

EB-2022-0157

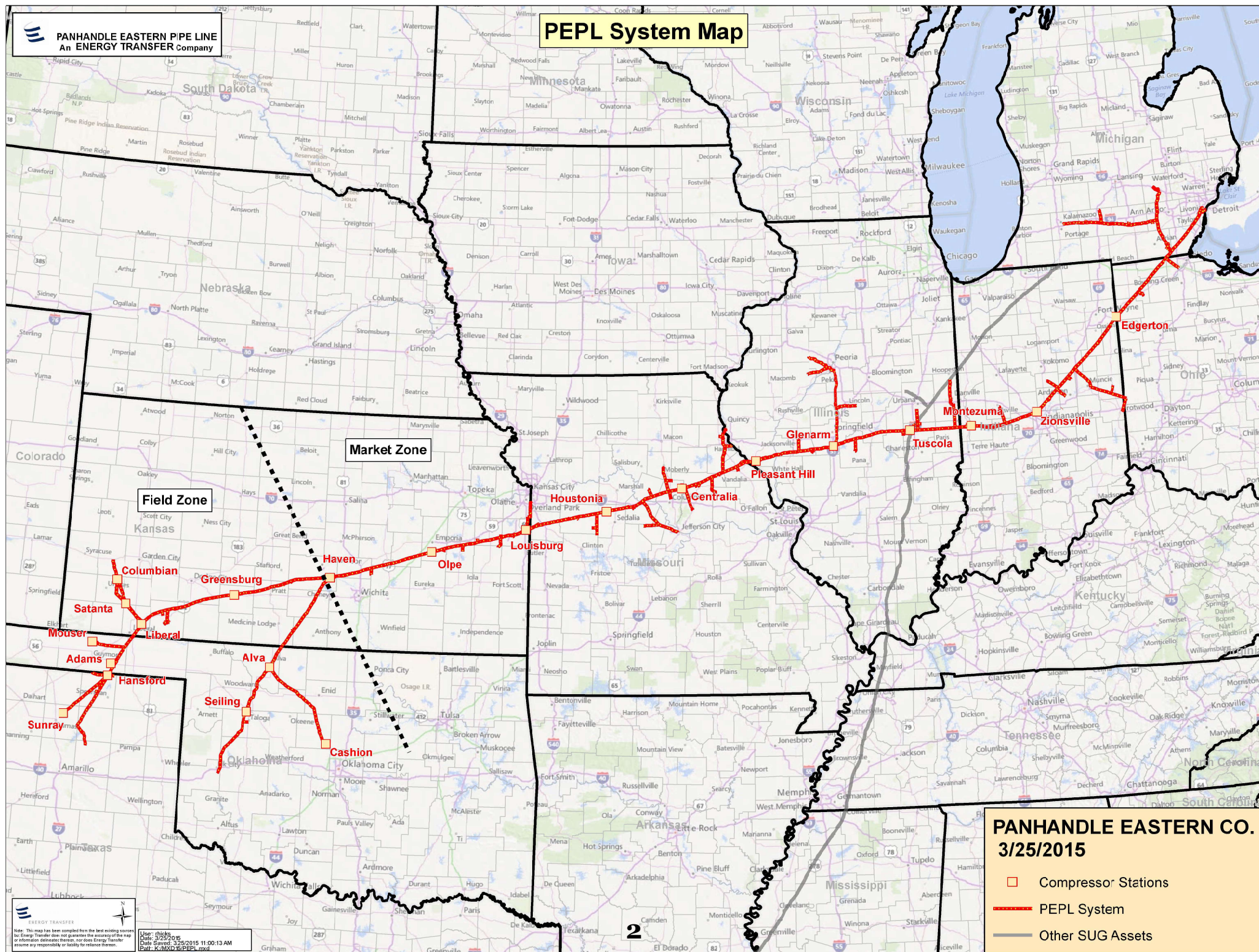
EGI Panhandle Regional Expansion Project

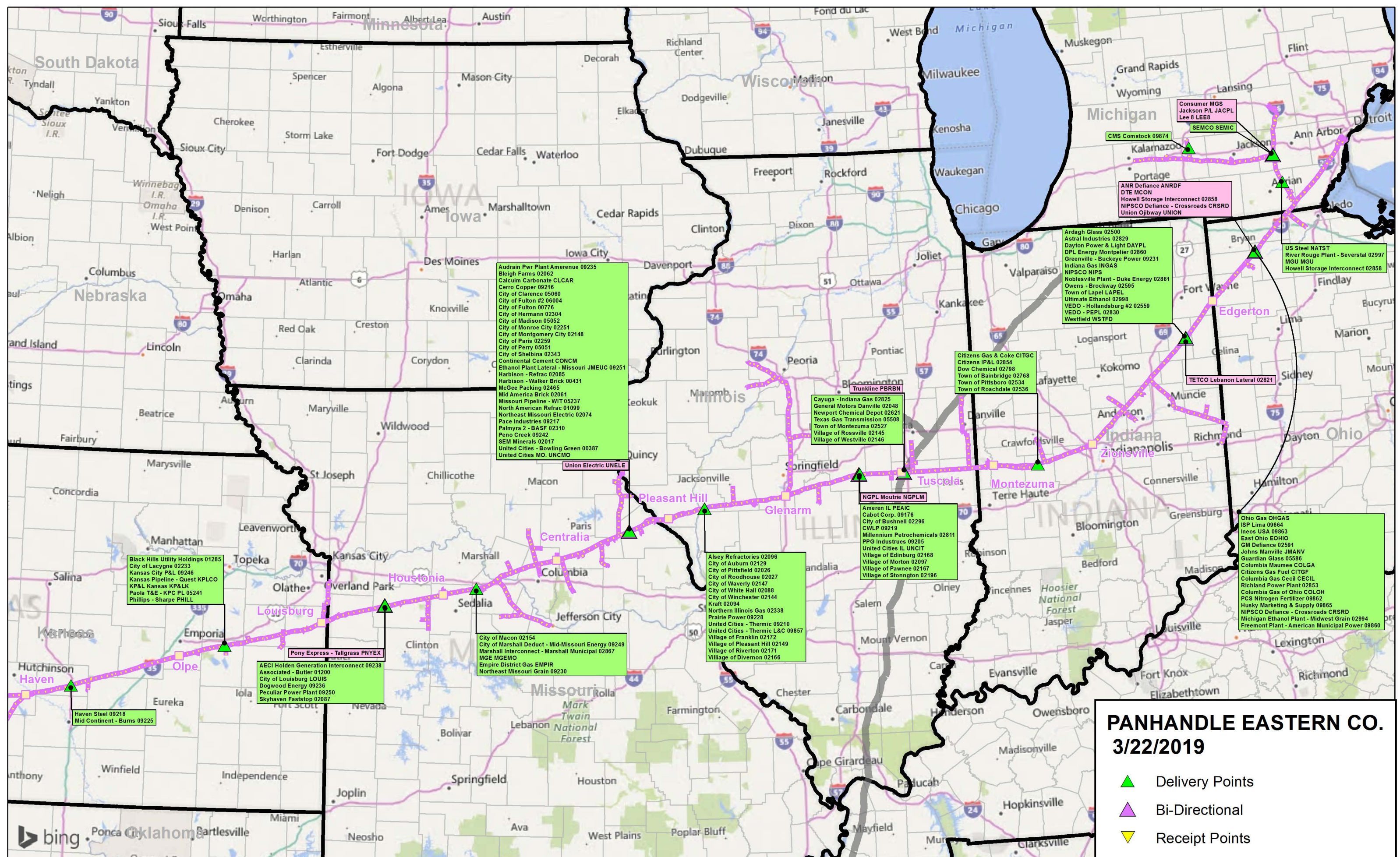
Oral Hearing

FRPO Compendium

November 10, 2023

PEPL System Map





User: rhicks
Date: 3/22/2019
Date Saved: 3/22/2019 1:40:46 PM
Path: K:\MXD19\PEPL - Market Zone.mxd

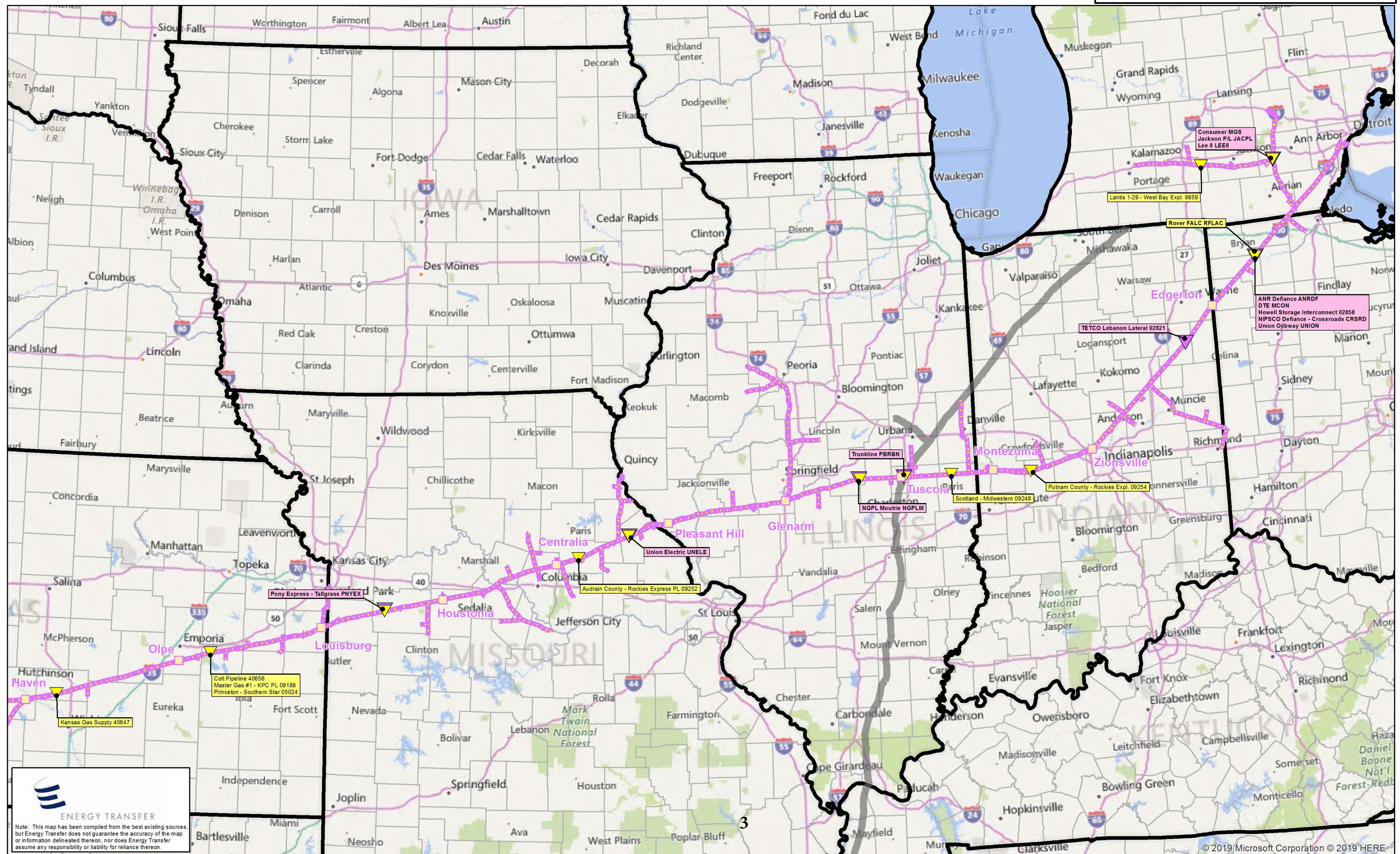


PANHANDLE EASTERN CO.
An ENERGY TRANSFER Co.

