

**Commonwealth Edison Company's Response to
Rock Island Clean Line LLC's ("RI") Data Requests
RI-COMED 2.01 – 2.45
Date Received: July 2, 2013
Date Served: July 30, 2013**

REQUEST NO. RI-COMED 2.12:

- (a) Provide copies of all correspondence and communications, including all documents transmitted with or attached to any such correspondence and communications, between (i) ComEd and any representative of ComEd or person or entity acting on behalf of ComEd, on the one hand, and (ii) PJM or any representative of PJM, on the other hand, concerning any and all of the following topics: (A) the Rock Island Project; (B) interconnection queue positions currently or previously held by Rock Island; (C) any Feasibility Study, System Impact Study or Facilities Study conducted or being conducted by PJM concerning the Rock Island Project or any interconnection queue position currently or previously held by Rock Island; or (D) the methodology and assumptions that should be used or are being used for a "light load" analysis component of an interconnection System Impact Study.
- (b) Provide copies of all documents in the possession or control of ComEd or of any representative of ComEd or person or entity acting on behalf of ComEd that report, summarize or otherwise document any correspondence or communication responsive to part (a).
- (c) For any oral communications between ComEd and PJM that are responsive to part (a) but are not otherwise documented in documents provided in response to part (a) or part (b), provide (i) the date of the communication, (ii) the persons participating in the communication, and (iii) a summary of the communication.

RESPONSE:

ComEd objects to this request for the reasons stated in ComEd's objections and Data Request Response to RI-ComEd 2.15 and ComEd's General Objections. ComEd also objects to the request for documents regarding the methodology and assumptions that *should* be used for a "light load" analysis component of an interconnection System Impact Study. The methodology and assumptions are determined by PJM, subject exclusively to FERC review, and discovery into ComEd's views of methodologies or assumptions that should be used are not reasonably calculated to lead to the discovery of admissible evidence.

Subject to these objections, documents responsive to this request are included in the attachments provided with ComEd's objections and Data Request Response to RI-ComEd 2.15.

From: thomas.kay@ComEd.com
To: bernea@pjm.com
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; stephen.thiel@ComEd.com
Subject: FW: ComEd update
Attachments: [S57-S58_System_Impact_Study_Report_ComEd_080613.doc](#)
Importance: High

Aaron,

Attached are ComEd's comments on the S57-S58 System Impact Study Report. Please feel free to contact me if you have any questions regarding our comments or want to discuss further.

I apologize for the delay in getting these comments back to you. This project will have a major impact to ComEd, and we needed to make sure we reviewed in detail.

Thanks.

Tom Kay

From: bernea@pjm.com [<mailto:bernea@pjm.com>]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.: (ComEd); Thiel, Stephen L.: (ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron

Sent: Monday, July 22, 2013 10:09 AM

To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'

Subject: ComEd update

When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).

Where:

Conference #: 1-800-351-0959

Meeting ID: 0772

Rock Island Exhibit 2.16
Page 4 of 37

From: kali@aep.com
To: thomas.kay@ComEd.com
Subject: FW: S57 & 58
Date: Wednesday, August 07, 2013 3:15:27 PM
Attachments: [S57-S58_System_Impact_Study_Report_Final.doc](#)

FYI

Regards,

Kamran Ali, PE
Manager Transmission Planning
Office: (614) 552-1406
Cell: (614) 390-2954

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Tuesday, August 06, 2013 3:32 PM
To: Kamran Ali
Subject: S57 & 58

This is an EXTERNAL email. STOP. THINK before you CLICK links or OPEN attachments.

Kamran,

PJM has concluded that the injection rights for the proposed facilities should drive the dispatch of MWs in our studies (firm and non-firm rights). The attached report was prepared to document the changes in the MW dispatch under the different tests (e.g.: summer peak, light load, N-1-1, etc.). Note that ComEd has expressed that they do not agree with the ability to re-dispatch the facility under certain conditions. Please let me know if you have any questions.

Aaron Berner
Manager, Interconnection Analysis
PJM Interconnection, LLC
o 610-666-8951
c 610-945-6313
f 610-728-4874

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Page 5 of 37

From: bernea@pjm.com
To: stephen.thiel@ComEd.com; sheam@pjm.com; oharab@pjm.com
Cc: thomas.kay@ComEd.com; zafar.choudhry@ComEd.com; grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com
Subject: RE: ComEd update
Date: Wednesday, July 31, 2013 12:57:48 PM

Thanks Steve, we'll incorporate this to issue the re-tool. Thanks.

From: stephen.thiel@ComEd.com [mailto:stephen.thiel@ComEd.com]
Sent: Wednesday, July 31, 2013 12:36 PM
To: Berner, Aaron; Shea, Michelle; O'Hara, Bernard F.
Cc: thomas.kay@ComEd.com; zafar.choudhry@ComEd.com; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Aaron,

Please use the attached oneline in the S57/S59 SIS retool report.

Also, the direct connection cost estimates of \$14M is a 2012 estimate.

