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| EPC | Weekly Report **16 October 2010** | |
| Date: 16 October 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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**1. Executive Summary .**

This report provides an overview of the project activities for the week ending 16 October 2010.

* 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
     + Implementation of Lock Out / Tag Out Initiated
  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 |
| Montgomery, Mike | QA/QC | Leccia, Karina | Admin Assist |
| Frawely, Ted | Electrical | Rojas, Moises | Logistics |
| McCormick, William | 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 | Thurman, Fred | High Voltage |
| Hazelrigg, Brett | Field Service | Smoak, Eric | High Voltage |
| Boykin, Ken | Start Up Manager | Sprague, Randy | High Voltage |
| Bingham, Allen | Start Up | Villarreal, Luis | High Voltage |
| Graves, Mike | Start Up | Chacara, Alex | High Voltage |
| Hicks, Todd | Start Up | Young, Craig | High Voltage |
| Flores, Mark | Start Up | Galvez, Arturo | High Voltage |
| Peryea, Harold | Start Up | Sliva, Rafel | High Voltage |
| Del Garza, Adam | Start Up | Andrade, Isabel | High Voltage |
|  |  | Barroso, Svetlana | Electrical Engineer |

* 1. **Weekly Accomplishments** 
     + GT 100 - Cable Installation **Complete**
     + GT 100 - Calibrate Transmitters & Tubing Installations
     + GT 100 – Turbine Lube Oil Flush Ongoing
     + GT 100 – Install New MCC’s
     + GT 100 – Install Gas Vent Piping
     + GT 200 – Cable Installation **Complete**
     + GT 200 – Install Seal in Generator Lube Oil Pump
     + GT 200 – Point to Point Checks
     + GT 200 - Install Gas Vent Piping
     + GT 300 – Install conduit and cable tray
     + GT 300 – Install cable **50% Complete**
     + GT 300 – Clean Filter House **Complete/Inspected/Accepted**
     + GT 300 – Torque Inlet Air Filters **Complete**
     + GT 300 – Align Starting Motor **Complete**
     + GT 300 – Mechanical Punch List Ongoing
     + GT 300 – Install Demin Piping to Water Wash Skid
     + GT 300 – Align AC & DC Lube Oil Pumps
     + GT 300 – Align Torque Converter
     + GT 300 – Torque Inlet Filter House
     + GT 300 – Install River Hawk Coupling Bolts
     + GT 300 – Install Liquid Fuel Piping
     + GT 300 – Install Instrument Air Piping
     + GT 300 – Valve Calibrations
     + GT 300 – Paint Exhaust Stack
     + GT 300 – Cooling Water Fin Fan – Verify Blade Pitch
     + GT 300 – Install Conduit for Exterior Lighting
     + BOP – Erect Control / Maintenance Bldg.
     + BOP – Install Cables to all Auxiliary Transformers **Complete**
     + BOP - Utility Bldg. Pulling and Terminating Cables
     + BOP – Utility Bldg. Install Water Injection Piping
     + BOP – Gas Compressor Calibrate Instruments
     + BOP – Install Cooling Water Piping
     + BOP – Install Gas Line Supports
     + BOP – Water Treatment Bldg. Install Piping
     + BOP – Gas Compressor Cable Terminations Ongoing
     + BOP – Install Deluge System at GSU Transformers
     + BOP – High Voltage – Terminations & Transformer Testing
     + BOP – Install Ground Grid /Lugs on Fence
     + BOP – Site grading/Install Yard Stone
     + BOP - Raw Water Tank Sand Blast/Prime
     + BOP - Walk Down Instrument Air
     + BOP – Water Treatment Calibrate Instruments
     + BOP – Grout Placement for Rotating Equipment
     + BOP – Control Building Install HVAC Duct Installation
     + BOP – Install Cathodic Protection System
     + BOP – Inspecting Water Treat. & Gas Comp. MCC’s for Compliance With Design Doc.



**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. ***Majority of cable required has been received.***
  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 Equipment was received on site 12 October 2010 as scheduled***
* Cathodic protection installation is in progress.
* GT 200 Generator lube oil pump shaft seal has failed. Sedalia is sourcing a replacement from Tuttle. ***Lube oil pump seal has been received and installed.***
* 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 PES system. SIDOR’s water treatment consultant has forwarded 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 to review and substantiate the consultants proposal. EDG’s design recommendation has been received. A Change Order from Derwick/SIDOR is needed to proceed with this out of scope work. SIDOR has requested an analysis of impacts to the water treatment system in the event that SIDOR chooses not to implement the out of scope pretreatment recommendations of their consultant. (i.e. Will the overall life span of the water treatment system be reduced, increase in operational costs, etc.) EDGI has responded to SIDOR’s request for impact; failure to proceed with installation of recommended pretreatment will result in additional maintenance cost and reduced megawatts. ***SIDOR has verbally indicated that an alternative water source may be available prior to start up. Water analysis of new source will be required.***
* 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.
* ***Transformer testing and acceptance is being adversely affected by lack of representation from Corpo Electric to witness testing. Issue is being pursued for resolution.***

**2 Engineering and Design**

**2.1 – General Arrangement-**

**2.2 – Site /Civil /Structural**

**2.3 – Mechanical**

**2.4 – Electrical**

**2.5 – Instrumentation**

* GT 100 & GT 300 Calibrations ongoing

**2.6 – O&M Manuals –**

* **In process**

**3 Procurement**

**3.1 – Purchase Order Requests**

**3.2– Equipment & Material Quotations**

**3.3 - Purchase Order –**

* Purchase Orders are being prepared for the following.

Grout

1. **Contracts**

**4.1 – EPC Contract –**

**4.2 – Construction Subcontracts –**

**4.3 – Proposal & Quotes**

**5 Construction**

**5.1 Schedule**

* CPM schedule is being revised as required

**5.2 Equipment Delivery**

* Air cable delivery arrived from Miami to Valencia on 7 October 2010. Industrial Dart shipment arrived on site 8 October. Air cargo arrived on site 5:00 pm 11 October 2010. Cargo from the Industrial Edge arrived 9:00 am, 12 October 2010. Received Air Cargo shipment 4:00 pm 14 Oct 2010. Air cargo delivery arrived at 6:00 pm 15 October 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
* Wire Pulls and terminations ongoing.
* GT 300 –Cable installation 50 % Complete

**5.5 QA/QC**

* Inspections of painting, Mechanical installations/welding, electrical installation/testing, and backfill activities is ongoing.

**6 Startup & Commissioning**

* Start Up Manager and 6 staff are currently on site.

**7 Photos**



**GT 300 Cable Installation**

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**Water Treatment Bldg.**