Market Zone Map

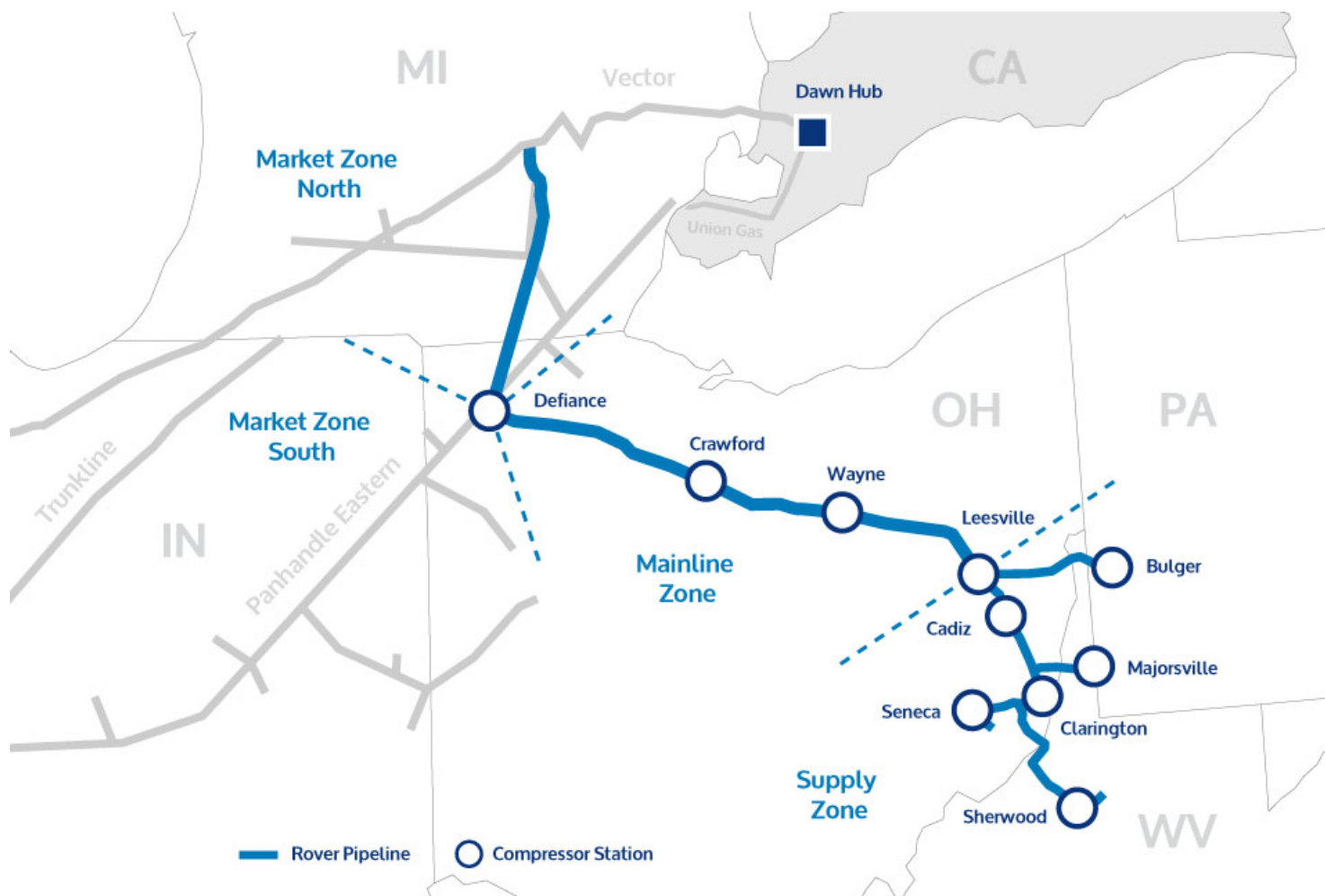


- PANHANDLE EASTERN CO.**
3/22/2019
- ▲ Delivery Points
 - ▲ Bi-Directional
 - ▲ Receipt Points
 - ▲ Compressor Stations
 - PEPL System
 - Other ETE Assets



Note: This map has been compiled from the best existing sources, but Energy Transfer does not guarantee the accuracy of the map or information contained thereon, nor does Energy Transfer assume any responsibility or liability for reliance thereon.

ROVER PIPELINE FROM SUPPLY ZONE



PEPL Unsubscribed Capacity

TSP Name: Panhandle Eastern Pipe Line Company, LP (TSP: 045256641)**Post Date/Time:** 11/01/2023 6:27PM**Eff Gas Day/Time:** 11/01/2023 9:00AM**End Eff Gas Day:** 11/01/2023**Measurement Basis Description:** MMBtu

Below is a list of unsubscribed capacity at receipt locations and delivery locations. Available mainline capacity is listed in a separate posting entitled "Unsubscribed by Segment". Mainline capacity is necessary to transport gas to or away from a receipt location or delivery location. Based on system operating conditions, from time to time, Panhandle may be able to accommodate other requests for capacity. Please contact your Account Manager with any request for capacity.

 Print  Legend

Downloads: CSV EXCEL ODS PDF RTF XML

Loc ↕	Loc Name ↕	Loc Purp Desc ↕	Loc/QTI ↕	Unsubscribed Capacity ↕
41418	ADAMS COMMERCIAL IRRIGATION	Delivery Location	DPQ	3,000
09238	AECI HOLDEN GENERATION INTERCONNECT	Delivery Location	DPQ	108,000
41180	ALEDO GAS TREATING PLANT - ENABLE GAS GATHERING	Receipt Location	RPQ	0
41075	ALEDO PURGE GAS	Delivery Location	DPQ	1,000
02096	ALSEY REFRACTORIES	Delivery Location	DPQ	15
PEAIC	AMEREN ILLINOIS	Delivery Location	DPQ	363,270
13214	ANADARKO LIBERAL RECEIPT	Receipt Location	RPQ	167,250
ANRDF	ANR DEFIANCE	Delivery Location	DPQ	294,000
ANRDF	ANR DEFIANCE	Receipt Location	RPQ	281,619
ARCHR	ARCHER DEMARCATION	Receipt Location	RPQ	2,300

ROVER Unsubscribed Capacity

TSP Name: Rover Pipeline LLC (TSP: 079717714)**Post Date/Time:** 11/01/2023 6:49PM**Eff Gas Day/Time:** 11/01/2023 9:00AM**End Eff Gas Day:** 11/01/2023**Measurement Basis Description:** MMBtu

Print Legend

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Loc ↕	Loc Name ↕	Loc Purp Desc ↕	Loc/QTl ↕	Unsubscribed Capacity ↕
ANRWK	ANR WESTRICK	Delivery Location	DPQ	155,000
70016	BERNE	Receipt Location	RPQ	0
70003	CADIZ-MW	Receipt Location	RPQ	150,000
70017	CADIZ-ORS	Receipt Location	RPQ	50,000
70011	CLARINGTON-EUREKA	Receipt Location	RPQ	58,800
70007	CLARINGTON-OVC	Delivery Location	DPQ	300,000
70007	CLARINGTON-OVC	Receipt Location	RPQ	37,200
70015	COLUMBIA CPG	Delivery Location	DPQ	0
70043	CRAWFORD - UGS	Receipt Location	RPQ	325,000
70013	FIN	Delivery Location	DPQ	365,000
70005	HARMON CREEK	Receipt Location	RPQ	0
70044	IRON BANK	Receipt Location	RPQ	500,000
70047	LOUDON	Delivery Location	DPQ	89,600
70008	MADISON	Receipt Location	RPQ	0
70004	MAJORSVILLE	Receipt Location	RPQ	0
PFALC	PANHANDLE FALCON	Delivery Location	DPQ	345,000
70006	REVOLUTION	Receipt Location	RPQ	445,000
70042	REVOLUTION DELIVERY	Delivery Location	DPQ	12,000

Loc ↕	Loc Name ↕	Loc Purp Desc ↕	Loc/QTl ↕	Unsubscribed Capacity ↕
70012	REX-SENECA	Delivery Location	DPQ	0
70002	SENECA	Receipt Location	RPQ	0
70001	SHERWOOD	Receipt Location	RPQ	0
70009	SUNDANCE	Receipt Location	RPQ	290,000
70045	WICK	Receipt Location	RPQ	300,000

PEPL Unsubscribed Capacity

TSP Name: Panhandle Eastern Pipe Line Company, LP (TSP: 045256641)**Post Date/Time:**11/01/2023 7:00PM**Eff Gas Day/Time:** 11/01/2023 9:00AM**End Eff Gas Day:** 11/01/2023**Measurement Basis Description:** MMBtu

Below is a list of unsubscribed capacity at receipt locations and delivery locations. Available mainline capacity is listed in a separate posting entitled "Unsubscribed by Segment". Mainline capacity is necessary to transport gas to or away from a receipt location or delivery location. Based on system operating conditions, from time to time, Panhandle may be able to accommodate other requests for capacity. Please contact your Account Manager with any request for capacity.

