

Change Order Request

1 ea. 750KW Blackstart Generator

Presented To:

Electricidad de Caracas
Guarenas Power Plant

By

DERWICK

DERWICK ASSOCIATES CORP.



Proposal No. T-1009-F

July 8, 2010

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Guarenas**

1.0 Introduction

ProEnergy EPC Services (“PES”) is responding to Guarenas’ recent request to **add “Black Start”** capability to the Turnkey EPC Project consisting of the following major equipment:

- 1 ea. 750 KW Diesel Engine Black Start Generator
- 1 ea 480 volt Distribution Panel with Synchronizer
- 1 ea 480 volt Main Generator Breaker
- 1 ea Prefabricated Metal Shed

The following sections of this TSD provide more detail on the **Black Start scope** portion of this proposal.

Note: The Owner has purchased two (2) dual fueled GE LM 6000 PC Sprint Gas Turbine Generator package with associated facilities and two (2) dual fueled GE LM 2500+ Gas Turbine Generator packages for this project. These units and associated equipment are presently being installed:

The purpose for this Document is to add Black Start Capability to the project.

2.0 Black Start Generator

- 2.1 Contractor will supply one (1) Diesel Fueled 750KW Black Start Generator equal to that as manufactured by Caterpillar Engines
- 2.2 Mechanical pipe connection to existing diesel fuel supply
- 2.3 Concrete foundation pad for Black Start Generator
- 2.4 Prefabricated Metal Shed for Black Start Generator w/ Electrical Room

2.2 Electrical Connection

- 2.2.1 Contractor will supply one (1) 480v Circuit Breaker for electric power connection to existing DP100.
- 2.2.2 Contractor will supply one (1) Sync System to allow electrical synchronization to existing LM 6000 Auxiliary Breaker.

Contractor will Provide and Install

- | | | |
|---|-------|---|
| Civil, Engineering & Construction: | 1 Lot | Design Engineering and Construction Management of Contracted Labor including Safety, QA/QC, Project Schedule Management, Technical management, start-up, commissioning, systems turnover and performance testing. |
| | 1 Lot | Civil earthwork, leveling, foundations, roadways, plant gravel, asphalt and concretes as mutually agreed. |

Mechanical:

- | | |
|-------|--|
| 1 Lot | Mechanical pipe, valves, and material including installation with contract labor |
|-------|--|

Electrical

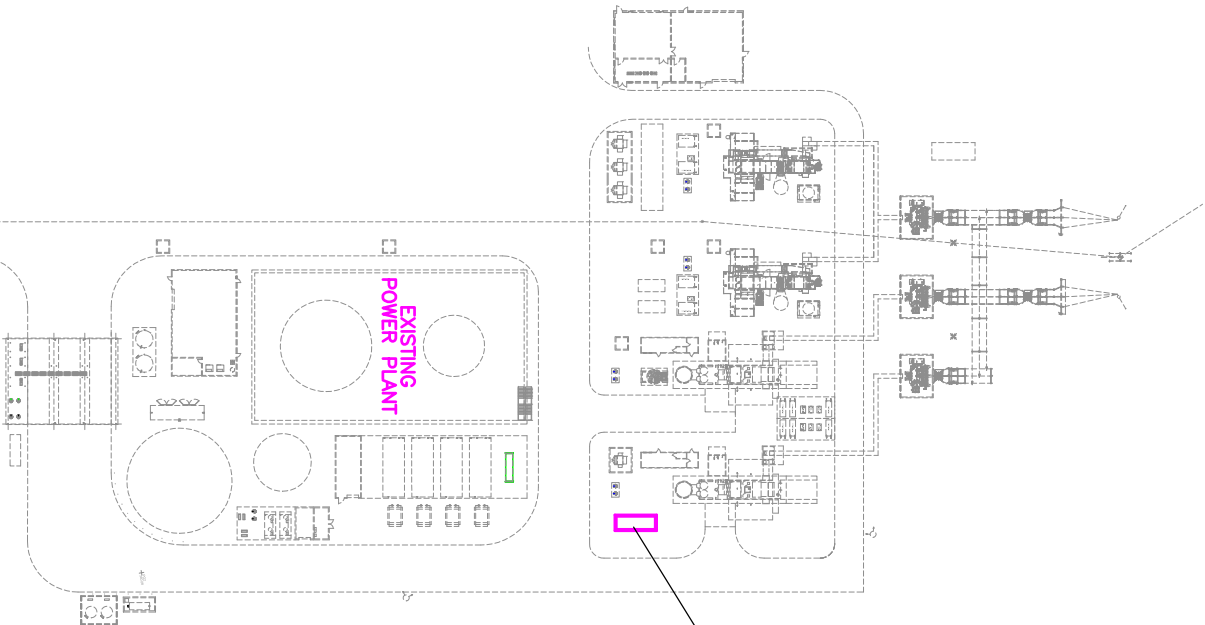
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| 1 Lot | Electrical wire, conduit, and cable including installation with contract labor |
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Start-up and Testing

