

**From:** [Dallas Vincent](#)  
**To:** [Mahmood Tariq \(GE Infra Energy\)](#)  
**Cc:** [Alex Chacara](#); [John Bryant](#); [Dallas Vincent](#); [Joaquin Mavares](#)  
**Subject:** FW: Qatar - BU Generator Action Plan  
**Date:** Tuesday, December 22, 2009 10:39:08 PM  
**Attachments:** [folha 1.pdf](#)  
[folha 2.pdf](#)  
[folha 3.pdf](#)  
[PASSPORT - Adriano Brazil.pdf](#)

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Tariq

Enclosed is a brief summary of our action plan for your Back Up Generator Assessment Project:  
This highlights our intent which I am certain will be enhanced once our specialist are on the ground.  
I have included copies of the gentlemen's passport's that are coming over, they will need the hotel to generate a letter for them to receive a Visa, please forward this to me at once.

Our men will leave from the USA on January 3, 2010 and should arrive there on January 4<sup>th</sup>, 2010 - Tickets have been purchased so the Visa issue from the Hotel needs to happen immediately.

Should you need anything done while they are on the ground please coordinate with them and myself.

.....  
**Goals and Objective:**

Perform Site Assessment work on the Backup Generator that GE Infra is having issues with.

JAN 3, 2010 – out men depart the USA

**Phase 1 - Summary**

Men traveling to the site: Engineers - Mr. Adriano Goncalves and Mr. Marcelo Vilela;

- Check extent of the damages and prepare a list of all necessary parts to perform this repair;
- Investigate installation: equipments, protection panels, wiring and relay event reports to identify the causes of the failure;
- Oil samples - Transformer;
- Will need from customer: Full access to the site at all times;  
Drawings of the control and protection;  
Event report from the relay;  
Craft labor's to support our activity and to perform services as needed – these men to be provided by GE Infra via Mr. Tariq

Mahmood

This process should take 3 days on the ground minimal.  
We will collect all the available information and generate a complete report that will be sent to the customer before ordering the materials for the trip to perform the repairs.  
We expect Lab test to be done on various items to allow us to complete our report, this activity may affect the time it takes to deliver the report.

.....  
**Specific's:**

Phase 1:

Outline a plan of action and schedule a site visit to assess the situation and collect information:

Goals:

- Assess the extension of the damages:
  - Insulators - Insulation resistance tests, including HiPot;
  - Main Cables - Insulation resistance and analyze possible alternative: Substitution or splice;
  - Test Internal components: PT's - Ratio, winding resistance, Insulation (including secondary);
    - Lightning Arrester - Power Factor (if applicable);
    - Control wiring - Insulation (1kVDC) and connections (Mechanical integrity);
    - Bus Bar - Ohmic resistance (connections) and Hi Pot (all support and insulators);
    - Switchgear integrity - Seals and verify possible water leak, internal heaters, Doors operation and other mechanical inspections;
- Investigation:
  - List possible causes of the event and Identify most plausible one and analyze possible measures to avoid future incidents;

Verify adjacent equipments such as Generator, distribution panels, aux. transformer and main transformer.  
Inspect protection panel and its devices. Verify the compatibility of settings to coordination study;

- Visit to site:

Collect additional information to complete investigation, material list and determine man power necessary as well as estimate completion;

Turn in report to the Client and wait for their response prior to actioning Phase two of the project.

## Phase 2:

Once the report has been accepted, Phase two has been actioned and a PO has been received we will action the procurement of the parts to be ordered and shipped to the site.

Phase two Purchase Order is expected to include the manpower required to execute the job on site in Qatar which we will indicate what we believe it will require based on the manpower made available to us on site during phase one.

Our parts Team has already sourced 99 percent of most of the items, they will just be waiting for the green light to get things moving via the Purchase Order.

- Procurement:

Procure list of items necessary to perform all repair and reestablish installation to full operational capabilities. Please see preliminary list below \*.

- Repairs:

Replace damaged items;

New cables and/or terminations (stress cones and possibly splices);

Cleaning and painting;

Commissioning tests and final report.

\* This is for internal consideration and new items may be added even prior to site visitation. As for now I would check price and availability of the following items:

- Fuses;

- PT's;

- 15kV Insulators;

- Cables (need to confirm size and insulation level but I would check 15 kV insulated and as far as sizes: 4/0, 250 and 350 MCM - They will be shielded). Here is a list of suggested manufacturers:

. Alcatel;

. American Wire and Cable Co;

. General Cable Co;

. Hendrix Wire & Cable Corp;

. Kerite Company;

. Okonite Company;

. Nexans;

. South wire Co;

- Terminals and connectors (need to confirm sizes and quantities);

- Paint ANSI 70 gray (I believe that is the original color of the panel based on the pictures, but I would need to confirm);

- Weather strips and sealing material for outdoor panels (outside moisture had in similar situations influenced in failures with this characteristics so there is any chances that it may become an issue it will need to be addressed);

- 15kV Insulation Shrouds/boots and Heat Shrink Busbar Tubing. That will cut time on installation vs taping besides has better appearance (Super Seal (203)378-5015 is an alternative);

- Consumables - Procure locally (rags, denaturated alcohol, sand paper, scott brite, electric tape);

- Cost to ship our test sets and tools to the site and time (anticipate issues with Aduana);

Tariq, this is our action plan, please review and advise:

Best Regards

Dallas Vincent

*Regional Sales Manager - Middle East, Africa*

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**From:** Dallas Vincent

**Sent:** Friday, December 18, 2009 9:30 AM

**To:** Travel

**Cc:** Alex Chacara; John Bryant; Dallas Vincent

**Subject:** Qatar - Passport Visa issue for our guys from Brazil to visit a project we have in Qatar

Julie

I need you to request this Hotel send letters of invitation to include the two gentlemen I have included with Brazilian Passports

Please indicate you need to get Visa's for these men to visit Qatar on Business.

The Hotel they will be staying at is Lee Miraj Executive Residency - Doha, Qatar, you should be able to go online and pick-up their info.

The guys are planning on traveling around January 3, 2010

Please let me know if you need any more information.

We do have a PO to perform this work so this is a real project to be billed to.

Review and advise:

Please CC me on pertinent info so I can track this.

Dallas Vincent

*Regional Sales Manager - Middle East, Africa*

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**From:** Alex Chacara

**Sent:** Thursday, December 17, 2009 1:56 PM

**To:** Dallas Vincent

**Cc:** John Bryant

**Subject:** FW: Passaporte

Dallas,

Here follows the information for Marcelo.

Regards,

**Alex Chacara**

**HV Services Manager**

**ProEnergy Services**

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