frame 7FA
	1	18 KV Iso-Phase Buss – Fr 7FA
	1	4160V / 480 V 1500 KVA Station Service Transformer
	1	4160V / 480 V 1000 KVA Station Service Transformer
	1	18 KV / 4160 V 10,000 KVA Station Service Transformer
	1	4160 V Distribution Switchgear
	2	4.160 V MCC's Gas Compressors
	2	480 V BOP MCC
	2	480 V Distribution Board
	1 Lot	BOP 480 V / 120 V Transformers, Lights, Panels etc.
	1	UPS System for Control Room
	8	Welding Receptacles
	1	Plant Grounding Grid
	1 Lot	Lightning Protection
	1 Lot	Cathodic Protection for underground steel piping
	1 Lot	Area Lighting
I&C	1 Lot	Plant Fiber Optic Communications System to Interconnect all DCS Equipment
	1 Lot	Plant Instrumentation
	1	Plant DCS System
Construction	1 Lot	Construction Tools, Rental Equipment & Rental Cranes
	1 Lot	Temporary Power Distribution
	1 Lot	Local Subcontractor(s) Electrical & Mechanical Craft Labor
	1 Lot	Transportation of all Contractor supplied BOP equipment
	1 Lot	Construction Offices, Storage, Temporary Facilities and Utilities
	1 Lot	Lubricants, Chemicals, Filters, etc. for Plant Commissioning
	1 Lot	Balance of Plant Start up and Commissioning Spare Parts
Engineering	1 Lot	Conceptual and Detail Design Engineering (Total Plant)
Project Management	1 Lot	Project Management with Scheduling, QA/QC, safety, and training
	1 Lot	Plant Start-up, Commissioning and Testing
	1 Lot	Overall Plant Training

Section 3.0 Design Basis and Interconnect Points

3.1 Design Basis

Design Conditions

Site Elevation	Simple Cycle 1 Fr 7FA and 1 Fr 7EA (fogged)
Air Temperature, High	100 ft. (30.5 m)
Air Temperature, Low	95°F (35°C)
Design Temperature	60°F (15°C)
Design Relative Humidity	85°F (29.4°C)
Wind Speed	75%
Gas Turbine Power	80 mph (53 km/hr)
GTG Fuel Consumption Rate	250 MW (ISO)
GTG Liquid Fuel Consumption Rate	61.07 MCFD Natural Gas
High Voltage Interconnect	321 gpm
Demin Water Storage	115 KV
Instrument Air System	500,000 Gallon SS Tank by Contractor
Waste Oil Storage	185 SCFM by Contractor
Waste Water Storage	10,000 Gallons by Contractor
Raw Water Storage	10,000 Gallons by Contractor
Raw DFO Storage	500,000 Gallon CS Tank by Contractor
Treated Fuel Storage	500,000 Gallon CS Tank by Contractor
	1,000,000 Gallon CS Tank by Contractor

3.2 Interconnect Points

Natural Gas at min. 235 psig	Owner to provide interconnection point to the Plant Battery Limits.
Liquid Fuel	Owner to provide pipeline and measurement at Plant Battery limits
Plant Waste Water	Plant Battery Limits.
Plant Waste Oil	Plant Waste Oil Tank.
115 KV	Dead End Tower at site boundary
Telephone	Plant Battery Limits.
Raw Water Supply	Plant Battery Limits.
Sanitary Sewer	Plant Septic System
Raw/Firewater Supply	Plant Battery Limits by Owner

Section 4: Plant Performance

Puerto Ordaz **B**
Simple Cycle
 Site Elevation 100 Feet
 Design Temperature 85 F
 Relative Humidity 75%
 ID GTPRO

	201		253		Average	
	(1) 7FA		(1) 7EA Fogging		Total	
	Gas Fuel	Liquid Fuel	Gas Fuel	Liquid Fuel	Gas Fuel	Liquid Fuel
Gross Power KW	161081	165707	78596	80465	239677	246172
Net Power KW	158521	163145	77423	79063	235944	242208
Aux & Losses KW	2559.9	2562	1173.5	1401.5	3733.4	3963.5
LHV Gross Heat Rate (BTU/kWh)	9516	9942	10612	11089	10064	10515.5
LHV Net Heat Rate (BTU/kWh)	9670	10098	10772	11286	10221	10692
LHV Gross Electric Eff %	35.86	34.32	32.16	30.77	34.01	32.55
LHV Net Electric Eff %	35.29	33.79	31.68	30.24	33.485	32.02
LHV Fuel (kBTU/h)	1532838	1647385	834030	892304	2366868	2539689
HHV Fuel (kBTU/h)	1697016	1754687	923361	950424	2620377	2705111
Fuel Gas (KPPH)	77.03	0	41.92	0	118.95	0
Fuel Gas (MMSCFD)	39.55	0.00	21.52	0.00	61.07	0.00
Liquid Fuel (KPPH)	0	90.04	0	48.77	0	138.81
Liquid Fuel (GPM)	0	208.17	0.00	112.76	0.00	320.93
Water for Nox (KPPH)	0	72.03	0	39.01	0	111.04
Water for Nox (GPM)	0.00	143.94	0.00	77.96	0.00	221.90
Evap Cooling / Fogging (KPPH)	5.25	5.25	3.47	3.47	8.71	8.71
Evap Cooling / Fogging (GPM)	10.5	10.5	6.9	6.9	17.4	17.4