Print Legend

Downloads: CSV EXCEL ODS PDF RTF XML

Loc ↕	Loc Name ↕	Loc Purp Desc ↕	Loc/QTl ↕	Unsubscribed Capacity ↕
12657	SPIVEY - KPC PIPELINE	Receipt Location	RPQ	55,000
SPOON	SPOONEY DEMARCATION	Receipt Location	RPQ	4,100
41412	SUNFLOWER POWER PLANT - MID-KANSAS ELECTRIC	Delivery Location	DPQ	20,000
40524	SUNRAY GAS PLANT - ETC FIELD SERVICES	Receipt Location	RPQ	33,050
41447	SUPERIOR REEDING PLANT	Receipt Location	RPQ	70,000
PEFTP	T-K-O GAS FARM TAPS - PEPL	Delivery Location	DPQ	100
PEIRR	T-K-O GAS IRRIGATION - PEPL	Delivery Location	DPQ	100
TKOIR	T-K-O GAS IRRIGATION - TX / OK - PEPL	Delivery Location	DPQ	12,450
05238	TAGGART ENTERPRISES	Delivery Location	DPQ	100
09223	TALLGRASS GRANT #1	Delivery Location	DPQ	5,500
09223	TALLGRASS GRANT #1	Receipt Location	RPQ	37,750
TEXCO	TEXACO DEMARCATION	Receipt Location	RPQ	7,000
05508	TEXAS GAS TRANSMISSION	Delivery Location	DPQ	25,000
02768	TOWN OF BAINBRIDGE	Delivery Location	DPQ	216
03895	TOWN OF HARDESTY	Delivery Location	DPQ	0
LAPEL	TOWN OF LAPEL	Delivery Location	DPQ	32

Loc ↕	Loc Name ↕	Loc Purp Desc ↕	Loc/QTl ↕	Unsubscribed Capacity ↕
02527	TOWN OF MONTEZUMA	Delivery Location	DPQ	0
02534	TOWN OF PITTSBORO	Delivery Location	DPQ	0
02536	TOWN OF ROACHDALE	Delivery Location	DPQ	0
02438	TOWN OF TALOGA	Delivery Location	DPQ	0
07011	TRANSWESTERN	Receipt Location	RPQ	35,169
ULYSS	ULYSSES DEMARCATION	Receipt Location	RPQ	100,000
UNELE	UNION ELECTRIC DBA AMEREN MISSOURI	Delivery Location	DPQ	82,204
UNION	UNION OJIBWAY - WAYNE COUNTY	Delivery Location	DPQ	30,535
UNION	UNION OJIBWAY - WAYNE COUNTY	Receipt Location	RPQ	132,692

ENBRIDGE GAS INC.

Answer to Interrogatory from
Federation of Rental-housing Providers of Ontario ("FRPO")

INTERROGATORY

Reference:

Exhibit B, Tab 2, Schedule 1, p. 3, 5, 6, 7 and
EB-2016-0186 including Exhibit K2.1 Union_Further Correspondence_20161122

Preamble:

EGI evidence states: Two NPS 12 pipelines ("Detroit River Crossing" or "the crossings") connect the NPS 16 Panhandle Line at Ojibway to the Panhandle Eastern Pipeline System ("Panhandle Eastern")² at the International Border. This interconnection was established in 1947 and is commercially known as Ojibway. The Detroit River Crossing MOP is 2930 kPag.

² Panhandle Eastern Pipe Line Company, LP is owned by Energy Transfer Equity L.P.

We would like to understand more about EGI's review of the potential for increasing supply at Ojibway. During the last major Panhandle Reinforcement proceeding, EB-2016-0186, there was significant evidence regarding Energy Transfer's desire to increase deliveries to Dawn including the potential to obligate at Ojibway. We understand that EGI held discussions with Rover, of which Energy Transfer holds an ownership position, but we are interested in discussions with Energy Transfer who owns the Panhandle Eastern Pipeline.

Question:

Please file EB-2016-0186 Exhibit K2.1

- a) Please file all correspondence (letters, emails, other electronic communication, etc.) between Energy Transfer and Union Gas/Enbridge Gas Inc. since Dec. 1, 2016, that relates to capacity on Panhandle Eastern to and potentially through Ojibway to EGI's Panhandle system.
- b) Did EGI approach Energy Transfer regarding:
 - i) Obligating deliveries as contemplated in Exhibit K2.1?
(1) If not, why not?
 - ii) Increasing capacity across the Detroit River?
(1) If not, why not?

Response

Enbridge Gas does not accept FRPO's interpretation of the Panhandle Reinforcement Project proceeding (EB-2016-0186) in the preamble, specifically the statement that "there was significant evidence regarding Energy Transfer Partners' desire to increase deliveries to Dawn including the potential to obligate at Ojibway". Energy Transfer did not express interest in increasing deliveries at Dawn as part of the Panhandle Reinforcement Project proceeding.¹ Rather, Rover LLC executed contracts for Ojibway to Dawn C1 service that were presented in that same proceeding and has not requested incremental capacity since.

For the reasons above, as undertaking responses from the Panhandle Reinforcement Project proceeding are already a matter of public record, and as it bears no relevance to and would not provide any value to the OEB in the current Project proceeding, Enbridge Gas respectfully declines to file the exhibit requested by FRPO.

a) Please see Attachment 1 to this response for correspondence between Enbridge Gas and Energy Transfer, regarding Energy Transfer's ability to participate in the Request for Proposal (RFP) for delivered service at Ojibway as a supply-side alternative for the proposed Project. Correspondence with Energy Transfer dealing with matters outside of the current Project are not relevant to the current proceeding.

b)

- i. Enbridge Gas has confirmed again that Energy Transfer is not able to obligate deliveries; consistent with previous discussions as contemplated in the Panhandle Reinforcement Project proceeding, as discussed above.

Enbridge Gas developed the RFP for the firm exchange service to be inclusive to ex-franchise shippers with capacity on the PEPL system, in addition to shippers holding firm C1 transportation capacity on the Enbridge Gas Ojibway to Dawn path of the Panhandle Transmission System.

¹ EB-2016-0186, Technical Conference Transcript, Day 2, Page 30, MR. REDFORD: Well, again, so an obligated flow at Ojibway, somebody has to control that into Ojibway. And in our discussions with Rover, they're not willing to do that. In fact, they don't have title to the gas. So ultimately we would have to nominate -- or we would have to buy supply from one of the Rover shippers at Dawn, and then once that was -- that was done, then they would route that supply through Ojibway. They're not -- when you look at -- and we have confirmed this with Rover. Ojibway is not a delivery point on the Rover system. It's not included in their tariff which was filed, and it is confidentially filed with FERC. But they have told us that it is not -- it is not a primary delivery point and it's not -- they did not include it in their secondary delivery points.

Enbridge Gas launched its firm exchange service RFP on September 16, 2021. On September 19, 2021, Enbridge Gas held a virtual meeting with members of Energy Transfer to determine whether they were interested in participating in the RFP, which would provide firm deliveries at Ojibway. Energy Transfer indicated that as a transmission pipeline operator, they transport gas for others and therefore are unable to offer a firm exchange and would not bid on the RFP.

- ii. Please see the response to Exhibit I.FRPO.8 for explanation as to why increasing capacity via the Detroit River Crossings is not a cost-effective alternative.

As discussed in Enbridge Gas's most recent Asset Management Plan, Enbridge Gas is planning to replace the existing NPS 12 Detroit River crossings to provide equivalent capacity, and is currently in discussion with Energy Transfer on a joint project to that effect.

Matt Thomas

Subject: Enbridge RFP
Location: WebEx

Start: Mon 9/20/2021 12:30 PM
End: Mon 9/20/2021 1:30 PM

Recurrence: (none)

Meeting Status: Accepted

Organizer: Reid, John

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

From: Reid, John <John.Reid@energytransfer.com>

Sent: September 17, 2021 2:18 PM

To: Reid, John; Hilary Thompson

Cc: Hill, Bryan D.; Colton, Joey

Subject: Enbridge RFP

When: September 20, 2021 11:30 AM-12:30 PM (UTC-06:00) Central Time (US & Canada).

Where: WebEx

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

-- Do not delete or change any of the following text. --

[Join WebEx meeting](#)

Meeting number (access code): 2531 223 6708 Meeting password: 5cjMmV23Nmt

[Click "Join in WebEx" then click "Call Me" in WebEx to join the audio portion of the meeting](#)

No dialing required and provides your name to the host as an active attendee

Join from a video system or application

Dial [25312236708@ete.webex.com](tel:25312236708)

You can also dial 173.243.2.68 and enter your meeting number. **Tap to join from a mobile device (attendees only)**

[8662055658](tel:8662055658),[25312236708##](tel:25312236708) US Toll Free

[8448277608](tel:8448277608),[25312236708##](tel:25312236708) Canada Toll Free

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If you are a host, [click here](#) to view host information. IMPORTANT NOTICE: Please note that this Webex service allows audio and other information sent during the session to be recorded, which may be discoverable in a legal matter. By joining this session, you automatically consent to such recordings. If you do not consent to being recorded, discuss your concerns with the host or do not join the session.

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.



Meeting Name	: EGI & ETP Call re: Ojibway RFP	Meeting Date	: 2021-09-21
--------------	----------------------------------	--------------	--------------

Location	: Remote via Webex	Next Meeting Date	: N/A
Time	: 12:30 – 1 pm Eastern	Location	: Chatham
Recorded By	: Matt Thomas	Date Issued	: 2020-09-20

Attendees			
<input checked="" type="checkbox"/> Hilary Thompson	<input checked="" type="checkbox"/> Jeff Cadotte	<input checked="" type="checkbox"/> Paul Dhaen	<input checked="" type="checkbox"/> Matt Thomas
<input checked="" type="checkbox"/> John Reid	<input checked="" type="checkbox"/> Bryan Hill	<input checked="" type="checkbox"/> Joey Colton	<input type="checkbox"/>

Description of Item
<p>Purpose of Call: Respond to questions from Energy Transfer Partners re: RFP for Ojibway deliveries launched on Sept 16th</p> <p>ETP inquired about the background of the Ojibway RFP and the capacities outlined in the RFP. EGI clarified that the RFP is being contemplated as an Integrated Resource Planning alternative to provide incremental Panhandle Transmission System capacity.</p> <p>EGI has customers providing gas at Dawn and the firm exchange between Ojibway & Dawn, facilitated via capacity on Panhandle Eastern Pipeline may be as an alternative to constructing facilities between Dawn and Ojibway to provide the equivalent capacity and system benefits.</p> <p>EGI clarified the amounts included in the RFP includes the 37 TJ/d currently contracted by ETP and are not above and beyond the existing contracts consistent with Table 1. ETP indicated that as a transmission pipeline operator they transport gas for others and therefore are unable to offer a firm exchange and will not bid in the RFP.</p>

Table 1 – Ojibway Import Capability

<u>Capacity</u>	<u>Long Term (Annual) [TJ/d]</u>	<u>Short-Term (Winter-Only) [TJ/d]</u>
Total Ojibway Import Capability	115	140
Gas Supply (Included in Design Day)	60	60
C1 (Rover LLC)	37	37
Available for Exchange	18	43
RFP Offering	55	80



November 22, 2016

BY RESS

Ms. Kirsten Walli
Board Secretary
Ontario Energy Board
Suite 2700, 2300 Yonge Street
Toronto, Ontario
M4P 1E4

Dear Ms. Walli:

UNION'S
UPDATE OF "ADDITIONAL
NOTES"

**RE: Union Gas Limited ("Union") - EB-2016-0186 Panhandle Reinforcement Project –
Further Correspondence Request**

ROVER - UNION C

This letter is further to Union Gas Limited's ("Union") letter dated October 28, 2016 to the Ontario Energy Board (the "Board") where Union provided correspondence related to Ojibway to Dawn deliveries. As an update to Union's October 28 letter, Union has attached to this letter further correspondence relating to Ojibway to Dawn deliveries. In particular, the correspondence relates to discussions between Union and Energy Transfer Partners, LP ("ETP") that, as noted by Union in its opening statement at the hearing on November 22, 2016, resulted in an agreement with ETP whereby Union secured capacity on Panhandle Eastern and ETP, on behalf of its affiliate Rover Pipeline, LLC ("Rover"), secured C1 capacity from Ojibway to Dawn. The commitment letter in this regard is included in the attached (page 25 of Attachment 1) and discussed further below.

