|  |
| --- |
| **CVG SIDOR POWER PROJECT SITE “A”** |
|  |

**DATE: 29 September 2010, Wednesday**

**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:**

|  |  |  |  |
| --- | --- | --- | --- |
| 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. | Pollack, Mike | Manager Aero Dir. |
| 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 |
| Flowers, Caleb | I & C | Sprague, Randy | High Voltage |
|  |  | Flowers, Kurt | I & C |
|  |  | Doran, Patrick | I & C |

**SUBCONTRACTOR PERSONNEL:**

**CIVIL**

Operators 6 Carpenter 10 Electrician 2 Concrete Finisher 9 Laborers 25 Iron Workers 4

Truck Driver 3 Welders 3 Plumber 2 Surveyor 3

Oilers 2 Mechanic Heavy 2

**Total 60**

**Mechanical**

Welders 9 Fitters/Mechaics 16

Helpers 18 Operators 2

**Electrical**

Electricians 30 Helpers 10

**Instrumentation**

Instrument Techs 10

1. **GENERAL ITEMS**
   * 1. Design 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

* Cathodic design for piping system needs to be finalized. Meeting was held on site with local subcontractor. It was agreed to proceed on EPC basis. Cost proposal has been received from subcontractor. Design has been received.Installation in process.
* DCS Equipment ***was shipped 27 Sept 2010 from Sedalia. ETA 6 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***
* 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 (ETAs 23 Sept 2010) 40 - 45% of the cable; LM 6000. ***Material from the Industrial Cape arrived today***.

1. **CLIENT ISSUES/CONCERNS:** 
   * 1. 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.
     2. 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 just 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 is in process.

* 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 - Site grading/Install Yard Stone
     2. BOP – Erect Control Bldg.
     3. Install bollards
2. **CONCRETE FOUNDATIONS:**
   * 1. Foundations Complete
3. **MECHANICAL:**
   * 1. GT 200 – Weld liner plate in stack
     2. GT 200 – Install Drain Piping from Filter House
     3. GT 200 – Install Demin Filter at utility Bldg.
     4. GT 200 – Prep for generator flush
     5. GT 200 – Oil Flush Ongoing
     6. GT 300 Install fogging system
     7. GT 300 – Clean Filter Hosue
     8. GT 300 Complete Mechanical Punch List
     9. BOP – Install Raw Water Tank Pipe connection
     10. BOP – Install Cooling Water Piping
     11. BOP - Utility Bldg. Install Water Injection Piping
     12. BOP – Install Piping in Water Treatment Building
     13. BOP – Pre alignment of gas compressors for LM 6000
     14. Demin Water Tanks – Passavate Welds
     15. Raw Water Tanks – Sandblast roof
4. **ELECTRICAL:**
   * 1. GT 100 – Terminate 15 kv cable in SWBD 100
     2. GT 200 – Install cable MTTB to Filter House
     3. GT 100 & GT 200 Rewire MCC’s per design drawings
     4. GT 300 Install Conduit and Cable tray
     5. High Voltage – Tension Cables
     6. BOP – Utility Bldg. Terminate Cables at UPS
     7. BOP – Test Leads and Windings on the Black Start Generator
     8. BOP – Locked out all Equipment in theMCC’s
     9. BOP – Commission and Test Black Start Generator
     10. BOP – Water Treatment Install Conduit to Air Compressor
     11. BOP – Energize Battery Chargers
     12. BOP - Install ground grid
     13. BOP – Install MCC’s in Water Treatment
     14. BOP – Gas Compressor Bldg. Terminations Ongoing
5. **INSTRUMENTATION AND CONTROLS:**
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 9, 2010

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

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

***October 10, 2010 \****

* + - 1. ***Unit 200 – LM6000***

***October 10, 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 a 145 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 50% of the cable required on site. Other PES sites, CVG B, and SIDOR have been providing cable as available. Cable procurement is ongoing. Schedule is being severely impacted due to lack of cable on site.
  + 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
         6. Site Meeting to initiate lock out tag out
    2. **OUTSTANDING DRAWINGS:**
    3. **DRAWINGS ISSUED:**

1. **PICTURES:**



**Trenching Existing Roadway For Ground Grid Installation**



**Gas Compressor / Cooling Tower**