From: Bradley, Chris
Sent: Friday, August 9, 2019 11:57 AM
To: Jesse Phillips
Cc: Garst, Bryan; Miles Larson; Forrest Tingo; Rajnish Chauhan; Angie Blakley; Khurram Ansari; Chambliss, Mike
Subject: Re: [EXT] BTM Generation

Jesse,

Thank you for providing the review and information. It is very helpful.

Chris

Sent from my iPhone

On Aug 9, 2019, at 9:20 AM, Jesse Phillips <[redacted]misoenergy.org> wrote:

> Hi Chris,
> To follow-up, internal teams reviewed and given that the unit is connected to distribution, not directly connected to MISO transmission, less than 20 MW, and no transmission impacts are identified with offset to the industrial load, there are no concerns from MISO side. An interconnection agreement is not needed as this unit appears to be solidly BTM and due to its size less than 20 MW, there also does not appear to be any other needs in terms of network modeling.
> Thank you for bringing this to our attention and providing an opportunity to review. If anything changes with the unit's plans or there are follow-up questions, please reach out to us.
> Regards,
> Jesse
>
> **From:** Chris Bradley <chris.bradley@bigrivers.com>
> **Sent:** Thursday, August 1, 2019 3:40 PM
> **To:** Jesse Phillips <[redacted]misoenergy.org>
> **Cc:** Bryan Garst <bryan.garst@bigrivers.com>; Miles Larson <[redacted]misoenergy.org>; Forrest Tingo <[redacted]misoenergy.org>; Rajnish Chauhan <[redacted]misoenergy.org>; Angie Blakley <[redacted]misoenergy.org>
> **Subject:** RE: [EXT] BTM Generation
>
> **External E-mail:** Please be cautious and evaluate before you click on links, open attachments, or provide credentials or data.
>
> Jesse,
> The attached one-line shows the Newman sub and surrounding system. The Kimberly-Clark load and generator will both be connected to the 13.8 kV side of the radially fed substation. I don't have a more detailed drawing of the connection plans.
> Since the generator is only reducing an existing large load by 14 MW, we performed a quick N-1 evaluation. No formal report was generated. The reduced load has the potential to benefit the transmission system by reducing line flows. We did capture summer and winter peak study results via PSSE one-line drawings (the summer results are attached).

Thank you,
Chris

From: Jesse Phillips [mailto:[redacted]@misoenergy.org]
Sent: Thursday, August 01, 2019 3:20 PM
To: Bradley, Chris <Chris.Bradley@bigrivers.com>
Cc: Garst, Bryan <Bryan.Garst@bigrivers.com>; Miles Larson <[redacted]@misoenergy.org>; Forrest Tingo <[redacted]@misoenergy.org>; Rajnish Chauhan <[redacted]@misoenergy.org>; Angie Blakley <[redacted]@misoenergy.org>
Subject: RE: [EXT] BTM Generation

Chris,
For our benefit, do you have a one-line that you could share with our team that clearly shows location of the generator and load(s) in relation to transmission? Also, if there is any detailed report you could share based off the transmission study that was performed, I believe our engineers would like a chance to get a look at that.
Thanks,
Jesse

From: Chris Bradley <chris.bradley@bigrivers.com>
Sent: Thursday, August 1, 2019 1:22 PM
To: Jesse Phillips <[redacted]@misoenergy.org>
Cc: Bryan Garst <bryan.garst@bigrivers.com>; Temujin Roach [redacted]@misoenergy.org>; Tim Kopp <[redacted]@misoenergy.org>; Forrest Tingo <[redacted]@misoenergy.org>; Rajnish Chauhan <[redacted]@misoenergy.org>
Subject: RE: [EXT] BTM Generation

External E-mail: Please be cautious and evaluate before you click on links, open attachments, or provide credentials or data.

Jesse,
Were any concerns identified? Also, I assume no interconnection agreement is needed – is this correct?
Thank you
Chris

From: Jesse Phillips [mailto:[redacted]@misoenergy.org]
Sent: Tuesday, June 04, 2019 8:50 AM
To: Bradley, Chris <Chris.Bradley@bigrivers.com>
Cc: Garst, Bryan <Bryan.Garst@bigrivers.com>; Temujin Roach <[redacted]@misoenergy.org>; Tim Kopp <[redacted]@misoenergy.org>; Forrest Tingo <[redacted]@misoenergy.org>; Rajnish Chauhan <[redacted]@misoenergy.org>
Subject: RE: [EXT] BTM Generation

Thanks, Chris. I am looping in other MISO-Central folks so they cane opine if they would like further information.

Jesse Phillips, P.E. | Manager
MISO | Resource Interconnection Project Management
Office: [redacted] | [redacted] | [redacted]@misoenergy.org
2985 Ames Crossing Rd | Eagan, MN | 55121

From: Chris Bradley <chris.bradley@bigrivers.com>
Sent: Monday, June 3, 2019 2:00 PM
To: Temujin Roach <[redacted]@misoenergy.org>
Cc: Jesse Phillips <[redacted]@misoenergy.org>; Bryan Garst <bryan.garst@bigrivers.com>
Subject: RE: [EXT] BTM Generation

External E-mail: Please be cautious and evaluate before you click on links, open attachments, or provide credentials or data.

As a follow-up, please be aware the industrial customer discussed below intends to use the 14 MW of new generation to offset load (not participate in the market). Big Rivers transmission studies identified no adverse system impacts. Additional information can be provided if desired.
Thank you,
Chris

From: Bradley, Chris
Sent: Tuesday, April 23, 2019 9:29 AM
To: 'Temujin Roach' <[redacted]@misoenergy.org>
Cc: Jesse Phillips <[redacted]@misoenergy.org>
Subject: RE: [EXT] BTM Generation

Temujin,
The link is very helpful. In my haste I must have overlooked that information while reviewing the MISO GI page.
Thank you,
Chris

From: Temujin Roach [mailto[redacted]@misoenergy.org]
Sent: Tuesday, April 23, 2019 9:00 AM
To: Bradley, Chris <Chris.Bradley@bigrivers.com>
Cc: Jesse Phillips <[redacted]misoenergy.org>
Subject: RE: [EXT] BTM Generation

Chris,
Good place to start is on the MISO GI page, possibly start with "MISO instructions for Interconnection Requests to the Distribution System or non-MISO Transmission System within the MISO region."
Direct link:
https://cdn.misoenergy.org/Distribution_System_Interconnection_Request_Instructions108140.pdf
Temujin
I have asked some folks internally also and will update you if I learn more.

From: Chris Bradley <chris.bradley@bigrivers.com>
Sent: Monday, April 22, 2019 4:30 PM
To: Temujin Roach <[redacted]@misoenergy.org>
Subject: [EXT] BTM Generation

External E-mail: Please be cautious and evaluate before you click on links, open attachments, or provide credentials or data.

Temujin,
An existing Big Rivers industrial customer (peak load of 37 MW) may install a 14 MW gas turbine. The customer may elect to use the generation to only offset load (not participate in the market). Do behind the meter generators follow the same study process as those who plan to participate in the market? I have a call with the customer tomorrow and hope to provide some information to the customer. I will provide BPM-015 if it is applicable in a BTM installation.
Thank you for any help you can provide,
Chris Bradley
Director Energy Control and Compliance
Big Rivers Electric Corporation
201 Third Street

Henderson, KY 42420
Direct: 270-844-6201

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