From: Jeanne Brennan [redacted]
Sent: Saturday, December 8, 2012 2:47 PM
To: 'Jeffrey Epstein'
Cc: 'Brice'
Subject: FW: LSJ Solar

Toshiba's =esponse.

From:=/b> =ttaviano, Jeffrey [mailto[redacted] =br>Sent: Saturday, December 08, 2012 10:04 AM
To: =[redacted]
Subject: Re: LSJ =olar

Jeanne,

I'll look into getting a power =eter. We would install it on the 480 V side of the xfmr to include the =ine and xfmr losses in the readings. We would compare the temporary =ower meter to the utility meter, thus it would be a time and use study. =his would be very valuable information to have to properly size the =olar and energy storage system.

I should know my schedule for =he week of January 7-11 by next week.

Jeff

From<=b>: =eanne Brennan [redacted] =br>Sent: Saturday, December 08, 2012 06:53 AM
To: =ttaviano, Jeffrey
Cc:[redacted] =br>Subject: RE: LSJ Solar

Jeff,

The =ransformer for LSJ is located on the Island and owned by LSJ. This =aises the questions:

* =/span>What is =he loss at the transformer?

* =/span>Do we =eed a time and use study?

* =/span>Can you =nstall the power logger?

Also let me know what day works for you and your team =uring the week of Jan 7-11 to visit the Island and I will co-ordinate =etting it up.

Thanks =o:p>

Jeanne

From:=/b> =ttaviano, Jeffrey [mailto[redacted]
Sent: Saturday, December 08, 2012 8:17 =M
To:[redacted]
Cc:
Sub=ect: Re: LSJ Solar

Jeanne,

That would be one way to do it, =ut if you know the cable size, length and material a calculation can be =one quite accurately. You could also install a temporary power logger =ver a week or so and then compare that to the utility meter.

If =he cable was sized properly it should be less than 2% losses. =br>
We have an excellent electrical contractor in St. Croix that has =een working for Hovensa for many years. Let me know if you want me to =ntroduce him.

Jeff

From<=b>: =eanne Brennan [mailto[redacted] =br>Sent: Saturday, December 08, 2012 06:05 AM
To: =ttaviano, Jeffrey
Cc: 'brice gordon' <[redacted]> =br>Subject: RE: LSJ Solar

Jeff,

We are trying to determine =f there is significant line loss between the meter on St. Thomas and =he transformer on LSJ. One suggestion was that we purchase and =nstall an industrial grade current transformer(CT) monitor at the main =eeder capable, to meter the power in real time and send it to a web =erver for review.

What do you =hink about this idea?

Thanks,

Jeanne

From:=/b> =eanne Brennan [redacted] =br>Sent: Monday, December 03, 2012 3:59 PM
To: =Ottaviano, Jeffrey'
Cc: 'Lonkevych, Mark'; 'Sattler, =ouglas'; 'Mark White'; 'Erika Kellerhals'; 'Cecile de Jongh'; 'Richard =ahn'; 'brice gordon'; 'Darren Indyke'

Subject: RE: LSJ =olar

Jeff,

Please see attached; =APA bills, schematic of the electrical system and the generator =pecs. I will follow with additional requests. =o:p>

Any additional information or questions let me =now.

Best,
Jeanne

From:=/b> =ttaviano, Jeffrey [redacted]
Sent: Wednesday, November 21, 2012 =:25 AM
To: Jeanne Brennan
Cc: Lonkevych, Mark; =attler, Douglas; Mark White; Erika Kellerhals; Cecile de =ongh
Subject: RE: LSJ =olar

Jeanne,

An excel history will be =ine for now, but can you at least send us the latest copy of a bill so =hat we can see if there are any time-of-use and/or demand =harges. That type of data helps in our equipment sizing =alculations.

Thanks again,

Jeff

[redacted]

Toshiba International Corporation

[redacted]

Dresher, PA 19025

[redacted]

http://www.toshi=a.co.jp/sis/en/solar/index.htm

From:=/b> =eanne Brennan [mailto:ja[redacted] =br>Sent: Wednesday, November 21, 2012 8:21 AM
To: =ttaviano, Jeffrey
Cc: Lonkevych, Mark; Sattler, Douglas; =Mark White'; 'Erika Kellerhals'; 'Cecile de Jongh'
Subject: =E: LSJ Solar

Jeff,

Thanks for the follow =p. We will compile the necessary information requests. =o:p>

Do you prefer a copy of the electricity bills or =n excel history of readings and usage?

Happy Thanksgiving to =ll.

Jeanne

From:=/b> =ttaviano, Jeffrey [redacted]
Sent: Tuesday, November 20, 2012 3:48 =M
To: [redacted]
Cc: =onkevych, Mark; Sattler, Douglas; Mark White; Erika =ellerhals
Subject: LSJ =olar

Jeanne,

Thank =ou for your time this afternoon and please forward this message to =nyone on your team that should have a copy.

TIC =ill perform a preliminary feasibility study of solar energy production =n LSJ Island. We are familiar with the challenges of designing =nd building solar in the Caribbean and have developed cost effective =olutions to meet these challenges.

Our =nitial thoughts are that a solar PV plant sized to meet the entire =eeds of the island would most likely be the best solution. This =ill require that we know as much about the electricity consumption and =eneration capabilities as possible. Please, provide us with 12-24 =onths of VIWAPA electricity bills and if possible any interval or =ime-of-use data

on consumption. This data may be available from =trip charts or data logging of the generators when they were =unning.

We would also like to have the name plate data on =he generators and a single line diagram of the electrical =ystem.

Also, please indicate on a map where we can locate =he solar array and battery station.

Thank you and have a Happy =hanksgiving,

Jeff

Jeff =ttaviano

Toshiba International =orporation

[redacted]

Dresher, PA =9025

[redacted]

http://www.toshi=a.co.jp/sis/en/solar/index.htm