Steve

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.:(ComEd); Thiel, Stephen L.:(ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

CRI 0000480

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From: Berner, Aaron
Sent: Monday, July 22, 2013 10:09 AM
To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Subject: ComEd update
When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where:

Conference #: 1-800-351-0959
Meeting ID: 0772

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From: stephen.thiel@ComEd.com
To: bernea@pjm.com; sheam@pjm.com; oharab@pjm.com
Cc: thomas.kay@ComEd.com; zafar.choudhry@ComEd.com; grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com
Subject: RE: ComEd update
Date: Wednesday, July 31, 2013 11:35:36 AM
Attachments: [S57-S58.pdf](#)

Aaron,

Please use the attached online in the S57/S59 SIS retool report.

Also, the direct connection cost estimates of \$14M is a 2012 estimate.

Steve

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.:(ComEd); Thiel, Stephen L:(ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron
Sent: Monday, July 22, 2013 10:09 AM
To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Subject: ComEd update
When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where:

CRI 0000482

Conference #: 1-800-351-0959
Meeting ID: 0772

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From: bernea@pjm.com
To: bernea@pjm.com; thomas.kay@ComEd.com; stephen.thiel@ComEd.com
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update
Date: Tuesday, July 30, 2013 9:44:54 AM
Attachments: [S57-S58_System_Impact_Study_Report.doc](#)

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron
Sent: Monday, July 22, 2013 10:09 AM
To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Subject: ComEd update
When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where:

Conference #: 1-800-351-0959

Meeting ID: 0772

CRI 0000484

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From: bernea@pjm.com
To: thomas.kay@ComEd.com; stephen.thiel@ComEd.com
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com
Subject: RE: ComEd update
Date: Monday, July 29, 2013 8:35:28 AM
Attachments: [S57-S58 System Impact Study Report.doc](#)

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

-----Original Appointment-----

From: Berner, Aaron
Sent: Monday, July 22, 2013 10:09 AM
To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Subject: ComEd update
When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
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Page 11 of 37

From: bernea@pjm.com
To: thomas.kay@ComEd.com
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; stephen.thiel@ComEd.com
Subject: RE: ComEd update
Date: Tuesday, August 06, 2013 1:42:57 PM
Attachments: [S57-S58 System Impact Study Report ComEd_080613.doc](#)

Tom,

No problem, I understand. Please see attached for responses to the comments. Thanks.

Aaron

From: thomas.kay@ComEd.com [mailto:thomas.kay@ComEd.com]
Sent: Tuesday, August 06, 2013 1:28 PM
To: Berner, Aaron
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; stephen.thiel@ComEd.com
Subject: FW: ComEd update
Importance: High

Aaron,

Attached are ComEd's comments on the S57-S58 System Impact Study Report. Please feel free to contact me if you have any questions regarding our comments or want to discuss further.

I apologize for the delay in getting these comments back to you. This project will have a major impact to ComEd, and we needed to make sure we reviewed in detail.

Thanks.

Tom Kay

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.:(ComEd); Thiel, Stephen L:(ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'

CRI 0000486

Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron

Sent: Monday, July 22, 2013 10:09 AM

To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul;
'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'

Subject: ComEd update

When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).

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From: bernea@pjm.com
To: thomas.kay@ComEd.com
Subject: Re: ComEd update
Date: Wednesday, July 31, 2013 5:49:13 PM

Ok. I'll call in the morning.

On Jul 31, 2013, at 6:47 PM, "thomas.kay@ComEd.com" <thomas.kay@ComEd.com> wrote:

Aaron,

ComEd is still going to have some more comments on the S57/S58 re-tool report. I left you a voice mail about this also. We'll need to talk today or tomorrow. Is this OK?

Tom

From: bernea@pjm.com [<mailto:bernea@pjm.com>]
Sent: Wednesday, July 31, 2013 12:58 PM
To: Thiel, Stephen L:(ComEd); sheam@pjm.com; oharab@pjm.com
Cc: Kay, Thomas W.:(ComEd); Choudhry, Zafar I:(ComEd); grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com
Subject: RE: ComEd update

Thanks Steve, we'll incorporate this to issue the re-tool. Thanks.

From: stephen.thiel@ComEd.com [<mailto:stephen.thiel@ComEd.com>]
Sent: Wednesday, July 31, 2013 12:36 PM
To: Berner, Aaron; Shea, Michelle; O'Hara, Bernard F.
Cc: thomas.kay@ComEd.com; zafar.choudhry@ComEd.com; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Aaron,

Please use the attached online in the S57/S59 SIS retool report.

Also, the direct connection cost estimates of \$14M is a 2012 estimate.

Steve

From: bernea@pjm.com [<mailto:bernea@pjm.com>]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.:(ComEd); Thiel, Stephen L:(ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

CRI 0000488

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron
Sent: Monday, July 22, 2013 10:09 AM
To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul;
'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Subject: ComEd update
When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).
Where:

Conference #: 1-800-351-0959

Meeting ID: 0772

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Page 15 of 37

From: thomas.kay@ComEd.com
To: bernea@pjm.com
Subject: RE: ComEd update

Aaron,

ComEd is still going to have some more comments on the S57/S58 re-tool report. I left you a voice mail about this also. We'll need to talk today or tomorrow. Is this OK?