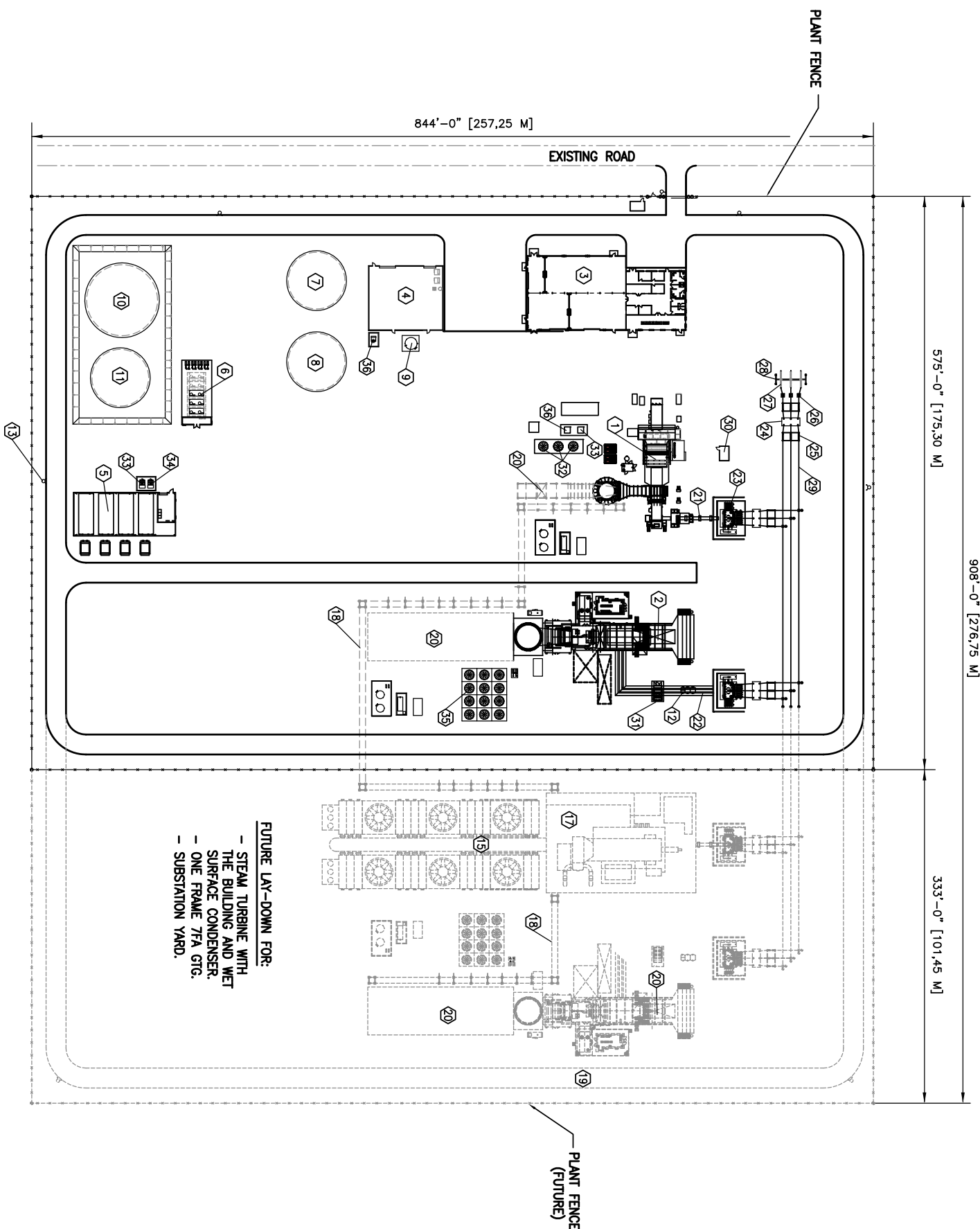
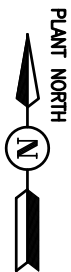
	GPM	GPD (24)	3 Day	5 Day
RAW Water Total	306	441134	1323402	2205670
Demin Water Total	239	344636	1033908	1723179
Liquid Fuel Total	321	462136	1386409	2310682

	7FA	7EA	Total
Fuel Gas Total (MMSCFD)	39.55	21.52	61.07

Section 5: Plant Drawings

Plot Plan	1002-10-001 Sh 1
Process Flow Diagram	1002-50-001 Sh 1
Process Flow Diagram	1002-50-001 Sh 2
Process Flow Diagram	1002-50-001 Sh 3
One Line Diagram	1002-60-001 Sh 1
One Line Diagram	1002-60-001 Sh 2

