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| **CVG SIDOR POWER PROJECT SITE “A”** |
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**DATE: 14 October 2010, Thursday**

**PROJECT #: 410-3202**

**LOCATION: SIDOR Industrial Area, Puerto Ordaz, Venezuela**

**SITE MANAGER: Patrick Melody**

**TEMPERATURE: 88 F**

**RANGE: 85 to 95 F**

**SITE CONDITIONS: Partly Sunny**

**PERSONNEL ON SITE:**

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| --- | --- | --- | --- |
| Lugo, Bill | Project Director | Newan, Miguel | Mat'l. Handler Local |
| Melody, Patrick | Site Manager | Izquierdo, Weiser | Mat'l. Handler Local |
| Siros, James | Mechanical Supt. | Herman, Flores | Tool Room Local |
| Riley, Jasper | Elect. Supt. | Monasterios, O | Safety Local |
| McCormick, William | Safety Manager | Leccia, Karina | Admin. Local |
| Frawely, Ted | Elect. Supt. | Zambrano Natalia | Elect. Eng. Local |
| Lynch, Patrick | Piping Supt. | Alvarez, Josbett | Admin. |
| Siros, Melinda | Turn Over | Lugo, Lee | Translator |
| Montgomery, Mike | QA/QC | Rojas, Moises | Procurement Local |
| Maxey, Daniel | 7EA Technical Assist. | Doran, Patrick | 7EA I&C |
| Boykin, Ken | Start Up Manager | Medina, David | High Voltage |
| Bingham, Allen | Start Up | Villareal, Luis | High Voltage |
| Graves, Mike | Start Up | Selenia, Jimenez | High Voltage |
| Hicks, Todd | Start Up | Smoak, Eric | High Voltage |
| Hazelrigg, Brett | LM 6000 TA | Sprague, Randy | High Voltage |
| DehA Garza, Adan | Start Up | Charca, Alex | High Voltage |
| Thurman, Fred | High Voltage | Gonclaves, Adriano | High Voltage |
| Perya, Harold | Start Up | Andrade, Isabel | High Voltage |

**SUBCONTRACTOR PERSONNEL:**

**CIVIL**

Operators 1 Carpenter 10 Electrician 2 Concrete Finisher 2 Laborers 12 Iron Workers 2

Truck Driver 1 Welders 1 Plumber 0 Surveyor 0

Oilers 0 Mechanic Heavy 0

**Total 31**

**Mechanical**

Welders 9 Fitters/Mechaics 16

Helpers 18 Operators 2

**Electrical**

Electricians 35 Helpers 10

**Instrumentation**

Instrument Techs 10

1. **GENERAL ITEMS**
   * 1. Design issues and procurement for the project needs to be completed as soon as possible to support current project schedule. Daily meetings are held with the design team and/or field engineers to follow up on the design and to discuss design changes and or issues.

* Cathodic design for piping system has been finalized. Estimated completion date 20 October 2010.
* GT 100 & 200 MCC is not correctly configured. Bus bar is undersized. Capacity not adequate for all required equipment. Report has been released***.*** Material is being sourced. Furthermore, internal wiring of the buckets does not match the design drawings. Rewiring of the motor starters is in process.This activity is adding a lot of additional load to the construction and start up crew as well as an impact on the schedule. Additional materials are being purchased to resolve the situation. Rewiring of MCC 200 is complete. Rewiring of MCC 100 is ongoing. Water treatment & gas compressor MCC’s are being inspected for compliance to design drawings and compatibility with the equipment shipped. EDGI assisting in design review.
* Materials and equipment delivery delays are having a substantial impact on the construction and star-up schedule and associated activities. Equipment and Materials such as power and control cable. Schedule needs to be revised to reflect the arrival of the power and instrumentation cable, water treatment equipment, and DCS.
* 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.

1. **CLIENT ISSUES/CONCERNS:**

* Preliminary discussions were held with SIDOR to discuss gas blows and alternative options. To the extent possible, SIDOR would like to minimize the need for gas blows***.*** SIDOR has agreed to gas blows and has requested a written procedure for gas blows along with a site plan indicating location of gas blow offs. A format has been reviewed. Written procedure is in process by Start Up Group.
* Sidor has indicated that the water supply is out of specification and will require pretreatment. SIDOR’s water treatment consultant has furnished a recommendation which is being reviewed by EDG. EDG has met with the SIDOR’s vendor to discuss their recommendations. EDGI advised that additional equipment will be needed to be able to treat the water based on the new sample analysis provided by SIDOR. A contract change order has been submitted to Derwick. Awaiting formal approval.
* Derwick has verbally indicated that the Fuel storage tank, fuel unloading bldg. and related utilities will be removed from our scope of work. An email has been received from Derwick deleting certain elements of the fuel storage systems. Prior to project closeout it will be necessary to complete the LM 6000 dual fuel conversion. Procurement/delivery of equipment and materials is pending.