Tom

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Wednesday, July 31, 2013 12:58 PM
To: Thiel, Stephen L:(ComEd); sheam@pjm.com; oharab@pjm.com
Cc: Kay, Thomas W.:(ComEd); Choudhry, Zafar I:(ComEd); grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com
Subject: RE: ComEd update

Thanks Steve, we'll incorporate this to issue the re-tool. Thanks.

From: stephen.thiel@ComEd.com [mailto:stephen.thiel@ComEd.com]
Sent: Wednesday, July 31, 2013 12:36 PM
To: Berner, Aaron; Shea, Michelle; O'Hara, Bernard F.
Cc: thomas.kay@ComEd.com; zafar.choudhry@ComEd.com; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

Aaron,

Please use the attached online in the S57/S59 SIS retool report.

Also, the direct connection cost estimates of \$14M is a 2012 estimate.

Steve

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Tuesday, July 30, 2013 9:45 AM
To: bernea@pjm.com; Kay, Thomas W.:(ComEd); Thiel, Stephen L:(ComEd)
Cc: grytsy@pjm.com; mallab@pjm.com; perezr@pjm.com; sheam@pjm.com
Subject: RE: ComEd update

Tom,

Please find attached an updated report with additional notes added regarding re-dispatch.

Aaron

From: Berner, Aaron
Sent: Monday, July 29, 2013 9:35 AM
To: 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'
Cc: Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul
Subject: RE: ComEd update

CRI 0000490

Tom/Steve:

Please see attached for a draft report documenting the current results.

Aaron

<< File: S57-S58_System_Impact_Study_Report.doc >>

-----Original Appointment-----

From: Berner, Aaron

Sent: Monday, July 22, 2013 10:09 AM

To: Berner, Aaron; Grytsulyak, Yuriy; Malladi, Brindavani; Perez-Guerrero, Raul; 'thomas.kay@ComEd.com'; 'stephen.thiel@ComEd.com'

Subject: ComEd update

When: Monday, July 29, 2013 10:00 AM-11:00 AM (GMT-05:00) Eastern Time (US & Canada).

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Rock Island Exhibit 2.16
Page 17 of 37

From: thomas.kay@ComEd.com
To: bernea@pjm.com
Subject: RE: S57 & 58

Thanks Aaron. I think the wording looks good. I will get back to you later this morning with a response. I will at least want to add one more sentence to emphasize that the curtailment will occur during all system conditions (even normal conditions). Beyond that, I don't think we will have many other comments/changes.

Thanks.

Tom Kay

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Thursday, August 08, 2013 7:03 AM
To: Kay, Thomas W.: (ComEd)
Subject: S57 & 58

Tom,

Based on our conversation yesterday I have added additional language to the paragraph under the light load voltage violations found at 3500MWs dispatch of the facility to further expand on the thoughts that the issues associated with these problems at light load would be reviewed and conditions established which would require that the S57 & S58 facility output be curtailed to the firm injection capability of 700MWs. Please let me know if you have any questions. I will be speaking to Steve today in order to address the ComEd comments to him and will determine how PJM would wish to proceed. Following this discussion I will contact you to advise of our thoughts moving forward. Thanks.

Aaron Berner

Manager, Interconnection Analysis
PJM Interconnection, LLC
o 610-666-8951
c 610-945-6313
f 610-728-4874

Rock Island Exhibit 2.16
Page 18 of 37

From: bernea@pjm.com
To: thomas.kay@ComEd.com
Subject: RE: S57 & 58
Date: Thursday, August 08, 2013 8:16:00 PM

Tom,

I received your voice message and wanted to get back to you to confirm that we used the report attached to your email below from 2:51 this afternoon. I'll look forward to moving forward with continued development of this project with you and ComEd. Thank you for all your help.

Aaron

From: thomas.kay@ComEd.com [mailto:thomas.kay@ComEd.com]
Sent: Thursday, August 08, 2013 2:51 PM
To: Berner, Aaron
Cc: zafar.choudhry@ComEd.com; stephen.thiel@ComEd.com
Subject: RE: S57 & 58

Aaron,

We have reviewed the draft you sent this morning. We have included a few more recommended revisions as highlighted in the attached. Please review and call me if you have questions.

Thanks.

Tom Kay

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Thursday, August 08, 2013 7:03 AM
To: Kay, Thomas W.:(ComEd)
Subject: S57 & 58

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Aaron Berner
Manager, Interconnection Analysis
PJM Interconnection, LLC
o 610-666-8951

CRI 0000493

c 610-945-6313
f 610-728-4874

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From: thomas.kay@ComEd.com
To: bernea@pjm.com
Cc: zafar.choudhry@ComEd.com; stephen.thiel@ComEd.com
Subject: RE: S57 & 58
Attachments: [PJM System Impact Study ComEd Comments 08082013.docx](#)

Aaron,

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Thanks.

