

From: [Randy Lillard](#)
To: [JD Robinson](#); [Bill Mars](#); [Daren Nerad](#); [Lewis Johnson](#); [Mark Riley](#); [Pam Arnold](#); [Jack Blair](#); [Steve Fields](#); [Ken Holcomb](#); [Julianne Wilson](#); [Shane Durlinger](#); [Ivan White](#); [Mark J. Ring](#); [John Bryant](#); [Tom Gibbs](#); [Sybil Ziegler](#); [Roger Barr](#); [Jerri Ricci](#)
Cc: [Jeff Canon](#); [Joaquin Mavares](#); [Brett Bettinger](#); [Craig Dewees](#); [Michael Horn](#); [Mike Pollock](#); [John Spilker](#); [Christopher Loveless](#); [Bob Dodson Energy-Parts](#); [Jennifer Dais](#); [Steve Huval](#)
Subject: RE: Guarenas I - Photo Update
Date: Monday, September 27, 2010 12:24:46 PM
Attachments: [IMG_0195.JPG](#)
[IMG_0201.JPG](#)
[IMG_0211.JPG](#)
[IMG_0033.JPG](#)
[IMG_0121.JPG](#)

Attached is a photo update provided by JD of the current status of the project. Following is a brief description of the 5 photos.

0195 – This is the south end of the site looking to the east. The yellow trailers to the right are the site office. The raw/fire water tank and the demin water tank ring foundations are in the background. Liquid fuel oil unloading structure to be built in the foreground.

0201 – Looking ENE near the middle of the site at the treated liquid fuel oil tank ring foundation. Existing 69 kV transmission lines towers to the left.

0211 – At the north end of the site looking north. From right to left: white container control building for Unit 100; ditto for Unit 200; large gray common control building for Units 300 and 400; and foundation for Control Room/Warehouse pre-engineered metal building.

0033 – Close-up of Unit 200, the new LM6000 from the San Francisco project.

0121 – At the north end of the site looking NE at the power block area and the network of duct bank trenches. GSU foundations blast walls in the background.

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From: Randy Lillard
Sent: Friday, September 10, 2010 1:43 PM
To: JD Robinson; Bill Mars; Daren Nerad; Lewis Johnson; Mark Riley; Pam Arnold; Jack Blair; 'Steve Fields'; 'Ken Holcomb'; Julianne Wilson; Shane Durlinger; Ivan White; Mark J. Ring; John Bryant; Tom Gibbs; Sybil Ziegler; Roger Barr
Cc: Jeff Canon; Joaquin Mavares; Brett Bettinger; Craig Dewees; Michael Horn; Mike Pollock; John Spilker; Christopher Loveless; Bob Dodson Energy-Parts; Jennifer Dais; Steve Huval
Subject: RE: Guarenas I - Project Summary Schedule Update

An update of the Project Summary Schedule is attached. Following are some of the main highlights of the schedule.

First Fire

The summary schedule is pushing back predicted first fire of Unit 400 (the 1st unit to be fired) in the construction schedule by approximately 3 weeks to 15 Nov 2010. This is due to fabrication, delivery, and erection of the 2 Liquid Fuel Oil tanks. The other main threat to delaying this first fire date is delivery and installation of 15kV electrical gear. First fire will be on LFO only and demin water injection will not be available then due to fabrication, delivery, and erection of the SS demin water tank.

Owner Provided Items

EDC has yet to provide to the property limits: 1 MW of construction power; 320 gpm minimum of raw water supply; and a natural gas pipeline.

Permitting and Deliveries

Exoneration permitting has delayed, and continues to delay, deliveries to the site. This is not due to a lack of major effort on everyone's part and it may be better than alternative processes. This will become even more critical for the remainder of September and thru October as a lot of BOP equipment and materials will be shipping during this period.

CTGs

The 2 LM2500+s and 1 LM6000 were delivered to the site in August and installation is ongoing. The LM6000 from Pakistan is expected to arrive in port in VZ later this month. The 50hz generator base for this unit will go to VZ and then to Houston where its internals will be transferred to the new 60hz generator base already there. Then the new 60hz generator base will be shipped to VZ and the site.

Other Major Mechanical Equipment

The Water Treatment System, the LFO Treatment System, and the Gas Compressors will be shipping late this month and throughout October. The Water Treatment System has numerous skids and tanks whereas the LFO Treatment System is essentially a single skid. Each of the 5 Gas Compressors has their own large skid and a separate cooler. The compressors do not have noise enclosures and are housed in an open shed. A Black Start Generator has been purchased but it has not yet been projected when it will be delivered or will be functional.

Other Major Electrical Equipment

The 15kV Switchgear/Generator Breakers are in fabrication now. The 5kV MCCs and 480V MCCs are also in fabrication. The MV gear will start shipping in early October and some LV gear may ship a month or more after that. Shipping of the aux transformers should also take place near the first of October. It would be difficult for all of this MV gear to be delivered and installed, raceway installed, and cable pulled and terminated to support a first fire date much earlier than the currently projected 15 Nov 2010 date. Substation engineering and procurement appears to be in line to support a 15 Nov 2010 first fire but substation erection has not started yet other than foundation construction.

Construction Status

Foundation construction is nearing completion. The remaining major foundations are the

Water Treatment Building, Gas Compressors Shed, Black Start Generator Shed, and the LFO Tanks containment area. The containment area construction is subject to area required for the tanks erection. Duct banks construction is an emphasis now. Mechanical and electrical construction is just getting started. Tank erection should start within the next month. I still suspect that our original estimated/budgeted manhours and costs for field erected tanks erection are way less than what it will actually take.

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From: Randy Lillard
Sent: Friday, July 02, 2010 1:45 PM
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Cc: Jeff Canon; Joaquin Mavares; Brett Bettinger; Craig Dewees; Michael Horn; Mike Pollock; John Spilker; Christopher Loveless; Bob Dodson Energy-Parts; Jennifer Dais; Skeeter Warakowski
Subject: Guarenas I - Project Summary Schedule

Attached is the initial issue of the Project Summary Schedule. This schedule is meant to highlight potential critical path items as well as items that we are fabricating ourselves. There are many more activities and equipment that are rolled up into this schedule but that are not shown in order to make it less cumbersome to review and comprehend. However, if you have some key activities that you think should be added please contact me or Chris. JD's and Scott's field schedule has hundreds of activities that are not shown here and we may have rolled 10 of their activities into a single activity in the summary schedule. I have made assumptions on some fabrication activities and welcome any feedback to get this schedule more in tune with your plan.

This schedule shows the 3 CTGs in Houston and other equipment leaving port on 15 July 2010. We are showing equipment clearing customs as if the exoneration permit will be in effect 3 weeks later which is not known at this time. There is a gap between clearing customs and for heavy equipment being delivered to site because of the heavy haul permit. This schedule is currently based on the heavy haul permit being approved 10 weeks after submittal based on previous history. If EDC/Derwick is successful in getting the permit sooner then we'll revise a few activities accordingly and the heavy haul deliveries to site will improve accordingly.

Some of the more critical activities relative to supporting first fire are LFO treatment equipment, field erected tanks fabrication and erection, LM6000s stack fabrication, and receipt of the heavy haul permit. The tanks aren't showing negative float now but we

haven't shipped any plate yet and I suspect that our original estimates for erection manhours and duration are low. JD and I will have a better feel for this later when he starts getting erection quotes on our actual tank fabrication dwgs.

This schedule is a work in progress and we have many logic ties to add and probably some to cut. We welcome any comments or suggestions and we should probably have these before we forward this schedule to Derwick or EDC.

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