In addition to the foregoing commitment, Union would also like to note the correspondence dated November 17, 2016 from Rover¹ wherein Rover expressed certain concerns relating to statements made by Union at the Technical Conference held in this matter on October 4, 2016. The correspondence in question is attached hereto (page 4 of Attachment 1). Rover's concerns related to statements made by Union, including that Union may have mislead the Board. Union takes very seriously its relationship with the Board and Union has at no time mislead the Board.

Upon receipt of Rover's November 17 letter, Union immediately communicated with Rover/ETP to discuss Rover's statements and the apparent misunderstandings. Through discussions held on November 17 and 18, 2016, Union provided the full context of its Technical Conference statements. In particular, Union advised ETP with respect to the transcript pages referenced by Rover as follows:

¹ Rover is represented by its affiliate ETP and while Rover provided correspondence representatives of ETP signed the correspondence and negotiated on Rover's behalf.

1. With respect to transcript page 72, Union's reference was to the fact that Union and ETP did not have an agreement. Both parties continued to evaluate the means to come to agreement including terms of contracting. In fact, Union did not accept the July 28, 2016 proposal from ETP based on proposed contracting terms;
2. With respect to transcript page 117, Union was asked specifically if it was having discussions with Rover Pipeline. It was not clear to Union whether it would be Rover or ETP holding Ojibway to Dawn capacity on Union's system. Union, however, recognized that it would be one of the ETP affiliated companies or ETP itself;
3. With respect to transcript page 118, Union was objecting to answering a specific request in the Technical Conference by another party on procedural and relevance grounds. This was not intended to limit commercial discussions ongoing between Union and ETP/Rover.
4. With respect to transcript page 69, this exchange started at page 66 and referenced Exhibit B.APPrO.3a. Union confirmed with ETP the maximum firm annual import limits of 115 TJ/d. Union stated at page 69 that Union was not able to secure additional capacity. ETP understood that what was not clarified at the Technical Conference was that Panhandle Eastern was limiting its sales to match the Ojibway import capacity and as a result Union was not awarded additional capacity. Existing renewable contracts and the capacity contracted with Rover Pipelines took up the remaining Ojibway import capacity. Union acknowledged that total capacity on the Panhandle Eastern system could be available up to 185 TJ/d as is shown in the correspondence filed in this proceeding.

Other than those documents above, no other specific transcript references were raised by ETP in Union's discussions with ETP.

As set out in the email correspondence from Beth Hickey, Senior Vice President Interstate of ETP, dated November 22, 2016 (also attached hereto at page 37 of Attachment 1), ETP no longer has any concerns about the comments described in the November 17 Rover letter.

Union also notes that discussions with ETP were continuing in early November well in advance of the November 17 Rover letter. Rover's November 17 letter provided an opportunity for the parties to clarify their positions. However, it was not the driver of a negotiated result.

In particular, as indicated by Union in its opening statement, the agreement provides the benefit of post 2019 certainty for meeting Design Day demand on the Panhandle System through long-term commitments to firm transportation to Ojibway. The agreement also returns Union to previous levels of firm capacity, including the added benefit of having the Right of First Refusal on all capacity which allows Union to maintain firm Ojibway supply in the future. In particular, relative to the parties positions set out in the previously filed October 28 correspondence, the agreement specifically provides:

1. An 8 year term that is shorter than the 9 to 15 year commitments requested by ETP (see October 28 filed correspondence pages 35 and 51)²
2. All capacity originates at Panhandle Field Zone (including capacity currently originating at the Trunkline Field Zone in the Gulf of Mexico), thereby improving landed cost at Ojibway (see October 28 correspondence page 35)

In exchange for the foregoing benefits Energy Transfer Partners obtained commitments for long-term capacity to Dawn to facilitate 35 TJ/d of their contracts on the Rover Pipeline.

Should you have any questions on the above or would like to discuss in more detail, please contact me at 519-436-5473.

Yours truly,

Karen Hockin
Manager, Regulatory Initiatives

Encl.

c.c.: Zora Crnojacki, Board Staff
Mark Kitchen, Union Gas
Charles Keizer, Torys
All Intervenors (EB-2016-0186)

² Union would not accept capacity on Panhandle Eastern for a term of 10 years or greater.

Shorts, Chris

From: Shorts, Chris
Sent: September-27-16 1:18 PM
To: john.reid@energytransfer.com
Subject: Called

John I called to discuss the Ojibway to Dawn capacity issue and I know you are on the road. If you get a chance give me a call...

Thanks

Chris



Chris Shorts

Director, Business Development & Upstream Regulation

cshorts@uniongas.com

Office (519) 436-4668 Cell (519) 365-0536

fax (519) 436-5461

Shorts, Chris

From: Shorts, Chris
Sent: November-01-16 10:45 PM
To: john.reid@energytransfer.com
Subject: FW: Panhandle Reinforcement Project - Response to request for information (FRPO)
Attachments: UNION_ResponseToRequestforInfo_FRPO_20161028.pdf

John, as per our voice mails, here is the response we filed to the motion at the OEB...I will call you tomorrow to follow up...I apologize for the size of the file...
Chris

Good afternoon. Union filed responses to two information requests received in the October 20, 2016 motion filed on behalf of FRPO, and a copy is attached.

Union also filed interrogatory questions today regarding CAEPLA-PLC's evidence as filed October 21, 2016. CAEPLA-PLC responses are due November 14, 2016.

If you have any questions, please contact Chris Gagner or me.

Thanks

Karen

The OEB heard the Motion filed by FRPO yesterday. After hearing brief submissions from the parties in attendance, the Board panel issued a decision from the bench granting the Motion to FRPO and requiring Union to provide the information as requested. The Board panel said intervenors should be afforded the opportunity to test the evidence and alternatives specifically and that access to data not be a barrier to the process.

Shorts, Chris

From: Reid, John <John.Reid@energytransfer.com>
Sent: November-17-16 9:11 AM
To: Shorts, Chris
Cc: Redford, Jim; Hickey, Beth A.; Erwin, Kevin
Subject: Union Panhandle Reinforcement Project
Attachments: 11172016 - Letter to Union re Panhandle Reinforcement Project.pdf

Please find attached a letter regarding Union's Panhandle Reinforcement Project.

John Reid | Sr. Director – Business Development
Energy Transfer | 1300 Main St. | Houston, TX 77002
P: 713.989.7143 | C: 713.444.1483 | IM: johnreid126
Email: john.reid@energytransfer.com

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.



ROVER PIPELINE
An ENERGY TRANSFER Company

November 17, 2016

Chris Shorts
Director, Business Development
and Upstream Regulation
Union Gas Limited
50 Keil Drive North
Chatham, ON N7M 5M1
Canada

VIA EMAIL

Re: Union Gas Limited's Panhandle Reinforcement Project (the "Project")

Dear Chris:

I am sending this letter as a follow-up to our phone conversation yesterday concerning Union's comments at the October 4, 2016 Technical Conference held with respect to the Project. To the point, the transcript of the Technical Conference reveals that Union made comments that mischaracterizes our discussions and negotiations for capacity on Union. As you know, we have been attempting to obtain C1 capacity on Union from Ojibway to Dawn for over 18 months. Indeed, we have submitted formal proposals in pursuit of that capacity. However, Union representatives have made comments on the record suggesting that, for example, Rover is "still wondering" about contracting for Union capacity [Transcript at p. 72]; or that Union has had conversations with "Energy Transfer, the Panhandle folks", but not with, "quote-unquote, Rover" [Transcript at p. 117] -- though Rover is part of Energy Transfer. We also see where Union refused on the record to discuss with us other service options to Dawn on the Ojibway line. [Transcript at p. 118] Further, contrary to Union's contention that it has not been provided any incremental capacity option by us [Transcript at p. 69], we have expressly made proposals from 57,000 to 95,000 Dth/d of capacity to Ojibway (for as short as 10 years) -- as evidenced by the documents Union recently produced in the subject proceeding.¹

We are concerned that Union has not been dealing in good faith with us and that Union is misleading the Ontario Energy Board ("OEB"). Accordingly, let me reiterate that we have been and continue to be seriously desirable of obtaining C1 capacity from Ojibway to Dawn for up to 75,000 Dth/d effective from the Rover in-service date (currently expected to be 11-1-2017) for a period of up to 15 years. Further, if a delivery commitment is required for the supply on the 75,000 Dth/d, Rover would be happy to pursue such, including by providing the avenue for

¹ These examples are not comprehensive of the inaccuracies we are finding in the Technical Conference Transcript.



ROVER PIPELINE
An ENERGY TRANSFER Company

volume for
Union to work with the Rover shippers to accommodate that.

We stand ready, as we have for the last 18 months, to discuss this with you.

In addition, we request that Union make a filing with the OEB correcting its mischaracterizations of our efforts to obtain the subject capacity, and provide Rover with a copy of that filing. We realize that a hearing is scheduled for November 22-24, 2016; therefore, your immediate attention in this regard is required. In the event Union fails or refuses to formally correct the record by Monday, November 21, 2016, please be advised that we may pursue other avenues to inform the OEB of the mischaracterizations, including directly providing a copy of this letter.

