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| **CVG SIDOR POWER PROJECT SITE “A”** |
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**DATE: 22 October 2010, Friday**

**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 |  | Mat'l. Handler Local |
|  | 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 |
|  |  | Alvarez, Josbett | Admin. |
| Siros, Melinda | Start Up Turn Over | Lugo, Lee | Trans./Drwg Control |
| Montgomery, Mike | QA/QC | Rojas, Moises | Procurement Local |
| Maxey, Daniel | Start Up 7EA TA | Thurman, Fred | High Voltage |
| Boykin, Ken | Start Up Manager | Medina, David | High Voltage |
| Bingham, Allen | Start Up | Villareal, Luis | High Voltage |
| Graves, Mike | Start Up |  | High Voltage |
| Hicks, Todd | Start Up | Smoak, Eric | High Voltage |
| Hazelrigg, Brett | Start Up LM 6000 TA | Sprague, Randy | High Voltage |
| DehA Garza, Adan | Start Up | Charca, Alex | High Voltage |
| Doran, Patrick | Start Up 7EA I&C | 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/Mechanics 16

Helpers 18 Operators 2

**Total 45**

**Electrical**

Electricians 35 Helpers 10

**Total 45**

**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 field engineers to follow up on the design issues.

* Cathodic design for piping system has been finalized. Cathodic protection on going, estimated completion date 23 October 2010.
* GT 100 & 200 MCCs were not correctly configured. The equipment purchased did not match the engineering design. Bus bar was undersized. Capacity not adequate for all required equipment. Furthermore, internal wiring of the buckets does not match the design drawings. Rewiring of the motor starters needed to be done.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 needed to be purchased to resolve the situation. Rewiring of MCC 200 is complete. Rewiring of MCC 100 is ***90% complete***. Theses MCC’s correspond to Unit 100 & 200 (LM 6000’s) respectively.
* 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. ***Internal wiring of the motor buckets does not match the design drawings***. ***Rewiring of the motor starters needs to done; activity ongoing; estimated completion date: Oct 23th, 2010***
* 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. Expecting air cargo delivery at 6:00 pm 15 October 2010
* Unit 300 (7EA GTG Unit) is missing electrical equipment such as main transformer differential relay (GE 745), generator multifunction meter and aux transformer multifunction meter, bus over current relay, 86 T lock out relay, device 74-6 among others This is because CVG A is a Southaven “Even” unit and the equipment missing was installed in the “Odd” Unit installed somewhere else. Tom Koonz is already aware of this issue and actions are being taken to address this situation.
* Flushing of the LM6000 lubrication system and jacking oil will have to be repeated. Vene-Filter a local company will perform the high volume flush next week. The oil sample taken did not meet GE cleanliness criteria for referenced systems.

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. If a Change Order Approval is not received within the next 5 days the water treatment system will not be ready for construction. Start up activities and project completion will be impacted.
* 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.
* Gas compressors were visually inspected by a local gas compressor service company. Vendor strongly recommended inspection and service to be performed prior to start the equipment. A PO was issued and the service company has started to work; work is being coordinated with start-up activities.

1. **CIVIL:**
   * 1. BOP –Grout Placement GT 100 & GT 200
     2. BOP – Install forms at light pole bases
     3. BOP – Water Treatment Plant Equipment Pad – FRP
2. **CONCRETE FOUNDATIONS:**
   * 1. Foundations Complete
3. **MECHANICAL:**
   * 1. GT 100 – Turbine Lube Oil Flush Ongoing
     2. GT 100 – Install Drain Piping from Filter House
     3. GT 100 & 200 Install Gas Vent Piping
     4. GT 200 - Punch List Ongoing
     5. GT 300 – Rotating Turbine Rotor
     6. GT 300 – Install Cooling Water Pumps
     7. GT 300 – Install River Hawk Bolting
     8. GT 300 – Inspect the Inlet Silencer
     9. GT 300 – Install CO2 Piping Turbine Compartment
     10. GT 300 – Alignment of Fuel Pump
     11. GT 300 – Install Exhaust Frame Blower Piping
     12. BOP – Install Cooling Water Piping
     13. BOP – Install Demin Piping to Pumps
     14. BOP - Install Deluge System At GSU Transformers
     15. BOP - Control Building – Install Potable Water Line
     16. BOP – Install Piping in Water Treatment Building
     17. BOP – Gas Compressor - Supports for Flame Arrestors
     18. BOP - Raw Water Tanks – Sandblast/Prime Interior. Initiated painting of the tank.
     19. BOP – Connect Deluge Cabinets to Fire Main
     20. BOP – Control and admin. Bldg. HVAC Duct Installation
     21. BOP – Flushing Air System Piping
     22. BOP – Flushing Raw Water Piping
4. **ELECTRICAL:**
   * 1. GT 100 & 200 Punch List Ongoing
     2. GT 300 – Cable Installation Ongoing
     3. GT 300 – Install Conduit at exterior
     4. BOP – Water Treatment Install Conduit
     5. BOP – Water Treatment Cable Terminations
     6. BOP – Gas Compressor Install Conduit to DCS Cabinet
     7. BOP – Gas Compressor MCC Cable Installation
     8. BOP - Utility Bldg. Install Conduit to DCS Cabinet
     9. BOP – Install conduit at light pole bases
     10. BOP – Install Cathodic Protection System; to be completed tomorrow.
     11. BOP - Grounding Fence

1. **INSTRUMENTATION AND CONTROLS:**
   * 1. GT 100 Point to Point Checks in Progress
     2. GT 300 Calibrate Instruments & Install Tubing
2. **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%)

November 5th, 2010

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

November 30, 2010

***Note (\*): These dates are being revised based upon cash flow and commercial issues that are starting to impact the schedule.***

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

October 30, 2010 \*

* + - 1. ***Unit 200 – LM6000***

October 30, 2010 ***\****

* + - 1. ***Unit 300 – 7EA***

November 3, 2010 \*

Note (\*): These dates are being revised based upon cash flow and commercial issues that are starting to impact the schedule.

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:**

* Substantial amount of power and control cable delivery has been received this week. 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.
* Unit 300 (7EA GTG Unit) is missing electrical equipment such as main transformer differential relay (GE 745), generator Malfunction meter and aux transformer multifunction meter, bus over current relay, 86 T lock out relay, device 74-6 among others This is because CVG A is a Southaven “Even” unit ant the equipment missing was installed in the “Odd” Unit installed somewhere else. Tom Koonz is already aware of this issue and actions are being taken to address this situation.
  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:**



**Control and Administration Building – Exterior View**



**Control and Administration Area – Tile Installation**



**Water Circulating Skid Shed**



**Lighting Pole Foundations**



**115kV Breaker – Testing**



**115kV Switchyard Extension**