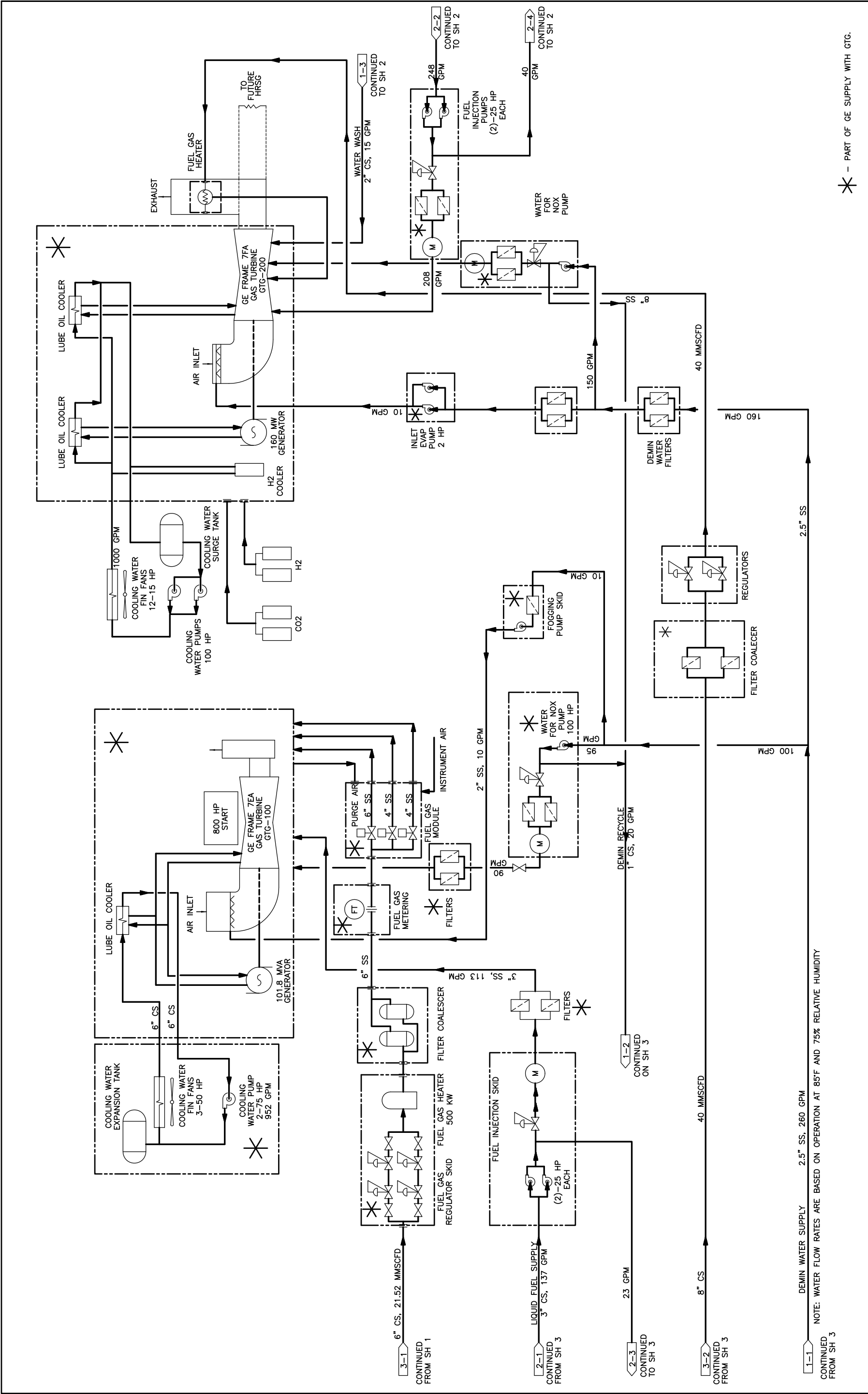




- LEGEND:**
- ① G.E. FRAME 7EA GAS TURBINE GENERATOR.
 - ② G.E. FRAME 7FA GAS TURBINE GENERATOR.
 - ③ CONTROL/OFFICES/WAREHOUSE BUILDING.
 - ④ WATER TREATMENT BUILDING.
 - ⑤ GAS COMPRESSORS WITH SHED, FIN FANS, AND MCC ROOM.
 - ⑥ CENTRIFUGE PACKAGE.
 - ⑦ RAW WATER TANK (500,000 GALS.).
 - ⑧ DEMIN WATER TANKS (500,000 GALS.).
 - ⑨ R.O. WATER TANK.
 - ⑩ TREATED FUEL TANK (1,000,000 GALS.).
 - ⑪ RAW DIESEL FUEL TANK (500,000 GALS.).
 - ⑫ AUXILIARY TRANSFORMERS (10 MVA FOR FRAME 7FA).
 - ⑬ LIGHTING POLES.
 - ⑭ ROAD.
 - ⑮ WET SURFACE CONDENSER (OPTION).
 - ⑯ G.E. FRAME 7FA (OPTION).
 - ⑰ STEAM TURBINE GENERATOR WITH BUILDING (OPTION)
 - ⑱ PIPE RACKS (OPTION).
 - ⑲ ROAD (OPTION).
 - ⑳ HRSG. (OPTION).
 - ㉑ OVERHEAD CABLE TRAY.
 - ㉒ ISO PHASE BUS.
 - ㉓ STEP-UP TRANSFORMER.
 - ㉔ SF6 BREAKER.
 - ㉕ DISCONNECT SWITCH.
 - ㉖ CURRENT TRANSFORMER (TYPE CRT).
 - ㉗ LIGHTNING ARRESTER.
 - ㉘ DEAD END TOWER.
 - ㉙ BUS SUPPORT.
 - ㉚ SUBSTATION HOUSE.
 - ㉛ GENERATOR BREAKER FOR 7FA.
 - ㉜ L.O. FIN FAN COOLERS.
 - ㉝ AUXILIARY TRANSFORMER FOR FRAME 7EA (4160 V).
 - ㉞ AUXILIARY TRANSFORMER FOR FRAME 7FA (4160 V).
 - ㉟ L.O. FIN FAN COOLERS FOR FRAME 7FA.
 - ㊱ AUXILIARY TRANSFORMER (480 V).