Sincerely,

John Reid
Sr. Director – Business Development
Rover Pipeline LLC

cc: Jim Redford

Shorts, Chris

From: Reid, John <John.Reid@energytransfer.com>
Sent: November-17-16 10:13 AM
To: Shorts, Chris
Subject: FW: Union Panhandle Reinforcement Project

We would be available now until 10am CST, and then from 11am CST onwards. I am tied up this afternoon, so this morning would be best.

From: Reid, John
Sent: Thursday, November 17, 2016 9:00 AM
Subject: RE: Union Panhandle Reinforcement Project

Chris,

Would you and Jim be available for a call with Beth and me this morning?

From: Shorts, Chris [mailto:CShorts@uniongas.com]
Sent: Thursday, November 17, 2016 8:27 AM
To: Reid, John <John.Reid@energytransfer.com>
Subject: RE: Union Panhandle Reinforcement Project

I received the letter and left you a voice mail....Chris

From: Reid, John [mailto:John.Reid@energytransfer.com]
Sent: November-17-16 9:11 AM
To: Shorts, Chris
Cc: Redford, Jim; Hickey, Beth A.; Erwin, Kevin
Subject: Union Panhandle Reinforcement Project

Please find attached a letter regarding Union's Panhandle Reinforcement Project.

John Reid | Sr. Director – Business Development
 Energy Transfer | 1300 Main St. | Houston, TX 77002
 P: 713.989.7143 | C: 713.444.1483 | IM: johnreid126
 Email: john.reid@energytransfer.com

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Redford, Jim

From: Redford, Jim
Sent: November 18, 2016 7:07 AM
To: Baker, Steve
Cc: Simpson, David
Subject: FW: Union Panhandle Reinforcement Project
Attachments: 11172016 - Letter to Union re Panhandle Reinforcement Project.pdf

We received a letter from ETP yesterday that states that we have mischaracterized our discussions with them on the Ojibway path. We have been in touch with Regulatory and will be responding. We are reviewing the response to Rover today and are likely to file our response (and their letter) with the OEB.

John Reid called Chris to discuss their issues and to let him know that a letter was coming. Beth Hickey called me to do the same.

We do not believe that we have mischaracterized our discussions. To your point on this proceeding, we will take the opportunity at the hearing to clarify a complex set of negotiations and discussions with ETP.

Jim Redford
 Vice President, Business Development,
 Storage & Transmission
 519-436-4577

From: Reid, John [<mailto:John.Reid@energytransfer.com>]
Sent: November 17, 2016 9:11 AM
To: Shorts, Chris
Cc: Redford, Jim; Hickey, Beth A.; Erwin, Kevin
Subject: Union Panhandle Reinforcement Project

Please find attached a letter regarding Union's Panhandle Reinforcement Project.

John Reid | Sr. Director – Business Development
 Energy Transfer | 1300 Main St. | Houston, TX 77002
 P: 713.989.7143 | C: 713.444.1483 | IM: johnreid126
 Email: john.reid@energytransfer.com

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Shorts, Chris

From: Reid, John <John.Reid@energytransfer.com>
Sent: November-18-16 1:07 PM
To: Shorts, Chris; Hickey, Beth A.
Cc: Redford, Jim
Subject: RE: Call

3:00pm CST works for me.

From: Shorts, Chris [<mailto:CShorts@uniongas.com>]
Sent: Friday, November 18, 2016 11:51 AM
To: Reid, John <John.Reid@energytransfer.com>; Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Cc: Redford, Jim <JRedford@uniongas.com>
Subject: Call

John/Beth, Jim and I are meeting at 1 today and then have a couple of meetings but would like to set up a call with you at around 3 pm your time....does that work?

Thanks

Chris



Chris Shorts
 Director, Business Development & Upstream Regulation
cshorts@uniongas.com
 Office (519) 436-4668 Cell (519) 365-0536
 fax (519) 436-5461

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Redford, Jim

From: Baker, Steve
Sent: November 20, 2016 12:03 PM
To: Redford, Jim
Cc: Hopper, Darlene
Subject: Re: PANHANDLE DISCUSSIONS

Categories: Important

We should talk - not sure I follow this - they say they could obligate supply but we need to bid for supply from River shippers? How does/would that work? When we bid for supply at Dawn it is just supply - we don't know or care how a producer or shopper gets the gas there - so I don't understand what ETP is actually offering or how this would be workable

So if directed by the OEB, we would have to contract for 75/d of supple from a rover shipper and then ETP would obligate at Ojibway - not sure this is a good deal

Let's discuss

Sent from my iPhone

On Nov 20, 2016, at 10:15 AM, Redford, Jim <JRedford@uniongas.com> wrote:

We teleconferenced with ETP/Rover (Beth and John) late Friday afternoon to discuss their letter.

- Rover is not interested in supporting expansion facilities within Union's system and would be satisfied with the existing capacity available at prevailing C1 rates (about 36 TJ/d) at a 15 year term.
- ETP also offered us 23 TJ/d of capacity from Panhandle FZ to Ojibway on a term less than 10 years (possibly could do 5 year term). This would replace the capacity we did not have ROFR rights on (and would protect supply if the Emera deal did not extend past October 31, 2019).
- Rover could obligate deliveries through Ojibway if we were directed to pursue by the OEB. We would need to bid for Dawn supply from Rover shippers and Rover would then route gas first through Ojibway (up to 75 mmcf/d Rover contract). My sense is that we would not get a Dawn price but the next best option at Ojibway (Panhandle FZ), particularly if the producers know that we have the obligation in place.

We need to respond to the Rover letter tomorrow morning. Would like to discuss recommendation with you.

Jim Redford, P. Eng.
 Vice President, Business Development,
 Storage & Transmission
 Union Gas Limited | A Spectra Energy Company
 50 Keil Drive North | Chatham, ON N7M 5M1
 Direct Tel: 519.436.4577 Cell: 519-365-0510

<image001.jpg>

Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-21-16 9:34 AM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim
Subject: Re: Call

Categories: Red Category

Hey guys,
 1-2 est works best for John and i today. Will that work for you?

Thanks
 Beth.

On Nov 18, 2016, at 6:06 PM, Shorts, Chris <CShorts@uniongas.com> wrote:

We really appreciate the conversation as it provided needed clarity...we look forward to talking Monday...
 Chris

From: Reid, John [mailto:John.Reid@energytransfer.com]
Sent: November-18-16 2:52 PM
To: Shorts, Chris; Hickey, Beth A.
Cc: Redford, Jim
Subject: RE: Call

I sent a meeting invite with a call in number.

Thanks

From: Shorts, Chris [mailto:CShorts@uniongas.com]
Sent: Friday, November 18, 2016 1:39 PM
To: Reid, John <John.Reid@energytransfer.com>; Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Cc: Redford, Jim <JRedford@uniongas.com>
Subject: RE: Call

Thanks John, did you want me to call your office?

From: Reid, John [mailto:John.Reid@energytransfer.com]
Sent: November-18-16 1:07 PM
To: Shorts, Chris; Hickey, Beth A.
Cc: Redford, Jim
Subject: RE: Call

3:00pm CST works for me.

From: Shorts, Chris [mailto:CShorts@uniongas.com]
Sent: Friday, November 18, 2016 11:51 AM

To: Reid, John <John.Reid@energytransfer.com>; Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Cc: Redford, Jim <jredford@uniongas.com>
Subject: Call

John/Beth, Jim and I are meeting at 1 today and then have a couple of meetings but would like to set up a call with you at around 3 pm your time....does that work?

Thanks

Chris

<image001.jpg>

Chris Shorts

Director, Business Development & Upstream Regulation

cshorts@uniongas.com

Office (519) 436-4668 Cell (519) 365-0536

fax (519) 436-5461

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Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-21-16 10:54 PM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim
Subject: Re: Agreement

Chris,

I have one slight add to the letter as I can't get hold of our ferc attorney. Could you please add "and pursuant to the PEPL ferc gas tariff" after the line about each parties management approvals?

Thanks

Beth.

On Nov 21, 2016, at 10:34 PM, Shorts, Chris <CShorts@uniongas.com> wrote:

Beth, as per our conversations, please see the attached for you to sign and return. We have the necessary internal approvals....

Thanks

Chris

<image001.jpg>

Chris Shorts

Director, Business Development & Upstream Regulation

cshorts@uniongas.com

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Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-21-16 3:51 PM
To: Shorts, Chris; Redford, Jim
Cc: Reid, John; Hickey, Beth A.
Subject: Discussion this afternoon

Hi guys,

I spoke to Luke in Dallas. We would have an agreement in principal and would agree to rescind our letter if you can get to a 10 yr term on your pepl portfolio.

Let me know your thoughts or if you want to get on another call.

Thanks,

Beth.

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Shorts, Chris

From: Shorts, Chris
Sent: November-21-16 4:22 PM
To: Hickey, Beth A.
Cc: Redford, Jim; Reid, John
Subject: Re: Discussion this afternoon

Beth we are tied up for a bit and will call you when we can have a chance to discuss

Sent from my iPhone

On Nov 21, 2016, at 3:50 PM, Hickey, Beth A. <Beth.Hickey@energytransfer.com> wrote:

Hi guys,

I spoke to Luke in Dallas. We would have an agreement in principal and would agree to rescind our letter if you can get to a 10 yr term on your pepl portfolio.

Let me know your thoughts or if you want to get on another call.

Thanks,

Beth.

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-21-16 5:47 PM
To: Shorts, Chris
Cc: Redford, Jim; Reid, John
Subject: Re: Discussion this afternoon

Hey guys. We are good to go per our latest conversation. 8 yr term on both sides. Please forward emails as discussed.

Thanks
 Beth.

On Nov 21, 2016, at 4:34 PM, Shorts, Chris <CShorts@uniongas.com> wrote:

Beth, can we have a call now? The same number we used?

From: Hickey, Beth A. [mailto:Beth.Hickey@energytransfer.com]
Sent: November-21-16 3:51 PM
To: Shorts, Chris; Redford, Jim
Cc: Reid, John; Hickey, Beth A.
Subject: Discussion this afternoon

Hi guys,

I spoke to Luke in Dallas. We would have an agreement in principal and would agree to rescind our letter if you can get to a 10 yr term on your pepl portfolio.

Let me know your thoughts or if you want to get on another call.

Thanks,

Beth.