Tom Kay

From: bernea@pjm.com [mailto:bernea@pjm.com]
Sent: Thursday, August 08, 2013 7:03 AM
To: Kay, Thomas W.:(ComEd)
Subject: S57 & 58

Tom,

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Aaron Berner

Manager, Interconnection Analysis
PJM Interconnection, LLC
o 610-666-8951
c 610-945-6313
f 610-728-4874

Rock Island Exhibit 2.16
Page 21 of 37

From: stephen.thiel@ComEd.com
To: thomas.kay@ComEd.com
Subject: RE: S57/S58 Report
Date: Monday, July 29, 2013 12:47:30 PM

Tom,

Aaron was going to confirm that the "Potential Voltage Issues (3500 MW)" sections was performed for LL.

Brinda stated that the "Potential N-1-1 Violations" section did not incorporate redispatch/op-steps. I thought PJM was going to add additional explanation to this section.

Also, Aaron was going to add additional clarification that additional studies would be required to determine at what system load levels RICL would be able to be dispatched to the full 3500 MW.
Steve

From: Kay, Thomas W.:(ComEd)
Sent: Monday, July 29, 2013 12:34 PM
To: Thiel, Stephen L:(ComEd)
Subject: S57/S58 Report

Steve,

Can you remind me what the changes that PJM was going to make to the S57/S58 report and send it out again today?

Thanks.

Tom

From: bernea@pjm.com
To: thomas.kay@ComEd.com
Subject: S57 & 58
Date: Thursday, August 08, 2013 7:03:13 AM
Attachments: [S57-S58_System_Impact_Study_Report_Final_r1.doc](#)

Tom,

Based on our conversation yesterday I have added additional language to the paragraph under the light load voltage violations found at 3500MWs dispatch of the facility to further expand on the thoughts that the issues associated with these problems at light load would be reviewed and conditions established which would require that the S57 & S58 facility output be curtailed to the firm injection capability of 700MWs. Please let me know if you have any questions. I will be speaking to Steve today in order to address the ComEd comments to him and will determine how PJM would wish to proceed. Following this discussion I will contact you to advise of our thoughts moving forward. Thanks.

Aaron Berner

Manager, Interconnection Analysis
PJM Interconnection, LLC
o 610-666-8951
c 610-945-6313
f 610-728-4874

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Page 23 of 37

From: thomas.kay@ComEd.com
To: bernea@pjm.com
Cc: zafar.choudhry@ComEd.com; stephen.thiel@ComEd.com
Subject: S57/S58 SIS

Aaron,

As we discussed on the phone, ComEd is still finalizing our comments on the revised System Impact Study Report that you sent to us on Tuesday. As we have indicated, ComEd has serious concerns about the viability of the operating procedures that would need to be implemented in order to prevent voltage collapse or cascading failures for the results presented in this report. The fact that PJM will need to coordinate and reach agreement with MISO on the operating procedures increases the complexity further. We are also extremely concerned about the unstable voltage scenarios presented in the "Potential Voltage Issues" section of the report. We don't understand yet how operating procedures could ensure reliable and stable operation of the system for the failed breaker scenarios.

Because of the significance of our comments, ComEd needs a little more time to review our comments on the SIS you sent on Tuesday. I will try to see if I can get you our comments today, but it may be Monday before I can send you the final comments.

In addition, ComEd will also be sending a letter to Mike Kormos expressing our concerns with the SIS assumptions, results and conclusions. We expect to send this letter to PJM either next Monday or Tuesday. In order to ensure that PJM fully understands ComEd's concerns prior to issuing this report, we would request that PJM wait until receiving the letter from ComEd before issuing the report.

Please contact me if you have any questions or want to discuss further.

Thanks.

Tom Kay

From: Thiel, Stephen L:(ComEd)
To: "grytsy@pjm.com"
Cc: bernea@pjm.com; [Kay, Thomas W.:\(ComEd\)](mailto:Kay.Thomas.W.:(ComEd)); "mallab@pjm.com"
Subject: RE: S57 LL Impacts
Date: Thursday, March 14, 2013 9:52:00 AM
Attachments: [S57_Impacts_NoUpgrades.xlsx](#)
[Upgrades.zip](#)

Yuriy,

I have completed ComEd's review of the S57/58 light load impacts. I have attached both a compressed file containing the PSS/E upgrades, as well as a description of the required upgrades and planning level cost estimates.

You had also mentioned that 250 MVAR of bus capacitors might be required at ComEd's TSS 112 Wilton Center 765 kV bus. Before I can respond whether this is feasible, I need additional information. ComEd does not have any capacitors of this size and voltage installed on its system. Can you inquire with AEP and determine if they have 765 kV capacitors installed on their system, and if so, what size footprint do they require.

My understanding is that this analysis includes the impacts of retired Midwest Generation coal units (i.e. Crawford, Fisk & State Line). Please let me know if this is not the case. It is also my understanding that you will test these upgrades in the LL thermal case and determine if they mitigate the identified OVL'D's. If they do provide the desired mitigation, the upgrades will be included in a retool S57/58 stability analysis.