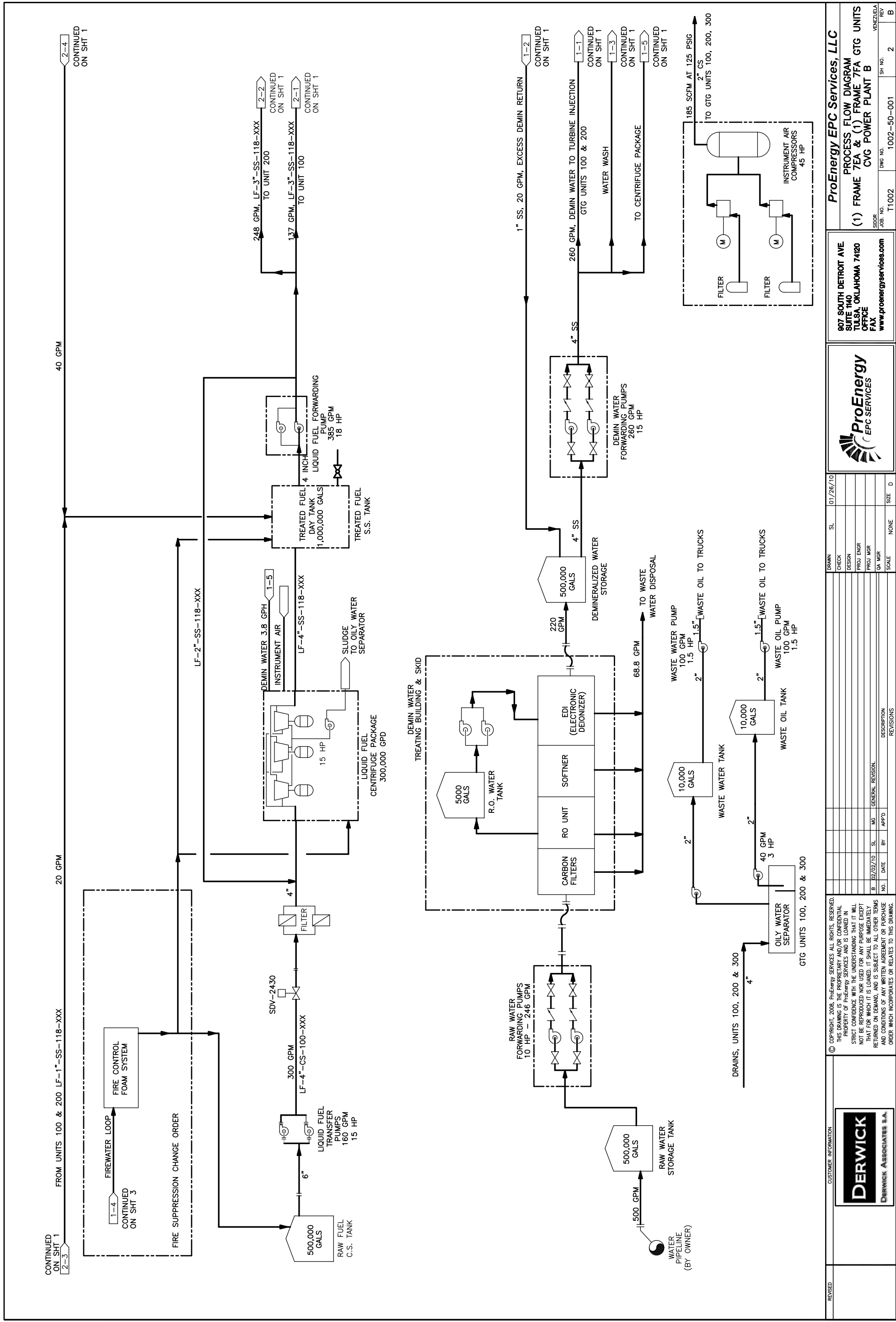
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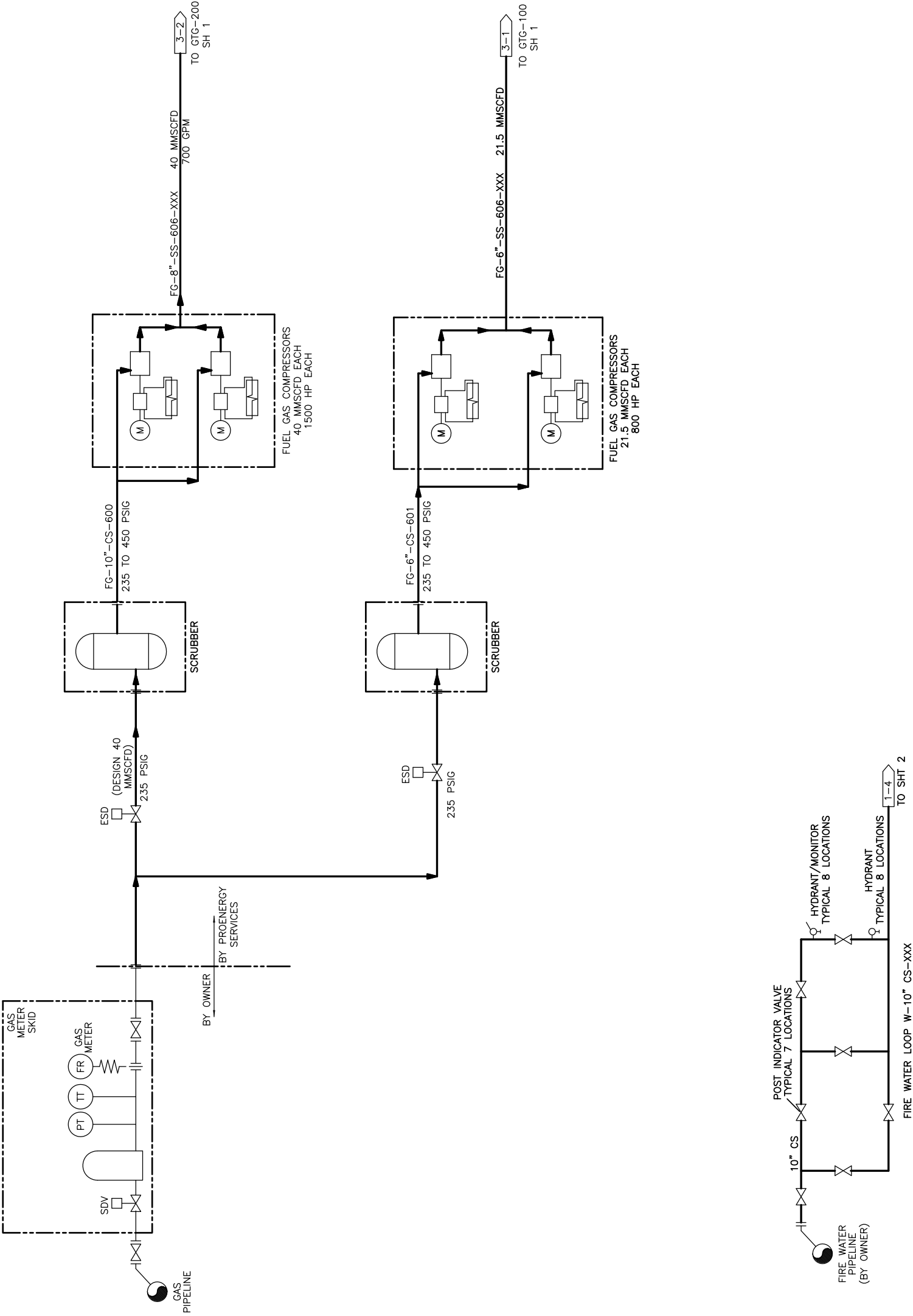
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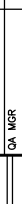