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Redford, Jim

From: Baker, Steve
Sent: November 21, 2016 6:35 PM
To: Redford, Jim
Subject: Re: PANHANDLE CAPACITY

Categories: Important

Did you have the discussion with them on obligation to deliver? Give me shout on cell and we can discuss

Thx Jim

Sent from my iPhone

On Nov 21, 2016, at 6:23 PM, Redford, Jim <JRedford@uniongas.com> wrote:

We reached an agreement on 8 years capacity with Panhandle Eastern for 57,000 Dth/d from Panhandle Field Zone to Ojibway. At \$0.42/Dth rate, the contract values will be approximately C\$94 million (US\$73.5 million). 37 Dth/d will start November 1, 2017. The remaining 21 Dth/d will start November 1, 2019. All contracts will have ROFR Rights.

This secures capacity for our Panhandle System beyond 2019 and is complementary to the Proposed Panhandle Reinforcement Project. I am asking your approval to execute a letter of intent for this transportation capacity with Panhandle Eastern.

We have also agreed to an 8 year C1 Ojibway to Dawn transportation contract with renewal rights. I will ask Patti Pielt to prepare a contract for execution by Rover Pipeline. This will also be included in the Letter of Intent.

Jim Redford, P. Eng.
 Vice President, Business Development,
 Storage & Transmission
 Union Gas Limited | A Spectra Energy Company
 50 Keil Drive North | Chatham, ON N7M 5M1
 Direct Tel: 519.436.4577 Cell: 519-365-0510

<image001.jpg>

Shorts, Chris

From: Shorts, Chris
Sent: November-21-16 10:38 PM
To: Hickey, Beth A. (Beth.Hickey@energytransfer.com)
Cc: john.reid@energytransfer.com; Redford, Jim
Subject: Opening Statement

Beth, we are still working on the opening statement that has been broadened yet we have very limited time on the agenda. Jim and I and others are still drafting but we will send a copy likely tomorrow morning if that is OK...
 Chris



Chris Shorts
 Director, Business Development & Upstream Regulation
cshorts@uniongas.com
 Office (519) 436-4668 Cell (519) 365-0536
 fax (519) 436-5461

Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-22-16 12:03 AM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim
Subject: Fwd: Agreement

Some additional nits on our entities name

Panhandle Eastern Pipe Line Company, LP.
 Rover Pipeline LLC.

And Energy Transfer Partners, LP.

From: "Shorts, Chris" <CShorts@uniongas.com>
Date: November 21, 2016 at 10:34:14 PM EST
To: "Hickey, Beth A. (Beth.Hickey@energytransfer.com)"
 <Beth.Hickey@energytransfer.com>, "john.reid@energytransfer.com"
 <john.reid@energytransfer.com>
Cc: "Redford, Jim" <JRedford@uniongas.com>
Subject: Agreement

Beth, as per our conversations, please see the attached for you to sign
 and return. We have the necessary internal approvals....

Thanks
 Chris

<image001.jpg>

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cshorts@uniongas.com
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 fax (519) 436-5461

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Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-22-16 12:03 AM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim
Subject: Re: Agreement

That should work. I have also sent a separate email with a couple of corrections on our legal entity names.
 Thanks
 Beth.

On Nov 21, 2016, at 11:26 PM, Shorts, Chris <CShorts@uniongas.com> wrote:

Beth we can add that but I am not near a scanner so can I send it to you in the morning after I make the change and get Jim to sign.?

Sent from my iPhone

On Nov 21, 2016, at 10:54 PM, Hickey, Beth A. <Beth.Hickey@energytransfer.com> wrote:

Chris,
 I have one slight add to the letter as I can't get hold of our ferc attorney. Could you please add "and pursuant to the PEPL ferc gas tariff" after the line about each parties management approvals?

Thanks
 Beth.

On Nov 21, 2016, at 10:34 PM, Shorts, Chris <CShorts@uniongas.com> wrote:

Beth, as per our conversations, please see the attached for you to sign and return. We have the necessary internal approvals....
 Thanks
 Chris

<image001.jpg>

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Redford, Jim

From: Baker, Steve
Sent: November 22, 2016 8:13 AM
To: Redford, Jim
Subject: RE: PANHANDLE CAPACITY

Categories: Important

Thx Jim - Approved

Steve

From: Redford, Jim
Sent: November-21-16 6:23 PM
To: Baker, Steve
Subject: PANHANDLE CAPACITY
Importance: High

We reached an agreement on 8 years capacity with Panhandle Eastern for 57,000 Dth/d from Panhandle Field Zone to Ojibway. At \$0.42/Dth rate, the contract values will be approximately C\$94 million (US\$73.5 million). 37 Dth/d will start November 1, 2017. The remaining 21 Dth/d will start November 1, 2019. All contracts will have ROFR Rights.

This secures capacity for our Panhandle System beyond 2019 and is complementary to the Proposed Panhandle Reinforcement Project. I am asking your approval to execute a letter of intent for this transportation capacity with Panhandle Eastern.

We have also agreed to an 8 year C1 Ojibway to Dawn transportation contract with renewal rights. I will ask Patti Pielt to prepare a contract for execution by Rover Pipeline. This will also be included in the Letter of Intent.

Jim Redford, P. Eng.
 Vice President, Business Development,
 Storage & Transmission
 Union Gas Limited | A Spectra Energy Company
 50 Keil Drive North | Chatham, ON N7M 5M1
 Direct Tel: 519.436.4577 Cell: 519-365-0510



Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-22-16 9:15 AM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim; Hickey, Beth A.
Subject: Re: Agreement
Attachments: ETP Union.pdf

Chris and Jim,
 See attached executed agreement.
 Thanks,
 Beth.

From: Shorts, Chris <CShorts@uniongas.com>
Sent: Tuesday, November 22, 2016 7:02:55 AM
To: Hickey, Beth A.
Cc: Reid, John; Redford, Jim
Subject: RE: Agreement

See attached revision...

From: Hickey, Beth A. [mailto:Beth.Hickey@energytransfer.com]
Sent: November-22-16 12:03 AM
To: Shorts, Chris
Cc: Reid, John; Redford, Jim
Subject: Fwd: Agreement

Some additional nits on our entities name

Panhandle Eastern Pipe Line Company, LP.
 Rover Pipeline LLC.
 And Energy Transfer Partners, LP.

From: "Shorts, Chris" <CShorts@uniongas.com>
Date: November 21, 2016 at 10:34:14 PM EST
To: "Hickey, Beth A. (Beth.Hickey@energytransfer.com)"
 <Beth.Hickey@energytransfer.com>, "john.reid@energytransfer.com"
 <john.reid@energytransfer.com>
Cc: "Redford, Jim" <JRedford@uniongas.com>
Subject: Agreement

Beth, as per our conversations, please see the attached for you to sign
 and return. We have the necessary internal approvals....
 Thanks
 Chris

<image001.jpg>

Chris Shorts
Director, Business Development & Upstream Regulation
cshorts@uniongas.com
Office (519) 436-4668 Cell (519) 365-0536
fax (519) 436-5461

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uniongas
A Spectra Energy Company

Filed: 2016-11-22
EB-2016-0186
Attachment 1
Page 25 of 37

Beth Hickey
Senior Vice President Interstate
Energy Transfer Partners, LP

November 21, 2016

Beth,

Based on our recent telephone conversations, Union Gas Limited ("Union") and Energy Transfer Partners, LP ("ETP") agree to commit to the following terms subject to each parties respective management approval and pursuant to the PEPL FERC gas tariff.

Under the proposal below, Union and ETP would commit to the following:

Proposal Detail

To ensure Union can retain full Right of First Refusal (ROFR) on its entire Panhandle Eastern Pipe Line Company, LP ("PEPL") Firm Transportation portfolio, Union commits to contract the following from PEPL:

- Renew 25,000 Dth/d of current renewable firm transportation capacity from PEPL FZ to Ojibway effective November 1, 2017 for a term of 8 years at a max tariff rate
- Renew 10,000 Dth/d of current renewable firm transportation capacity from PEPL FZ to Ojibway effective November 1, 2017 for a term of 8 years at max tariff rate.
- Contract 22,000 Dth/d of new firm renewable transportation capacity from PEPL FZ to Ojibway effective November 1, 2019 for a term of 8 years at max tariff rate.

To ensure ETP and more specifically Rover Pipeline, LLC ("Rover") can secure the necessary firm transportation capacity on Union from Ojibway to Dawn, Rover commits to the following:

- Contract 35,000 GJ/d of new firm renewable transportation capacity from Ojibway to Dawn effective November 1, 2017 for a term of 8 years at posted C1 tolls,

Sincerely,

Jim Redford
Vice President, Business Development Storage and Transmission
Union Gas Limited

Acknowledged and Agreed to this 22 day of Nov, 2016

Energy Transfer Partners, LP

Shorts, Chris

From: Shorts, Chris
Sent: November-22-16 9:16 AM
To: Hickey, Beth A. (Beth.Hickey@energytransfer.com)
Cc: john.reid@energytransfer.com; Redford, Jim
Subject: Union Opening
Attachments: Opening Statement - Panhandle.docx

Beth, as I indicated, for your interest is the opening statement summarizing our case and updating the parties on the arrangement we have agreed to....Jim and I will be reading this into the record starting at 9:30 this morning.

Chris



Chris Shorts

Director, Business Development & Upstream Regulation

cshorts@uniongas.com

Office (519) 436-4668 Cell (519) 365-0536

fax (519) 436-5461

Opening Statement Panhandle Reinforcement Project Oral Hearing

Good morning. Mr. Shorts and myself will be providing an overview of the project. We will be taking you through each of the five points on the screen.

Let me start with Need.

Beginning the winter of 2017/2018, there is no pipeline capacity available to attach firm in-franchise customers in the areas served by Union's Panhandle Transmission System. Union is already having to say "no" to incremental firm load growth requests from contract rate customers and, without the proposed facilities, will need to refuse service requests from general service customers, including residential customers.

Union has significant unfulfilled demand for firm service on the Panhandle System. In addition to existing unfulfilled demand, Union has received incremental requests for firm service since this Application was filed with the Board. The demand for firm service comes from all market segments and geographic areas across Union's Panhandle System. Union is in the process of contracting for the forecasted 2017 contract rate class demand and already has indications of further strong demand for 2018.

Reinforcing the Panhandle Transmission System is a necessary investment in order to attach any customers, even general service customers, and is fundamental to the economic well-being of this specific area of the Province and, more broadly, Ontario. The Proposed Project:

- 1. Provides competitive and affordable energy supply;**
- 2. Assists to retain industry and business, and attract new industry and business;**
- 3. Helps to encourage economic growth; and**
- 4. Will create employment opportunities.**

Without further capacity, economic development in the region will be negatively impacted, businesses will choose to locate to other jurisdictions where affordable natural gas is available and existing businesses will not proceed with expansions nor will new businesses be attracted to this area resulting in lost job opportunities and homeowners will need to pay for more expensive energy options.