ComEd's position is still that a new 765 kV transmission line is the preferred upgrade to address the ever-increasing west-to-east flow of renewable energy. Both PJM and MISO studies have shown the need for increased transmission to support increased renewable generation. ComEd would request that PJM share the results of the stability study before proceeding with releasing these study results to Clean Line.

Please let me know if you have any questions.
Thank you

Steve Thiel
Transmission Planning System Studies
2 Lincoln Center, 9th Floor, NW-040
Oakbrook Terrace, IL 60181-4260
Com*Ed
An Exelon Company
Phone (630) 437-2793
E-mail stephen.thiel@comed.com

From: grytsy@pjm.com [<mailto:grytsy@pjm.com>]
Sent: Tuesday, March 05, 2013 9:36 AM
To: Thiel, Stephen L:(ComEd)
Cc: bernea@pjm.com; grytsy@pjm.com
Subject: S57 LL Impacts

Steve,

Attached are S57 LL impacts on ComEd. Please provide necessary upgrade to fix the overloads.

Sincerely,

Yuriy Grytsulyak

PJM Interconnection, LLC

Interconnection & Generation Planning

Office 610-666-4483

grytsy@pjm.com

From: stephen.thiel@ComEd.com
To: mallab@pjm.com
Cc: thomas.kay@ComEd.com; bernea@pjm.com
Subject: RE: S57 S58 POI change_comp results.xls
Date: Monday, April 08, 2013 4:23:43 PM
Attachments: [New_POI_Ratings_Update.idv](#)
[TSS935_Instl345kV_BT.idv](#)

Brinda,

I've begun reviewing the violations that you submitted. I've attached a PSS/E change file that updates ratings to align with ComEd's ERDB. This update includes summer normal, emergency & applicable load dump ratings for the 2-345kV lines cut for the S57/58 new POI, as well as for ComEd's Lockport-Kendall County 345 kV lines. This should reduce/eliminate many of the violations.

I have also attached an upgrade to install a new normally closed 345 kV bus-tie at TSS 935 Kendall County EC. This project has already been approved as a PJM RTEP project.

Please update the ratings and test the Kendall BT reinforcement. Hopefully this will clean up most of the violations. Let me know if you have any questions.

Thanks
Steve

From: mallab@pjm.com [mailto:mallab@pjm.com]
Sent: Monday, April 08, 2013 8:00 AM
To: Thiel, Stephen L: (ComEd)
Cc: bernea@pjm.com; Kay, Thomas W.: (ComEd)
Subject: FW: S57 S58 POI change_comp results.xls

Steve,

Please find attached the comparison sheet for T queue case before and after S57/S58 POI change. I listed both increase in loadings and new overloads. For flowgates with increase in loadings, please confirm the reinforcement and ratings included in the spreadsheet, and provide reinforcement for others.

For the new violations, please concentrate on the 345 kV lines going to Dresden and Kendall and let us know what would ComEd propose to reinforce the 345 kV lines to ~150%.

Thanks,
Brinda Malladi

From: grytsy@pjm.com
To: [Thiel, Stephen L:\(ComEd\)](mailto:Thiel, Stephen L:(ComEd))
Cc: grytsy@pjm.com
Subject: RE: S57 S58 POI change_comp results.xls
Date: Tuesday, April 23, 2013 7:13:03 AM
Attachments: [2014LL_PJM_O-U4_12-31-2012_S57at765_ST_S57.zip](#)
[cosns.zip](#)

Steve,
Attached are the case and contingency files.

Thank you,
Yuriy

From: stephen.thiel@ComEd.com [mailto:stephen.thiel@ComEd.com]
Sent: Monday, April 22, 2013 6:02 PM
To: Grytsulyak, Yuriy
Cc: Berner, Aaron; thomas.kay@ComEd.com; Malladi, Brindavani
Subject: RE: S57 S58 POI change_comp results.xls

Yuriy,
I have generated a planning-level cost estimate which is currently being internally reviewed here at ComEd. I expect that I should be able to get you the estimate by the end of this week.

Regarding the alternate POI LL study case and CTGC's, can you send me the case & CTGC's you will be using for this study and I will translate the change files & CTGC files I created for the SP study.

Thanks
Steve

From: grytsy@pjm.com [mailto:grytsy@pjm.com]
Sent: Monday, April 22, 2013 8:01 AM
To: Thiel, Stephen L:(ComEd); Kay, Thomas W.:(ComEd)
Cc: bernea@pjm.com; mallab@pjm.com; grytsy@pjm.com
Subject: RE: S57 S58 POI change_comp results.xls

Steve,

Any updates on the estimates?

Thank you,
Yuriy

From: Grytsulyak, Yuriy
Sent: Tuesday, April 16, 2013 4:07 PM
To: stephen.thiel@ComEd.com; Berner, Aaron
Cc: thomas.kay@ComEd.com; Malladi, Brindavani
Subject: RE: S57 S58 POI change_comp results.xls

Steve,
For the record, as we just discussed on a phone you will try to put together cost for direct connect

of S57 to the new POI (765/345kV) and the cost of MOD by the end of this week.