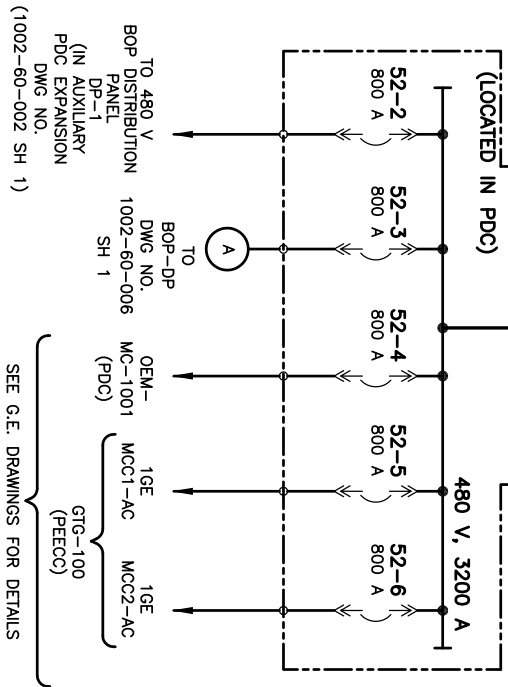
✱ - PART OF GE SUPPLY WITH GTG.


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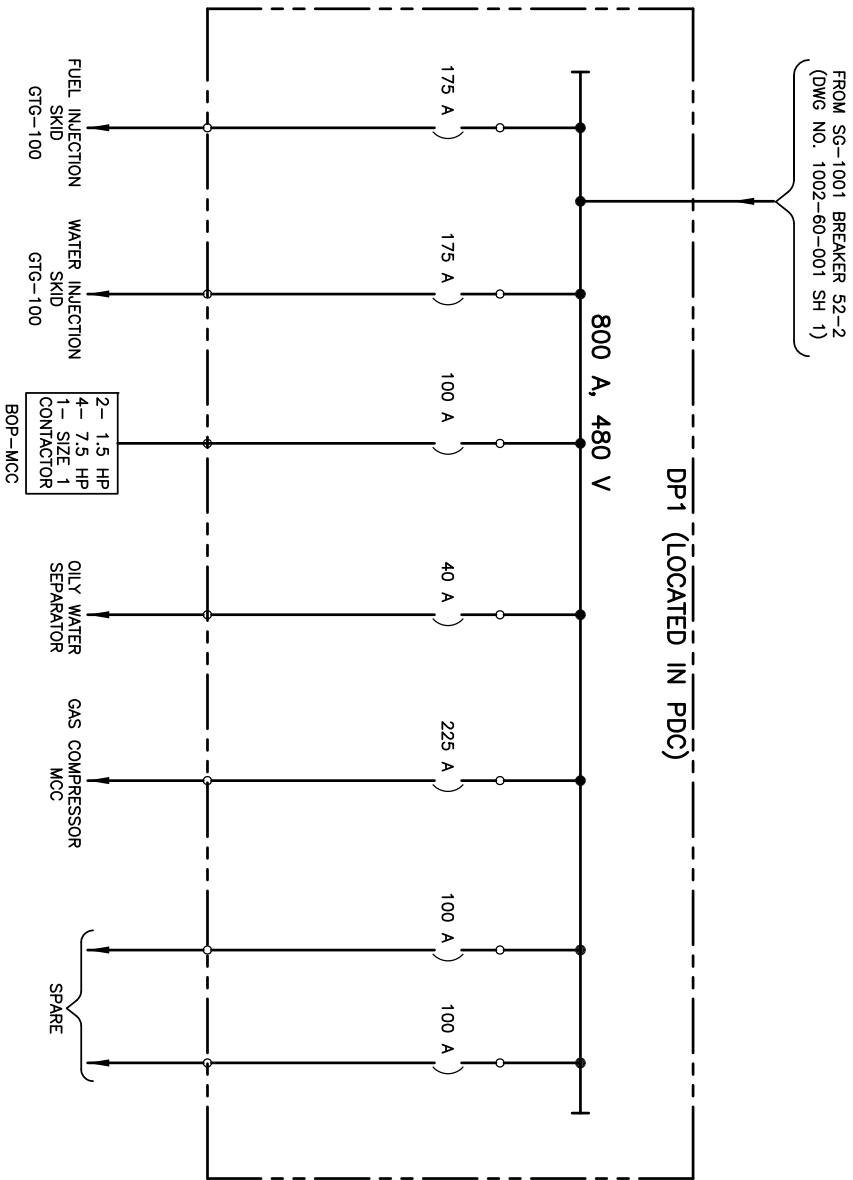