Let me now address the second item: Why Union's current Panhandle System cannot accommodate that Need and how the Proposed Project satisfies that Need:

The Panhandle Transmission System consists of two pipelines – the NPS 16 pipeline which runs from Dawn to Ojibway and the NPS 20 pipeline which runs from Dawn to the Sandwich Compressor Station, then ultimately connects into the NPS 16 pipeline at the NPS 16/20 Junction.

The NPS 16 pipeline serves Chatham-Kent and the northern half of Essex County; while the NPS 20 pipeline serves the southern half of Essex County. The City of Windsor is served by both the NPS 16 pipeline and the NPS 20 pipeline. The flow from the NPS 20 pipeline is controlled at Sandwich to ensure that the primary feed into Windsor is the NPS 16 pipeline. This operation retains the greatest amount of

capacity on the NPS 20 pipeline to serve the Leamington / Kingsville market.

Approximately 90 % of the Design Day Panhandle System demand is served from the Dawn Hub where Union's storage and gas supply is located. Approximately 10% of the Design Day Panhandle System demand is served using Union's firm gas supply for sales service customers, which arrives at Ojibway via Panhandle Eastern.

With respect to Ojibway, the ability to import gas into Union's system is limited by the ability of the local market to consume that gas and the ability of the existing transmission system and Sandwich Compressor Station to move the remainder back towards Dawn. In the summer, the firm import capability is limited to 115 TJ/d and in the winter, the firm import capability is limited to 140 TJ/d.

At Ojibway, Union relies on 60 TJ/d of gas supply to meet Panhandle Transmission System demand on Design Day. Union has historically contracted for capacity to import gas at Ojibway, providing diversity to its gas supply portfolio. Since 2013, Union's firm Ojibway imports have had the effect of deferring reinforcement of the Panhandle Transmission System.

Growth in both the Windsor and Leamington/Kingsville markets requires additional flow on the NPS 20 pipeline that cannot be delivered by the existing facilities. To increase capacity, higher pressure gas must be carried further west on the NPS 20 pipeline toward the market area.

The proposed NPS 36 pipeline, which replaces a portion of the existing NPS 16 pipeline, will increase the pressure along the existing NPS 20

pipeline, in turn, raising the inlet pressure to the existing laterals that service the distribution markets, and increasing firm capacity of the Panhandle Transmission System.

I'll turn it over to Mr. Shorts to address the fourth item: What other alternatives were considered.

As part of its pre-filed evidence, Exhibit A, Tab 6, Union considered a number of alternatives, including other new facility designs; additional supply at Ojibway combined with new facilities; and LNG/CNG alternatives. All of these alternatives were less economic than the Proposed Project and/or were not practical solutions. For the most part, these alternatives rely on 60 TJ/d of firm supply arriving at Ojibway on a Design Day. Union is comfortable that this level of supply sourced through Panhandle Eastern provides the appropriate level of diversity to its gas supply portfolio while supporting the western end of the Panhandle System.

To that end, Union and Panhandle Eastern have continued discussions with respect to capacity and the required contracting terms. Union has consistently been interested in ensuring that 60 TJ/d in total firm transportation capacity is controlled by Union at Ojibway. As part of the 60 TJ/d today, Union relies on a delivered service from a third party of 21 TJ/d to provide firm supply to Ojibway. The contract for the delivered service expires on October 31, 2019 and does not have renewal rights. Union has noted that this 21 TJ/d of delivered supply may not be available after October 31, 2019. Without the delivered supply, it will create a situation where Design Day demand cannot be satisfied.

As an update, Union has very recently agreed to contract for 23 TJ/d of firm transportation to Ojibway on Panhandle Eastern starting November 1, 2019 to provide certainty post 2019. Union will also renew its 37 TJ/d of existing transportation contracts with Panhandle Eastern effective November 1, 2017. All of this capacity includes ROFR, Right of First Refusal, rights. This secures 60 TJ/d of long-term firm transportation to Ojibway to support the western end of the Panhandle System – and puts Union back in the position we have been in since 2012. This contracting arrangement is consistent with Union’s proposal in this proceeding.

As can be seen in the communications filed as part of this proceeding, Rover Pipeline has been interested in contracting for transportation capacity on Union’s system from Ojibway to Dawn since 2015. I can also report that Rover Pipeline will be contracting for the remaining 35 TJ/d of existing capacity on Union’s system from Ojibway to Dawn through a long-term renewable C1 transportation contract. Rover Pipeline will be using this capacity to provide its shippers with a delivered service to Dawn. This contract increases the committed capacity from Ojibway to Dawn on Union’s system to the full 115 TJ/d described earlier.

Let me now turn to: Why additional imports at Ojibway are not a viable option.

It has been suggested that more supply at Ojibway is a pipeline capacity solution. Union does not support that notion and does not believe it is prudent. As stated earlier, Union supports 60 TJ/d of Ojibway deliveries in the sales service gas supply portfolio.

Let me start by saying that, the lack of liquidity at Ojibway does not support purchasing supply at that point. There is limited flow at this trans-shipment point between two pipeline systems. There are a limited number of counterparties to do business with. And there is a lack of transparency at Ojibway as it is not a reported trading point.

The only way to obligate supply at Ojibway is for Union to control the supply, similar to how Union controls 90% of the supply for the Panhandle Transmission System that comes from Dawn. Union can control supply to Ojibway by contracting for firm transportation capacity on Panhandle Eastern or through a firm delivered service – such as a delivered supply service.

Union has discussed the issue of obligated flow through Ojibway with Rover Pipeline and while Rover Pipeline would consider such an arrangement for up to 35 TJ/d, Union would still be required to control the supply by purchasing from Rover shippers at Dawn. The agreements associated with an obligation arrangement would be complex.

This would, in effect, limit Union to purchasing supply from only Rover shippers in a much larger Dawn market. Our view is that Rover shippers will price supply to reflect Union's next best option, which for an obligation at Ojibway, would be supply delivered from the Mid-Continent, more specifically Panhandle Field Zone. This supply would be priced at a premium, significantly higher than Dawn supply as we have noted in our pre-filed evidence and in information responses.

In fact, Union has had experience in markets with very few supply options. Prior to building the Burlington Oakville Pipeline, Union relied on a delivered service from third parties. The price of that

service increased three-fold as Union's alternatives for supply became limited.

There is also some uncertainty that supply will be available from Rover shippers at Dawn to support any obligated deliveries at Ojibway. The Rover Pipeline Project remains targeted for an in-service date of November 1, 2017 to Vector/Dawn. However, it is unclear at this point what the utilization will be at November 1, 2017, assuming the Rover Pipeline is constructed on-time, particularly as producers ramp up production to fill their capacity, build midstream assets to connect to the Rover Pipeline and seek premium markets served by the Rover Pipeline, including the Gulf Coast. Union does not control the Rover supply to Dawn and therefore this would create significant price and availability risk.

With respect to the suggestion of securing 175 TJ/d of supply at Ojibway, Union cannot support this suggestion. 175 TJ/d represents 35% of Union's total sales service gas supply. A commitment of this size would significantly reduce diversity in Union's gas supply portfolio. Dawn purchases and the ability to contract other paths (such as delivered services or Michigan supply) would be reduced to less than 20 TJ/d in a portfolio that is nearly 500 TJ/d; eliminating flexibility currently built into Union's gas supply plan. 175 TJ/d would amount to a significant commitment to the Mid-Continent purchases at Panhandle Field Zone which are at a premium to Dawn and other sources.

For all of these reasons, Union does not support an increase in reliance on firm Ojibway supply, whether that be an additional 35 TJ/d or a total of 175 TJ/d, to satisfy the demands of the growing

Panhandle System market. The Proposed Project eliminates the uncertainty surrounding incremental obligated supply through Ojibway and locks in costs for our customers – in other words, the Proposed Project effectively manages price and availability risk while meeting the growing needs of our customers.

Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-22-16 9:19 AM
To: Shorts, Chris
Cc: Redford, Jim; Reid, John; Hickey, Beth A.
Subject: Re: Discussions

Chris,
 I agree with your statement in the attached email below.
 Nothing in this email shall deem to waive ETP's rights in this matter or future matters.

Thanks,
 Beth.

From: Shorts, Chris <CShorts@uniongas.com>
Sent: Monday, November 21, 2016 9:36:01 PM
To: Hickey, Beth A.
Cc: Redford, Jim; Reid, John
Subject: RE: Discussions

Beth, based on our discussions, can you please confirm that the following conveys your thoughts about your letter and reply accordingly.

That based on conversations with Union on Nov 17 and Nov 18, in which Rover understands the basis of statements made at the technical conference, Energy Transfer no longer has any concerns related to the comments included in the letter from Rover to Union dated Nov 17, 2016 and retracts those concerns included in said letter.

Thanks
 Chris

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Shorts, Chris

From: Shorts, Chris
Sent: November-22-16 10:10 AM
To: 'Hickey, Beth A.'
Cc: Redford, Jim; Reid, John
Subject: RE: Discussions

Thanks for getting back to me....Chris

From: Hickey, Beth A. [mailto:Beth.Hickey@energytransfer.com]
Sent: November-22-16 9:19 AM
To: Shorts, Chris
Cc: Redford, Jim; Reid, John; Hickey, Beth A.
Subject: Re: Discussions

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That based on conversations with Union on Nov 17 and Nov 18, in which Rover understands the basis of statements made at the technical conference, Energy Transfer no longer has any concerns related to the comments included in the letter from Rover to Union dated Nov 17, 2016 and retracts those concerns included in said letter.

Thanks
 Chris

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

Shorts, Chris

From: Hickey, Beth A. <Beth.Hickey@energytransfer.com>
Sent: November-22-16 5:46 PM
To: Shorts, Chris; Redford, Jim
Cc: Reid, John; Hickey, Beth A.
Subject: Fw: ETP follow up

Chris and Jim,

Thank you for the multiple discussions over the past few days that have helped John and myself better understand the context of your comments during the technical conference. As stated in our last call, Energy Transfer no longer has any concerns about the comments described in our letter dated Nov 17, 2016 and retracts our concerns included in that communication. In specific, we understand and agree that Union has been dealing with us in good faith and, in our opinion, has not been misleading the OEB.

Please do not hesitate to contact me should you wish to discuss further.

Regards,
Beth.

Private and confidential as detailed [here](#). If you cannot access hyperlink, please e-mail sender.

ENBRIDGE GAS INC.

