

From: [Iker Candina](#)
To: [Alex Chacara](#); [Brett Bettinger](#); [David Whisenhunt](#); [Joaquin Mavares](#); [Craig Dewees](#)
Cc: [John Bryant](#)
Subject: RE: IKER
Date: Tuesday, January 19, 2010 8:00:28 AM

Thank you ALEX for the information.

David with his team, is putting a complete set of information and drawings for SIDOR to evaluate this alternative, I'm sure this info will help. I send yesterday your previous comments and they said that will

start evaluating the possibility and will find the answers to your questions.

Have a nice day.



Iker Candina

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De: Alex Chacara [mailto:achacara@proenergyservices.com]

Enviado el: Tuesday, January 19, 2010 5:06 AM

Para: Iker Candina; Brett Bettinger; David Whisenhunt; Joaquin Mavares; Craig Dewees

CC: John Bryant

Asunto: RE: IKER

Dear Gentlemen,

As per our conversation here is a more complete explanation about our suggestion regarding connecting on the 230 kv switchyard:

- Faster and more cost effective alternative:

The creation of a new 230 kv Switchyard is being considered as a viable suggestion due to several advantages outlined below but will also allow to help stabilize the existing system and sell the exceeding power to the grid at all times. Our proposal would consider our customers' needs first and avoid external disturbs on the system to interrupt SIDOR's facility and opening interconnection breakers islanding its facility and allowing them to go

back to the main grid when system is stable. We are considering adopting the same bus scheme as the existing substation and also allowing for future expansions. Also we would optimize the layout considering maintenance needs and avoiding interruptions. By being connected to the grid, in case of an event in one of the units the system would feed the plant, that instead of exporting power would be consuming but would allow our customer to have its facility running at full capacity with more reliability and avoiding downtime.

- The protection coordination engineering work will be less complex than doing it for each individual site;
 - One site to work on. Easier to manage crews and optimize resources;
 - Shorter pipe lines;
 - All construction concentrated in one place away from the main facility;
 - Flexibility and Reliability;
 - Smaller crews;
 - Logistics;
 - Offset the costs of 230 kV switchyard equipment by avoiding costs with the 13.8kV cables, connectors new 13.8kV breakers, new relays and meters on each substation, engineering and future interconnection between all existing substations.
- Concerns: Evaluate the existing substation and verify if the short circuit level is compatible with the proposed alternative.
 - Information - In order to provide our customer a proposal we will need the following:

One line diagram showing the 230kV and 115kV substations;

Nameplate of: Transformers, Circuit Breakers, Disconnect Switches, CT's, PT's;

Details about communication system

Protection scheme for the 230kV, 115kV and 13.8kV;

Original coordination study for the 230kV, 115kV and 13.8kV;

Settings for the protection relays;

Short Circuit level and the calculation of all sites;

Ground grid study and drawings;

Verify area and switchyard to confirm if there is enough space for the new layout. David mentioned that we could visit the site later.

Alex Chacara

HV Services Manager

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From: Iker Candina [<mailto:icandina@derwickassociates.com>]
Sent: Monday, January 18, 2010 7:11 PM
To: Brett Bettinger; David Whisenhunt; Joaquin Mavares; Craig Dewees; Alex Chacara
Cc: 'Alejandro Betancourt'; ptrebbau@derwickassociates.com
Subject: RV: IKER

F Y I

Here is the presentation that SIDOR gave us and you can see the location of the units, we can use it later for any of our presentation



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De: CARABALLO Jose SIDOR [<mailto:jcaraballo@sidor.com>]
Enviado el: Monday, January 18, 2010 7:16 PM
Para: Iker Candina
Asunto: RE: IKER

[Lo solicitado.](#)

De: Iker Candina [<mailto:icandina@derwickassociates.com>]
Enviado el: Domingo, 17 de Enero de 2010 11:14 p.m.
Para: CARABALLO Jose SIDOR
Asunto: IKER

Buenos días;

Te agradecería si me puedes enviar copia de las laminas de la presentación en donde salía la ubicación de las unidades para un presentación interna de la empresa.

Nos hablamos



DERWICK ASSOCIATES

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