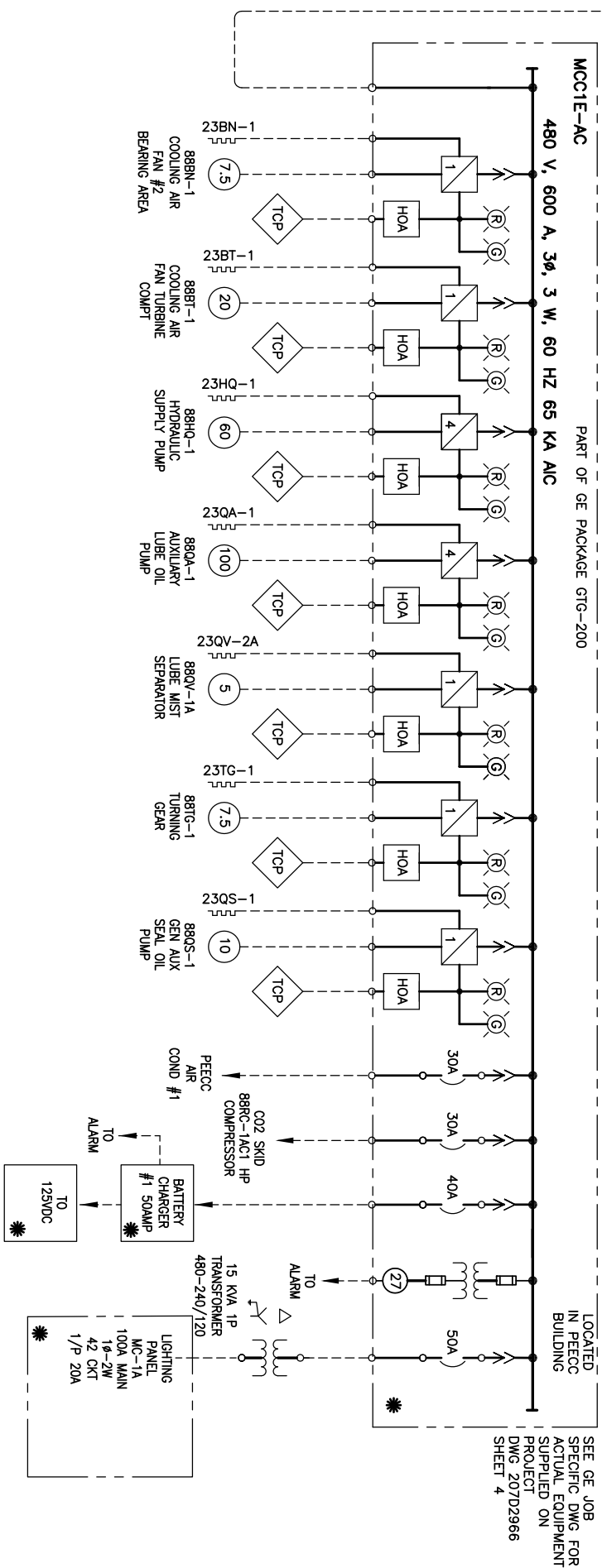
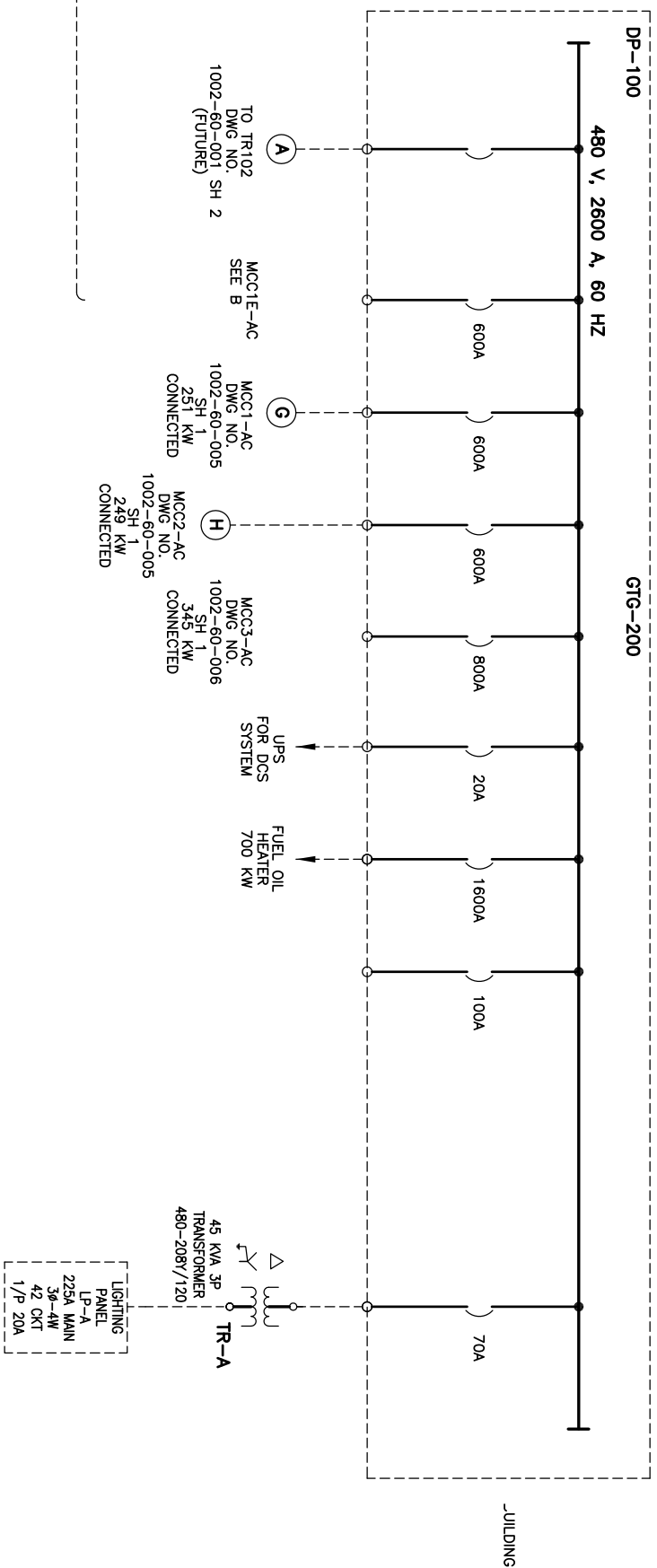
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








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<div><div>ONE LINE DIAGRAM (1) FRAME 7EA & (1) FRAME 7FA C/VG POWER PLANT B</div><div>VENZUELA</div></div>			
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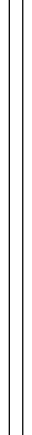