Sincerely,

Yuriy Grytsulyak

PJM Interconnection, LLC

Interconnection & Generation Planning

Office 610-666-4483

grytsy@pjm.com

&nb sp;

From: Grytsulyak, Yuriy
Sent: Tuesday, April 16, 2013 1:19 PM
To: stephen.thiel@ComEd.com; Berner, Aaron
Cc: thomas.kay@ComEd.com; Malladi, Brindavani; Grytsulyak, Yuriy
Subject: RE: S57 S58 POI change_comp results.xls

All,

I tested the provided upgrade s and they alleviate overloads identified by Brinda. I also tested the new contingencies provided by Steve and they do not cause any new thermal violations.

Yuriy

From: stephen.thiel@ComEd.com [<mailto:stephen.thiel@ComEd.com>]
Sent: Monday, April 15, 2013 10:30 AM
To: Berner, Aaron
Cc: thomas.kay@ComEd.com; Malladi, Brindavani; Grytsuly ak, Yuriy
Subject: RE: S57 S58 POI change_comp results.xls

Aaron,

SPOG 3-28 is an existing operating procedure. At one time, ComEd had proposed the installation of a 2nd Wolfs autoxfmr in the RTEP. This project called for the elimination of the SPOG 3-28. ComEd has now proceeded with the installation of the 1st Plano autoxfmr in lieu of the 2nd Wolfs autoxfmr. This project was approved by PJM and the SPOG is still required and valid.

I believe the CTGC files were in error and the SPOG was never added back in.

Steve

From: bernea@pjm.com [<mailto:bernea@pjm.com>]
Sent: Monday, April 15, 2013 7:21 AM
To: Thiel, Stephen L:(ComEd); mallab@pjm.com
Cc: Kay, Thomas W.:(ComEd); grytsy@pjm.com
Subject: RE: S57 S58 POI change_comp results.xls

Steve,

In the cases where you indicate to add SPOG 3-28 to CTGC definition, does this mean the contingency was incorrect or is this a new requirement for the SPOG and the condition would need to be added to the guide?

Aaron

From: stephen.thiel@ComEd.com [<mailto:stephen.thiel@ComEd.com>]
Sent: Friday, April 12, 2013 5:36 PM
To: Malladi, Brindavani
Cc: thomas.kay@ComEd.com; Berner, Aaron; Grytsulyak, Yuriy
Subject: RE: S57 S58 POI change_comp results.xls

Brinda,

I have reviewed the violations you submitted and am resubmitting your spreadsheet with my comments included. Please refer to inserted columns I, J, K & L for my comments. I have also highlighted all "OPERATIONAL" CTGC's; as these violations do not require upgrades.

I have attached three PSS/E change files to address the violations:

- "New_POI_Ratings_Update II.idv" – contains ratings updates to align with ComEd's ERDB (NOTE: these are not upgrades)
- "L10806 Upgrade.idv" – reinforcement project to upgrade L10806 MOD at TSS 108 Lockport
- "SPOG 3-28.con"-stuck CB CTGC definition changes to account for SPOG 3-28 (OPERATION OF 138 KV TR 81 CIRCUIT BREAKER AT WOLFS TSS 143 FOR 345 KV LINE 14321 OPENENDING AT ELECTRIC JUNCTION TSS 111); tripping of Wolfs TR 81 was removed from these CTGC definitions when a 2nd Wolfs auto had been part of the RTEP (I think it was 2012). Your study case has 2 Plano autos modeled; the 2nd one being allocated to the S57/58 project.

Please incorporate these ratings & CTGC changes and retest. Please let me know if you have any questions.

Thank you

Steve Thiel
Transmission Planning System Studies
2 Lincoln Center, 9th Floor, NW-040
Oakbrook Terrace, IL 60181-4260

Com*Ed
An Exelon Company

Phone (630) 437-2793

E-mail stephen.thiel@comed.com

From: mallab@pjm.com [<mailto:mallab@pjm.com>]
Sent: Thursday, April 11, 2013 3:58 PM
To: Thiel, Stephen L:(ComEd)
Cc: Kay, Thomas W.:(ComEd); b ernea@pjm.com; grytsy@pjm.com
Subject: RE: S57 S58 POI change_comp results.xls

Steve,

I tested the impact of S57/S58 POI change on U queue case with the attached upgrades modeled.

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Please find attached the list of overloads caused due to the POI change in the U queue case. We need to test if the 765 kV upgrades identified in the past will resolve these issues. Please review the results and provide your comments.

Thanks,
Brinda Malladi

From: stephen.thiel@ComEd.com [<mailto:stephen.thiel@ComEd.com>]
Sent: Monday, April 08, 2013 5:24 PM
To: Malladi, Brindavani
Cc: thomas.kay@ComEd.com; Berner, Aaron
Subject: RE: S57 S58 POI change_comp results.xls

Brinda,
I've begun reviewing the violations that you submitted. I've attached a PSS/E change file that updates ratings to align with ComEd's ERDB. This update includes summer normal, emergency & applicable load dump ratings for the 2-345kV lines cut for the S57/58 new POI, as well as for ComEd's Lockport-Kendall County 345 kV lines. This should reduce/eliminate many of the violations.