1. **CIVIL:**
   * 1. BOP – Prep for Grout placement, water forwarding skid and GT 300.
     2. BOP – Install conduit at light pole bases
2. **CONCRETE FOUNDATIONS:**
   * 1. Foundations Complete
3. **MECHANICAL:**
   * 1. GT 100 – Turbine Lube Oil Flush Ongoing
     2. GT 100 – Install Instrument Air Line
     3. GT 100 & 200 Install Gas Vent Piping
     4. GT 200 - Punch List Ongoing
     5. GT 100 & 200 Final alignment Water Injection Skids
     6. GT 300 – Cooling Water Fin Fan – Check Blade Pitch
     7. GT 300 – Verify alignment AC & DC Lube Oil Pumps
     8. GT 300 – Verify Alignment Torque Converter and 4160 motor
     9. GT 300 – Complete platforms on Turbine and PDC
     10. GT 300 – Install Riverhawk Bolting
     11. GT 300 – Torque Inlet Filters
     12. GT 300 – Clean & Seal Filter House
     13. GT 300 – Install Fuel Gas Piping
     14. GT 300 – Complete Starting Motor Alignment
     15. BOP – Install Cooling Water Piping
     16. BOP – Install gas line supports
     17. BOP - Install Deluge System At GSU Transformers
     18. BOP - Utility Bldg. Install Air System Piping
     19. BOP – Install Piping in Water Treatment Building
     20. BOP - Raw Water Tanks – Sandblast/Prime Interior
4. **ELECTRICAL:**
   * 1. GT 100 Rewire MCC’s per design drawings
     2. GT 100 Cable Installation
     3. GT 100 & 200 Terminations in MCC’s
     4. GT 300 –Terminations From JB298, TCP, JB90, & JB 2
     5. GT 300 – Install Conduit Filter House Lighting, Exhaust Stack Lighting, PEECC exterior lighting
     6. GT 300 Cable Installation GCB to T4 & T6
     7. GT 300 Remove Motors at Fin Fan Coolers
     8. GT 300 Remove Gas Compressor Motors 7EA
     9. GT 300 Install 500 mcm 3 cables
     10. BOP – Cable installation to T 4 & T6
     11. BOP – Install conduit at light pole bases
     12. BOP – Cable Installation to Gas Compressor
     13. BOP – Install cathodic protection system
5. **INSTRUMENTATION AND CONTROLS:**
   * 1. GT 100 Calibrate Instruments on Unit 100 & 300
     2. GT 100 & 200 Install tubing.
     3. BOP – Walk Down Instrument Air
     4. BOP - Water Treatment Calibrate Instruments
6. **SCHEDULED ITEMS:** 
   * 1. ***General***
        1. CPS Schedule updates on going.
     2. ***Contract Milestone Payments***
        1. Completed Milestone Payments (50%)

Complete

* + - 1. Gas Turbines on Foundation (10%)

Complete

***8.1.2.3*** Civil Foundations Complete (25%)

Complete

***8.1.2.4*** Electrical/Mechanical Complete (10%)

October 31, 2010

* + - 1. Start- up Complete and Ready to Export Power (5%)

November 30, 2010

***Note (\*): These dates are being revised based upon an accelerated schedule.***

* + 1. ***Target Ready for Start-Up Dates***
       1. ***Unit 100 – LM6000***

***October 22, 2010 \****

* + - 1. ***Unit 200 – LM6000***

***October 22, 2010 \****

* + - 1. ***Unit 300 – 7EA***

October 31, 2010

Note (\*): These dates have been revised due to the late delivery of material. Including cables, ESD valves, MCC’s that were not fabricated correctly, and missing instrumentation.

A revised Start up Schedule has been received with a145 day duration. Durations will be evaluated prior to incorporation into the schedule.

1. **CRITICAL AREAS OF CONCERN:**

* Design and procurement activities for the project need to be completed as soon as possible to support current project schedule. We continue to have daily communications with the design team in Tulsa as well as the field engineers on the design progress.
* EDG has completed the Cable Schedule for the project. We currently have 75% of the cable required on site. Other PES sites, CVG B, and SIDOR have been providing cable as available. Cable procurement is ongoing. Substantial cable delivery has occurred late last week with additional deliveries occurring this week. Inventory of received cable is in process. Two additional cable shipments have arrived. One on the 11 Oct and another on 12 Oct. Inventory is in process to determine if all cable has been received.
* GT 200 – Generator Lube Oil Pump shaft seal has failed. Sedalia sourcing replacement parts from Tuttle. **Shaft seals have been received. Installation is in progress.**
* The cooling water circulation pumps are scheduled to ship on 13 October 2010. Anticipated ETA Site is 25 October 2010. These pumps service both the gas compressors and GT 100 and 200. Delivery will impact start up schedule.
  1. **SAFETY:**
     + - 1. Develop JSA as needed
         2. Inspection of subcontractor power tools.
         3. Inspection of motorized equipment prior to usage.
         4. Scaffold and trenching inspections ongoing.
         5. Site Orientation for New Staff
  2. **OUTSTANDING DRAWINGS:**
  3. **DRAWINGS ISSUED:**

1. **PICTURES:**

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**Cable Installation Water Treatment to GT 300**

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**Cathodic Protection Installation**

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**GT 200 Turbine Punch List**