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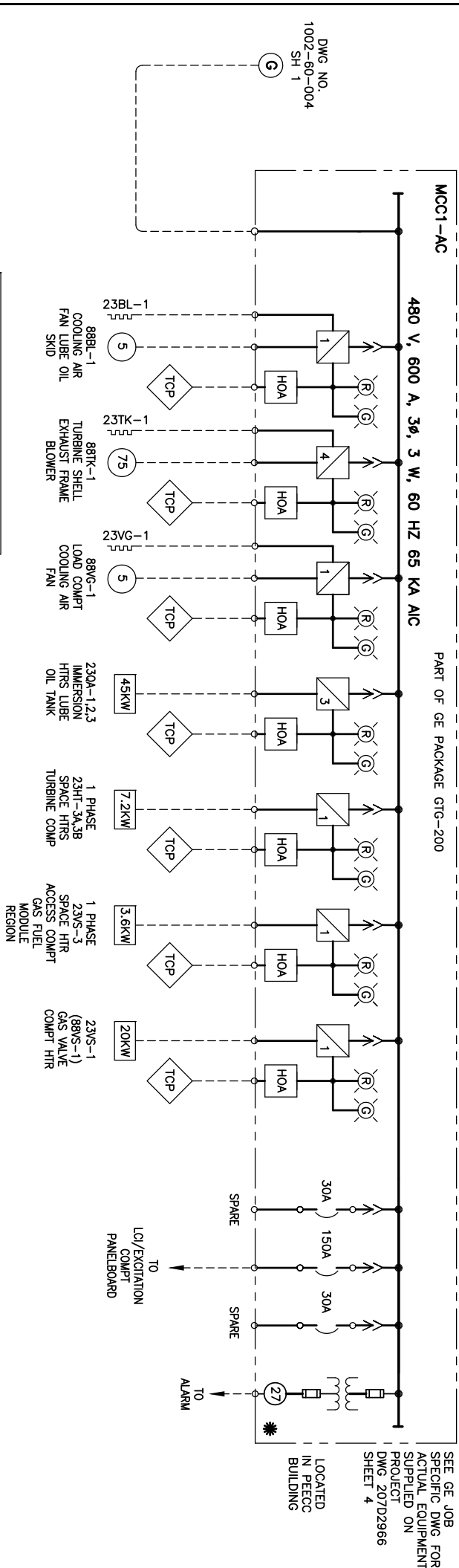
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|---|--|
|  | - COMBINATION STARTER (BREAKER WITH MOTOR OVERLOADS)
- STARTER SIZE |
|  | - OVERLOAD RELAY 50 TIME 51 INST TRIP |
|  | - MOTOR HORSEPOWER (HP) |
|  | - INDICATING LIGHT COLOR |
|  | - TURBINE CONTROL PANEL |
|  | - MOTOR SPACE HEATER |

INCLUDED IN GE PACKAGE 

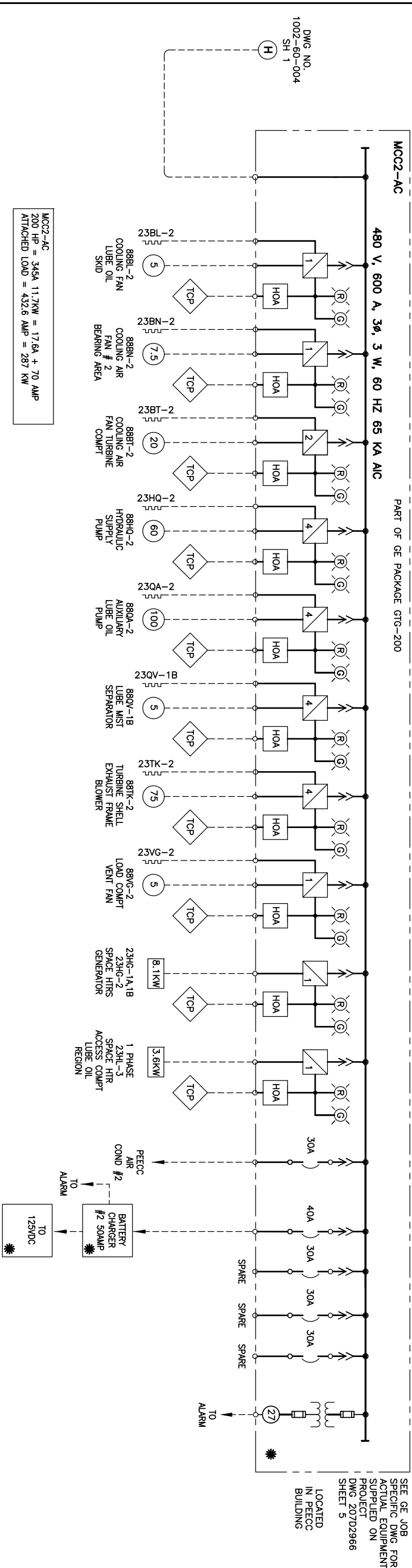
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- LEGEND:**
- COMBINATION STARTER (BREAKER WITH/OUT OVERLOADS)
 - OVERLOAD RELAY 50 TIME 51 INST TRIP
 - BREAKER DRAW OUT TYPE
 - HAND-OFF-AUTO SWITCH
 - MOTOR
 - HORSEPOWER (HP)
 - INDICATING LIGHT
 - TURBINE CONTROL PANEL
 - MOTOR SPACE
 - HEATER
 - BREAKER E.O - BREAKER ELECTRICALLY OPERATED
 - BREAKER M.O - BREAKER MANUALLY OPERATED
 - BREAKER D.O - BREAKER DRAW OUT