I have also attached an upgrade to install a new normally closed 345 kV bus-tie at TSS 935 Kendall County EC. This project has already been approved as a PJM RTEP project.

Please update the ratings and test the Kendall BT reinforcement. Hopefully this will clean up most of the violations. Let me know if you have any questions.

Thanks
Steve

From: mallab@pjm.com [<mailto:mallab@pjm.com>]
Sent: Monday, April 08, 2013 8:00 AM
To: Thiel, Stephen L:(ComEd)
Cc: bernea@pjm.com; Kay, Thomas W.:(ComEd)
Subject: FW: S57 S58 POI change_comp results.xls

< p class=MsoNormal>Steve,

Please find attached the comparison sheet for T queue case before and after S57/S58 POI change. I listed both increase in loadings and new overloads. For flowgates with increase in loadings, please confirm the reinforcement and ratings included in the spreadsheet, and provide reinforcement for others.

For the new violations, please concentrate on the 345 kV lines going to Dresden and Kendall and let us know what would ComEd propose to reinforce the 345 kV lines to ~150%.

Thanks,
Brinda Malladi

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From: Thiel, Stephen L:(ComEd)
To: "mallab@pjm.com"
Cc: [Kay, Thomas W.:\(ComEd\)](mailto:Kay.Thomas.W.:(ComEd)); bernea@pjm.com; grytsy@pjm.com
Subject: RE: S57 updated report (DRAFT)
Date: Wednesday, May 01, 2013 3:09:00 PM

Brinda,
The 609.5 MVA rating in the spreadsheet is correct.

I assume that the 480 MVA rating in the S57/58 SIS report posted on the website should be 609.5 MVA, too. Otherwise, I am trying to understand the discrepancy in post-CTGC loading: 504.15 MVA (480 MVA * 105.4031%) vs. 623.58 MVA (609.5 MVA * 102.31%).

Steve

From: mallab@pjm.com [<mailto:mallab@pjm.com>]
Sent: Wednesday, May 01, 2013 2:50 PM
To: Thiel, Stephen L:(ComEd)
Cc: Kay, Thomas W.:(ComEd); bernea@pjm.com; grytsy@pjm.com
Subject: RE: S57 updated report (DRAFT)

Steve,
In the attached sheet you sent me some time ago I see ComED ERDB at 609.5 MVA (S57 tab). Please confirm the correct ratings so that I will update the report.
Thanks,
Brinda

From: stephen.thiel@ComEd.com [<mailto:stephen.thiel@ComEd.com>]
Sent: Wednesday, May 01, 2013 2:58 PM
To: Malladi, Brindavani
Cc: thomas.kay@ComEd.com; Berner, Aaron; Grytsulyak, Yuriy
Subject: RE: S57 updated report (DRAFT)

Brinda,
The violation you cite below (i.e. "1a") is the same violation identified in the S57/58 SIS retool report posted on the PJM website, dated November 2012 (i.e. "1c"). I noticed that the loading percentages below ("1a") are slightly less than those specified in the November report ("1c"). This makes sense, as a number of projects have withdrawn.

However, I noticed that the ALDR are different; 609.5 vs. 480 MVA. Can you confirm that both ratings are correct?
Thanks
Steve

From: mallab@pjm.com [<mailto:mallab@pjm.com>]
Sent: Wednesday, May 01, 2013 12:16 PM
To: Kay, Thomas W.:(ComEd); Thiel, Stephen L:(ComEd)
Cc: grytsy@pjm.com; bernea@pjm.com
Subject: RE: S57 updated report (DRAFT)

Steve,

The three upgrade options tested for Light Load Analysis were modeled for S57/S58 summer peak run.

Following overload was seen for all the three reinforcement option studies.

Item	Contribution MVA	Overloaded Element	Overload %		Rating		Contingency Element
			From	To	Type	MVA	
1a	82.7	Plano 138/345 kV transformer TR 81 (36372 to 36076)	88.71	102.31	ALDR	609.5	tower outage of '138-L11104_R-R+_345-L16704_B-S'

This violation will be included in the impact study report.

Brinda

From: Berner, Aaron
Sent: Friday, April 26, 2013 2:06 PM
To: thomas.kay@ComEd.com; stephen.thiel@ComEd.com
Cc: Grytsulyak, Yuriy; Malladi, Brindavani
Subject: FW: S57 updated report (DRAFT)

Tom/Steve:

I wanted to follow up with a few items following our discussion yesterday. Attached is the report showing the roll up of the three options for reinforcement we have been reviewing and is incomplete at this point as it will require the inclusion of summer peak violations. Yuriy has indicated that he believes he'll have the light load POI change analysis completed and to you by next Friday. Brinda is also working through the two remaining options in the summer peak and expects to have the analysis completed by the end of next week. Let me know if you have any questions.

