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| EPC | Weekly Report **11 Sept 2010** | |
| Date: 11 Sept 2010 | Project: Sidor Site A, Puerto Ordaz Venezuela | |
| Written By: Patrick Melody | ProEnergy EPC Project Mgr  ProEnergy Site Manager | William Lugo  Patrick Melody |
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**Table of Contents**

**1. Executive Summary**

**1.1 Safety and Regulatory Compliance**

**1.2 Personnel/Staffing**

**1.3 Weekly Accomplishments**

**1.4 Scheduling Conflicts**

**1.5 Site Manager Commentary and Amplifying Remarks**

**2. Engineering and Design**

**2.1 General Arrangement**

**2.2 Site/Civil/ Structural**

**2.3 Mechanical**

**2.4 Electrical**

**2.5 Instruments & Control**

**2.6 O&M Manuals**

**3. Procurement**

**3.1 Purchase Order Requests**

**3.2 Equipment & Material Quotations**

**3.3 Purchase Order**

**4. Contracts**

**4.1 EPC Contract**

**4.2 Construction Subcontracts**

**4.3 Proposal and Quotes**

**5. Construction**

**5.1 Schedule**

**5.2 Equipment Delivery Status (expediting report)**

**5.3 Civil**

**5.3.1 Site Preparation**

**5.3.2 Centerline Foundation**



**5.3.3 GSU Foundation**

**5.3.4 Auxiliary Foundations**

**5.4.1 Centerline Equipment Installation**

**5.4.2 Centerline Piping Installation**

**5.4.3 Auxiliary Piping Installation**

**5.4.4 Underground Piping Installation**

**5.4.5 Above Ground Piping Installation**

**5.4.6 Balance of Plant (BOP) Piping Installation**

**5.5 Electrical**

**5.5.1 Duct Bank Installation**

**5.5.2 Centerline Electrical Installation**

**5.5.3 Auxiliary Electrical Installation**

**5.5.4 Balance of Plant (BOP) Installation**

**5.6 QA/QC**

**5.6.1 Equipment Testing**

**5.6.2 Nonconformity Report**

**5.6.3 Drawing Revisions**

**5.6.4 CWI Reports**

**5.6.5 As-built Drawings**

**6 Start Up & Commissioning**

**6.1 Schedule**

**6.2 Equipment Status**

**6.3 Punch list**

**6.4 Equipment Checkout**

**6.5 Equipment Functional Test**

**6.6 Equipment Turnover**

**6.7 Performance Testing**

**6.8 Emission Testing**

**7 Mobilization**

**7.1 Schedule**

**7.2 Operating Procedure Development**

**7.3 Operation Staff Training**

**7.4 Spare Parts/Inventory Status**



**1. Executive Summary .**

This report provide an overview of the project activities for the week ending 7

* 1. **Safety & Regulatory Compliance** 
     + Develop Job Safety Analysis as required.
     + Inspection of motorized equipment prior to usage.
     + Inspection of subcontractor power tools.
     + Site orientation for new employees
  2. **Personnel/Staffing**

|  |  |  |  |
| --- | --- | --- | --- |
| Lugo, Bill | Project Director | Daniels, Julio | Tool Room (Local) |
| Melody, Patrick | Site Manager | Izquierdo, Weiser | Mat'l. Handler |
| Siros, James | Mech. Supt. | Flores, Herman | Tool Room (Local) |
| Maxey, Daniel | Tech. Advisor | Newan, Miguel | Mat’l Handler |
| Little, John | Material Manager | Leccia, Karina | Admin Assist |
| Frawely, Ted | Electrical | Rojas, Moises | Logistics |
| Blacke, Edward | Safety Manager | Zambrano, Natalia | Electrical Engineer |
| Riley, Jasper | Electrical Supt. | Alvarez, Josbett | Translator |
| Lynch, Patrick | Piping Supt. | Monasterios, O | Safety ( Local) |
| Siros, Melinda | Turn Over | Lugo, Lee | Translator |
| Flower, Kurt | I & C | Jimenez, Selenia | HighVoltage |
| Flower, Caleb | I& C (Apprentice) | Medina, David | High Voltage |
| Doran, Patrick | I & C | Villarrel, Luis | High Voltage |
| Caldwell, Donnie | Dual Fuel | Smoak, Eric | High Voltage |
| Green, Kathy | Dual Fuel | Sprague, Randy | High Voltage |
| Nash, Carlos | Dual Fuel | Pollack, Michael | Mgr. Aero Derivative |
| Smothers, Shelby | Dual Fuel | Montgomery, Mike | QA/QC |
| Welty, Mark | Dual Fuel | Hankins, Thomas | QA/QC |
| Jackson, Steve | Dual Fuel | Boykin, Ken | Start Up Manager |
| Tokarse, Don | Dual Fuel | Bingham, Allen | Start Up |
| MacIntyre, Chuck | Dual Fuel | Graves, Mike | Start Up |
| Sayago, Juan | Dual Fuel | Hicks, Todd | Start Up |