MCC1-AC
85 HP = 106A 56KW = 84 + 150 AMP
ATTACHED LOAD = 340A = 226 KW

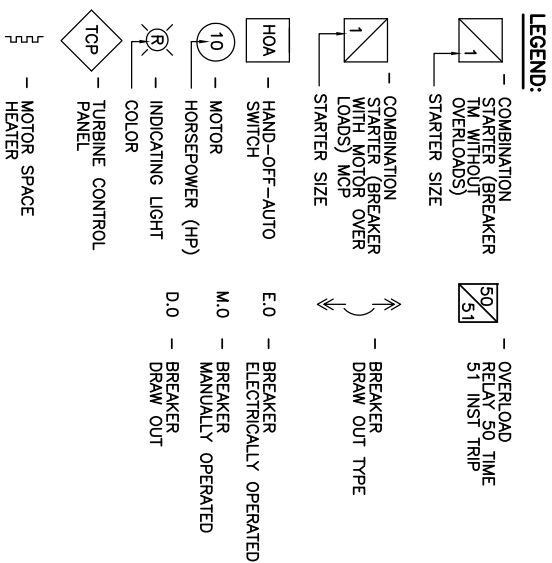
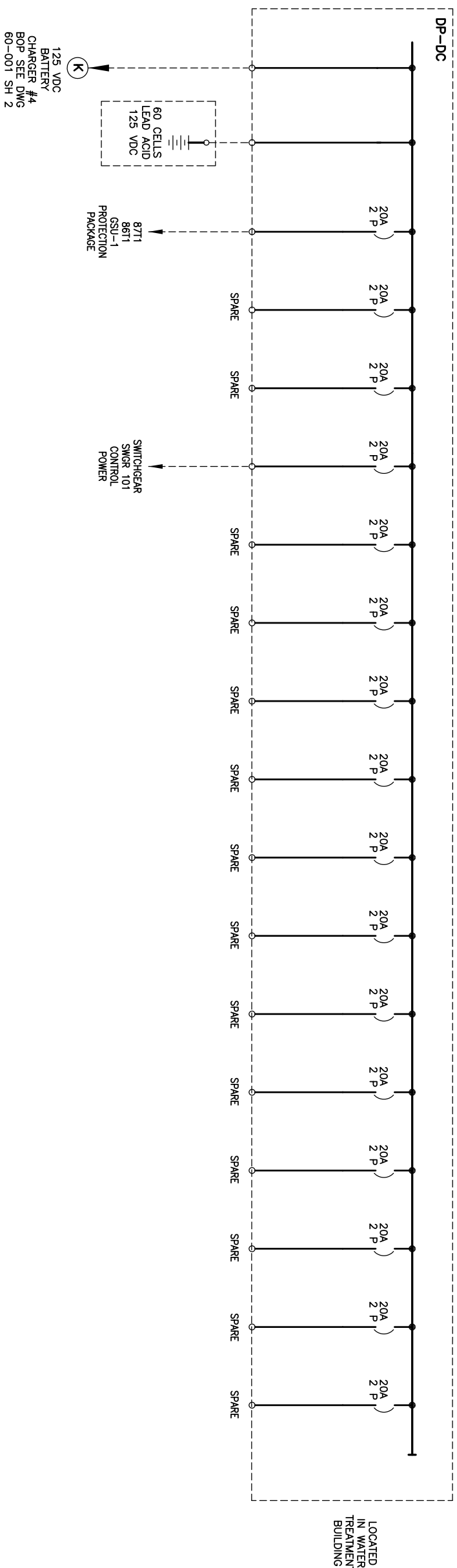


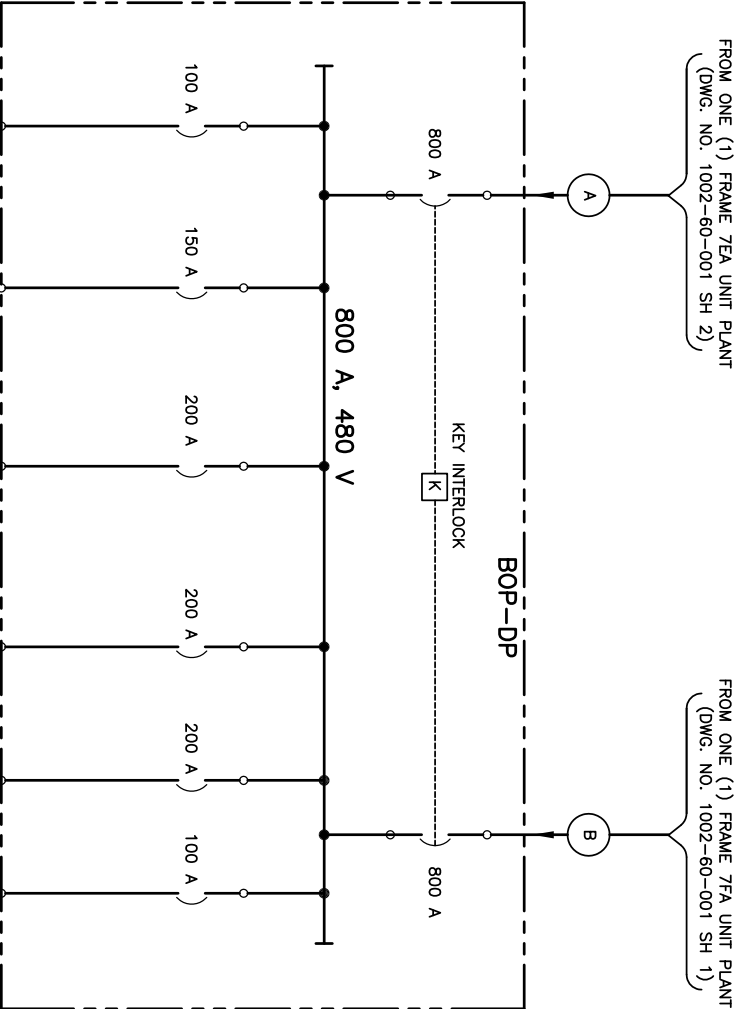
MCC2-AC
200 HP = 345A 111.7KW = 17.6A + 70 AMP
ATTACHED LOAD = 432.6 AMP = 287 KW





INCLUDED IN GE PACKAGE

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		NO.		DATE	
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		DESCRIPTION		REVISIONS	
		SCALE		NONE	
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		DRAWN		SL	
		CHECK		01/24/03	
		DESIGN			
		PROJ ENGR			
		PROJ MGR			
		QA MGR			
		ONE LINE DIAGRAM - LV DISTRIBUTION			
		(1) FRAME 7EA & (1) FRAME 7FA GTG UNITS			
		CVG POWER PLANT B			
		JOB NO.		T1002	
		DWG NO.		1002-60-005	
		SH NO.		1	
		REV		A	

[illegible]



CUSTOMER INFORMATION					
REVISED					
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NO.	DATE	BY	APP'D	DESCRIPTION	REVISIONS
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				QA MGR	
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<div style="text-align: center;"></div>					
907 SOUTH DETROIT AVE. SUITE 1400 TULSA & (1) FRAME 7FA GTG UNITS OFFICE CVC POWER PLANT B FAX www.proenergy.com					
ProEnergy EPC Services, LLC					
ONE LINE DIAGRAM – 480 V BOB–DP					
(1) FRAME 7EA & (1) FRAME 7FA GTG UNITS					
CVC POWER PLANT B					
SINOR	DWG NO.	SH NO.	R	VENDOR/A	A
T1002	1002-60-009	1			

Section 6.0 Schedule

CVG Steel mill
T1001 Timeline for Plant "B"
1-Frame 7FA and 1-Frame 7EA

