

To: Jeffrey Epstein[jeevacation@gmail.com]
Cc: Richard Kahn[REDACTED]
From: Brice Gordon
Sent: Wed 4/30/2014 5:12:26 PM
Subject: Re: ZDC- Main Voltage Regulation

FYI

Have forward request to Horizon Mech, should have pricing by the beginning of next week. Please note, this option will not give you complete protection from surges or brown outs .

regards Brice

On Mon, Apr 28, 2014 at 7:23 PM, Jeffrey Epstein <jeevacation@gmail.com> wrote:

all i want is an industrial size surge protector nothing more. should cost less than 10k

On Mon, Apr 28, 2014 at 7:29 PM, Richard Kahn <[REDACTED]> wrote:

Sent from my iPhone

Begin forwarded message:

From: Brice Gordon <[REDACTED]>
Date: April 7, 2014 at 3:46:36 PM EDT
To: Jeffrey Epstein <jeevacation@gmail.com>
Cc: Rich Kahn <[REDACTED]>
Subject: ZDC- Main Voltage Regulation

Here is a brief summary of various options, to protect the Main House from brownouts and voltage spikes.

The size of the service and the fact that it is single phase as opposed to typically 3 phase at this amperage is an issue

The options considered

1. Capacitor bank with surge protection
2. Power conditioner with surge protection
3. Voltage regulator
4. UPS

The first 2 options were quickly ruled out, due to size of service and in most cases would not protect house from extended brown outs or power surges.

The voltage regulator or the UPS are likely to provide the best solutions.

The Voltage Regulator is like the UPS except it has no batteries. In essence, no matter the incoming

power, it provides a constant output voltage. It will not be able to provide output voltage in conditions of constant "brownout" or total power failure from the Coop.

Estimated Cost for this equipment and to install would likely reach \$110,000.

The UPS (Uninterruptable Power Source) is similar to the voltage regulator but also has a battery bank and so can temporarily supply output voltage during constant "brownouts" or total power failure from the Coop. The time the UPS can provide power without input voltage depends on the battery bank, which will also effect the cost of this type of equipment. Typically these are used in conjunction with a generator to sustain a prolonged power outage as the battery bank will deplete, but this is not necessary if there is no objection to an eventual power outage. The cost of this is the reason it is not our first choice as it can reach \$450,000. Also, regular maintenance would need to be performed because of the batteries.

It also appears that all this can be done without involving the coop, design and engineering are costs are included into these numbers.

Should we proceed with investigating either of these options.

regards Brice

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Brice Gordon

[REDACTED]

Ph: [REDACTED]

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please note

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Brice Gordon



Ph: (