Aaron

From: Grytsulyak, Yuriy
Sent: Thursday, April 25, 2013 11:02 AM
To: Berner, Aaron
Cc: Grytsulyak, Yuriy
Subject: S57 updated report (DRAFT)

Sincerely,

Yuriy Grytsulyak

PJM Interconnection, LLC

Interconnection & Generation Planning

Office 610-666-4483

grytsy@pjm.com

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From: grytsy@pjm.com
To: [Kay, Thomas W.:\(ComEd\)](mailto:Kay.Thomas.W.:(ComEd)); [Thiel, Stephen L:\(ComEd\)](mailto:Thiel.Stephen.L:(ComEd)); kali@aep.com
Cc: bernea@pjm.com; grytsy@pjm.com
Subject: S57 Light Load re-tool (700MW)
Date: Tuesday, May 28, 2013 11:48:28 AM
Attachments: [For_TO.zip](#)

All,

Since it was decided S57 should be studied as 700MW injection I re-ran the light load analysis and found **no thermal and no voltage violations**. Attached is the study case and contingency files used for the analysis. Please confirm my results or let me know if you have any questions/concerns so we can resolve them.

Thank you,

Sincerely,

Yuriy Grytsulyak

PJM Interconnection, LLC

Interconnection & Generation Planning

Office 610-666-4483

grytsy@pjm.com

From: [Eric Thoms](#)
To: [Kay, Thomas W.:\(ComEd\)](#)
Cc: [Engelmann, Alan J:\(ComEd\)](#); [Thiel, Stephen L:\(ComEd\)](#)
Subject: RE: Rock Island HVDC System Impact Study Kick Off Call
Date: Thursday, July 11, 2013 3:25:41 PM

Tom,

Will do. Thanks

Eric Thoms
Advisor - Policy & Economic Studies
Transmission Asset Management
MISO | 1125 Energy Park Drive | St. Paul, MN 55108 | ethoms@misoenergy.org | Office: 651-632-8454

From: thomas.kay@ComEd.com [<mailto:thomas.kay@ComEd.com>]
Sent: Thursday, July 11, 2013 3:22 PM
To: Eric Thoms
Cc: alan.engelmann@ComEd.com; stephen.thiel@ComEd.com; thomas.kay@ComEd.com
Subject: RE: Rock Island HVDC System Impact Study Kick Off Call

Eric,

Thanks for the meeting today. I think it was a very good and informative meeting. ComEd looks forward to participating in the ad-hoc study group. Please continue to include Steve Thiel, Al Engelmann and Tom Kay on the ad-hoc study group.

Thanks.

Tom Kay
Manager
Interconnection & System Studies
ComEd
Ph: 630-437-2758

From: Eric Thoms [<mailto:ethoms@misoenergy.org>]
Sent: Thursday, July 11, 2013 1:00 PM
To: Tom Mielnik; Peter Schuster; Deral Danis (ddanis@cleanlineenergy.com); Wayne Galli (wgalli@cleanlineenergy.com); David K. Duebner; Durgesh Manjure; Karan Joshi; 'grytsy@pjm.com'; Kay, Thomas W.:(ComEd); bernea@pjm.com; psajja@nisource.com; Mike Steckelberg; 'Douglas Clark'; Tyler Baxter; 'Damien Sommer'; 'Richard Dahl'; William Sondermann; Kevin Bornhoft; rrfox@nisource.com; Jason Standings; Alan Burbach; 'curt.nesbitt@mrenergy.com'; 'Dan Barr'; Dan Burns; Dennis Wagner; Dan Lenihan; Gayle Nansel; Dale Sollom; Grytsulyak, Yuriy; J Mayhan; Jeremy Voll; 'Jared alholinna'; Jason Weiers; Jeff Hynds (JHynds@ameren.com); 'Jim Verhaar'; 'Joe Berry'; 'Kim Gardner'; Laurie Dunham; Lewis Ross; Pat Shanahan; 'Richard Dahl'; Jeff Gindling; Mary Anne Groszek; Mike Riewers; Rebecca Ostash (rostash@transgridsolutions.com); ckarawita@transgridsolutions.com
Cc: 'Swanson, Jim'; Thiel, Stephen L:(ComEd); 'Richard Dahl'; Luke Erichsen; 'HERZOG, MICHAEL A'; 'mallab@pjm.com'; Chris Bultsma; 'Majumder, Rajat (E T TS 4 NAM S)'; Dennis Dare; 'Feltz, Richard J'; 'Brownfield, Gary T'; Patrick Jehring
Subject: RE: Rock Island HVDC System Impact Study Kick Off Call

Attached is a slide presentation to facilitate the meeting.

Thanks,

Rock Island Exhibit 2.16
Page 37 of 37

Interconnecting Transmission Owner:	ComEd
Transmission Provider:	PJM

If you have any questions, please contact me at 651-632-8454.

Thanks,

Eric Thoms

Transmission Asset Management
MISO | 1125 Energy Park Drive | St. Paul, MN 55108 | ethoms@misoenergy.org | Office: 651-632-8454

<< File: Rock Island HVDC Scope 20130621.docx >>

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