- | | |
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| 1 Lot | Black Start Generator start-up and testing prior to turn-over. |
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Section 3: Drawings

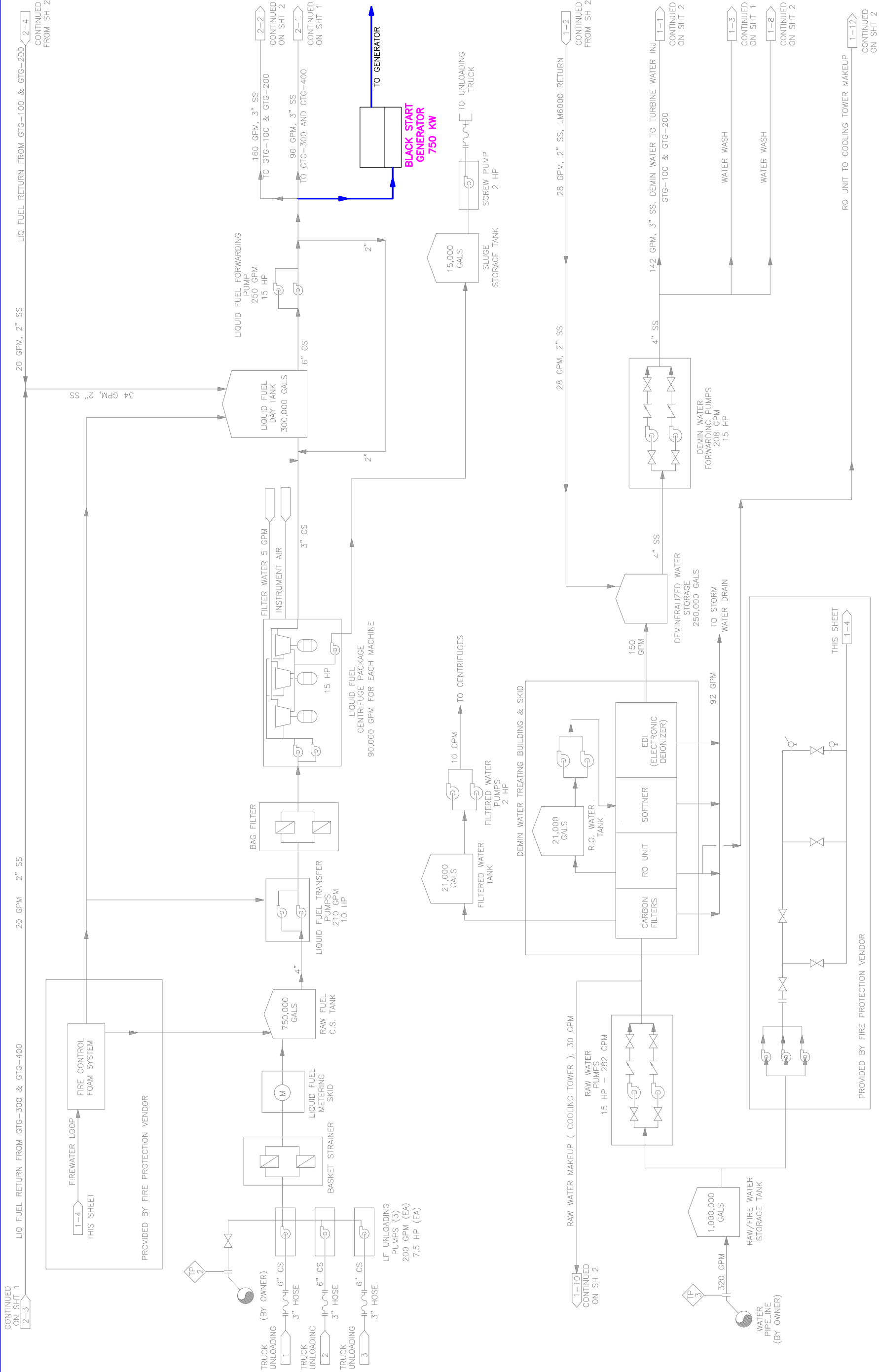
Plot Plan	1009 – F 10 001
Process Flow Diagram	1009 – F 50 001
Electrical One Line	1009 – F 60 001



EXISTING POWER PLANT

GRAPHIC SCALE

CUSTOMER INFORMATION		REVISED	
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 ProEnergy EPC SERVICES			
907 SOUTH DETROIT AVE SUITE 1040 TULSA, OKLAHOMA 74120 OFFICE FAX www.proenergyservices.com			
ProEnergy EPC Services, LLC			
GENERAL ARRANGEMENT PLOT PLAN			
BLACK START ADDITION			
GUAIRENAS I POWER PLANT			
DATE	DWG NO.	SH NO.	REV
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GUAIRENAS	VENDELLA		REV



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