* 1. **Weekly Accomplishments** 
     + GT 100 Cable Pulls and Terminations Ongoing
     + GT 100 Install Gas Piping from Filter Skid to Unit
     + GT 100 Install/Terminate Cable at Auxiliary skid
     + GT 100 & 200 Install Liquid Fuel Booster Pump
     + GT 200 Turbine Generator install piping & accessories
     + GT 200 Pull and terminate cable to TCP 200 from the MTTB
     + GT 200 Exterior Painting Ongoing
     + GT 300 – Install CO2 piping
     + GT 300 - **Dual Fuel Installation complete**
     + GT 300 –GT 300 Exterior Painting on going
     + GT 300 PEECC & PDC Install Air Conditioners
     + GT 300 – Prep for Oil Flush
     + Utility Bldg – Pulling and terminating Cables
     + Utility Bldg – Install battery systems
     + Utility Bldg – Install 45 KV Transformer
     + BOP – Installing pipe to gas compressor
     + BOP – Install Drain piping
     + BOP – Utility Bldg. Install batteries and UPS System
     + BOP – Water Treatment Bldg Install MCC’s
     + BOP – Water Treatment Bldg Install Cable Tray
     + BOP – Install Cooling Water Piping
     + BOP – Gas Compressor Install Cable Trays
     + BOP - Water Treatment – Install air compressor skids and piping
     + BOP – High Voltage Install High/Low End Bus cables
     + BOP – High Voltage Pull Cables / Yard to Control Bldg.
     + BOP – Install Ground Grid @ Power Block
     + BOP – Site grading
     + BOP – Excavate roadways and compact subgrade
     + BOP – Control Building Complete foundation slab
     + BOP – Erect Raw Water Tank
     + BOP – Erect Water Treatment Bldg
     + BOP – Erect Gas Compressor Bldg.
     + BOP – Install cable racks at Gas Compressor Bldg.
     + BOP – Excavate Roadways to Subgrade / Install Sub Base



**1.4– Scheduling Conflicts**

* Schedule has been adversely affected by the late delivery of SWBD 100 15kv Fused disconnect and approximately 60 percent of the cable required for the project. Other activities that could impact the schedule are listed below.
  + ***Gas Compressor Motors Rewind is in processs.***
  + ***GT 100 TCP interconnecting wire. At panel shop.***
  + ***Water treatment - Water supply may require pretreatment by SIDOR.***
  1. **– Site Managers Commentary and Amplifying Remarks**
* The following components have been sent to Termozulia. Beckwith; Electro Industries volt/amp meter; coupling bolts; purge and vent valves for fuel gas module; and ignition transformer and Control cards. Lead times are critical for replacement of these items.
* ***DCS will be shipped 14 Sept 2010***
* Cathodic protection installation for piping was discussed with local contractor. Proceeding on a EPC basis. Design has been received. ***EDG reviewing.***
* The quality of the water supplied by SIDOR will not meet the criteria that PES/EDG presented to SIDOR earlier. Additional pre treatment equipment will be needed prior to entering our system. SIDOR’s water treatment consultant will forward a recommendation on the equipment and processes required to bring the SIDOR supplied water into usable parameters. SIDOR was advised that the cost associated with pretreatment of the water was not in PES scope of work. A Change Order will be opened to track cost associated with this issue. SIDOR’s consultant has meet with EDG t to review and substantiate the consultants proposal. ***EDG’s design recommendation has been received. A Change Order from Derwick/SIDORis needed to proceed with this out of scope work.***
* Derwick has verbally indicated that the Fuel storage tank, fuel unloading bldg. and related utilities will be removed form our scope of work. If a written directive is not received we will proceed with installation of these elements***. An email has been received from Derwick deleting certain elements form the Scope of Work.***
* Gas compressor motors have been removed and sent to a local shop to be rewound. One additional motor is being procured as a spare. ***The first two motors are ready for acceptance testing at the local shop on 14 Sept 2010.***

**2 Engineering and Design**

**2.1 – General Arrangement-**

**2.2 – Site /Civil /Structural**

**2.3 – Mechanical**

**2.4 – Electrical**

* + - ***DCS Design is not complete.***

**2.5 – Instrumentation**

* **Ongoing**

**2.6 – O&M Manuals –**

* **In process**

**3 Procurement**

**3.1 – Purchase Order Requests**

Mobilization/Prepayment to vendors and subcontractors is adversely affecting our ability to maintain the schedule due to the inability to fund these invoices.

**3.2– Equipment & Material Quotations**

**3.3 - Purchase Order –**

* Purchase Orders are being prepared for the following.

Pavement

Grout

Water

1. **Contracts**

**4.1 – EPC Contract –**

**4.2 – Construction Subcontracts –**

**4.3 – Proposal & Quotes**

**5 Construction**

**5.1 Schedule**

* CPM schedule is being revised per SIDORS request to accelerate.

**5.2 Equipment Delivery**

* Air Shipment of cable was received on 11 September 2010.
* Thor Liberty is expect to arrive12 September 2010
* Air shipment of switch yard materials expected to arrive 13 September 2010

**5.3 Mechanical**

* GT 100 – GT Erection is complete
* GT 200 – GT Erection is complete.
* GT 300 – GT Erection is complete

**5.4 Electrical**

* Installation of conduit and cable tray ongoing
* Cleaning and proving of conduit for the duct bank
* Wire Pulls and terminations ongoing.

**5.5 QA/QC**

Inspections of concrete placements, excavation, welding, and backfill activities is ongoing.

**6 Startup & Commissioning**

* Start Up Manager and three staf arrived on site this week.

**7 Photos**



Gas Compressor MCC/Cable Tray Installation



Demin Water Tank



**Water Treatment Bldg.**



**7EA Cooling Water Piping**