Answer to Interrogatory from
Federation of Rental-housing Providers of Ontario ("FRPO")

INTERROGATORY

Reference:

Exhibit B, Tab 2, Schedule 1, p. 3, 5, 6, 7 and
EB-2016-0186 including Exhibit K2.1 Union_Further Correspondence_20161122

Preamble:

EGI evidence states: The Panhandle System's ability to accept supply at Ojibway is limited to 115 TJ/d in the summer and 140 TJ/d in the winter.

Question:

Please confirm that these values are exactly the same as those provided in the Panhandle Reinforcement Project.

- a) In an Excel spreadsheet, please provide the data from which the summer and winter values in this proceeding were derived (ideally with working formulae showing the resulting values).

Response

Confirmed.

Please note, the Ojibway to Dawn path capability is typically calculated when a new long-term firm transportation contract is requested, or during contract renewals. There have been no long-term firm transport requests on Ojibway to Dawn since the 2016 Panhandle Reinforcement Project, therefore Enbridge Gas has not re-calculated these capacities since then.

Upon receipt of FRPO's interrogatory request Enbridge Gas undertook to review these values using the most recent information from the previous 5 years. The results of that review indicate that the Panhandle System's ability to accept supply at Ojibway has declined to:

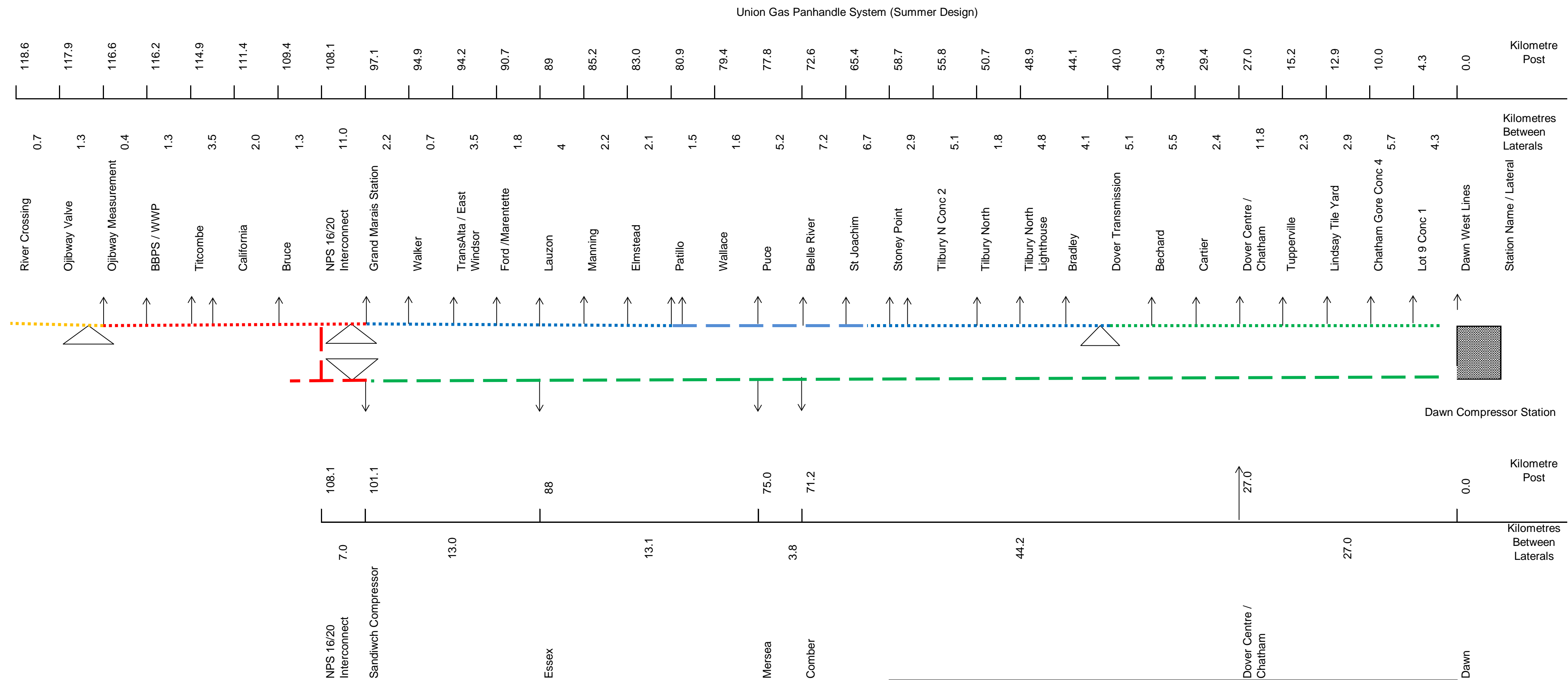
- Summer: 108 TJ/d,
- Winter: 126 TJ/d

Importantly, although the historical observed minimum market has declined, design day requirements have not.

For the Excel spreadsheet relied upon to complete this review please see Attachment 1 to this response. A summary is set out in Table 1 below:

Table 1

	Winter (GJ/d)	Summer (GJ/d)
Lowest Market [Month]	46,000 [November]	20,000 [August]
Compression	<u>80,000</u>	<u>88,000</u>
Total:	126,000	108,000



Design Day Demands

	(GJ/d)
Ojibway Measurement	2306
BBPS / WWP	0
Titcombe	2618
California	1428
Bruce	945
Grand Marais Station	3587
Walker	6365
TransAlta / East Windsor	0
Ford / Marentette	107
Lauzon	1676
Manning	1376
Elmstead	100
Patillo	483
Wallace	10
Puce	157
Belle River	276
St Joachim	45
Stoney Point	85
Tilbury N Conc 2	35
Tilbury North	190
Tilbury North Lighthouse	10
Bradley	2
Bechard	5
Cartier	3
Tupperville	230
Lindsay Tile Yard	1
Chatham Gore Conc 4	3
Lot 9 Conc 1	8
Dawn West Lines	16311
Dawn	56723
Dover Centre / Chatham	8006
Comber	8283
Mersea	707
Essex	754
Sandwich Compressor	1188
Total	114023

Design Day Pressure

(kPag)
2386
2381
2325
2229
2155
2154
2150
2153
2144
2142
2138
2137
2134
2133
2133
2130
2128
2122
2115
2115
2112
2109
2106
2104
2083
2075
2074
2072
2069
4930
4966
5018
5025
5046
2125

System Capacity

Total System Capacity including Ojibway Supplies	115,000
Fuel	977
Total Requirements	115,000
Surplus	0

(GJ/d)

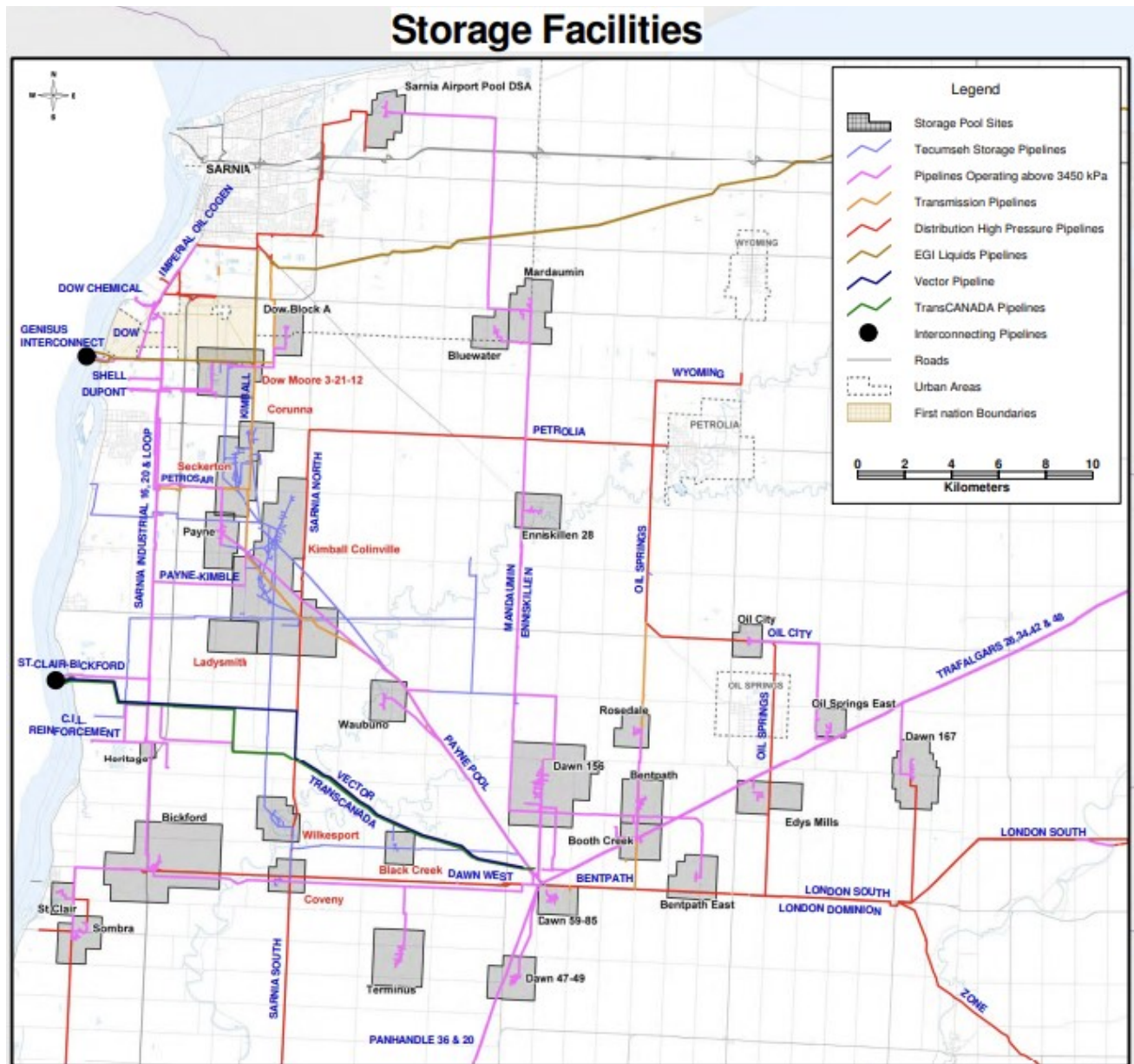
Compressor Station

STATION	Sandwich
Power Available (kW)	2.8
Power Required (kW)	2.8
Pressure (kPag)	2125
Discharge (kPag)	5068
Compression Ratio	2
Flow (GJ/d)	74040
Daily Fuel (GJ/d)	977

SUMMER DESIGN DAY
PANHANDLE SYSTEM

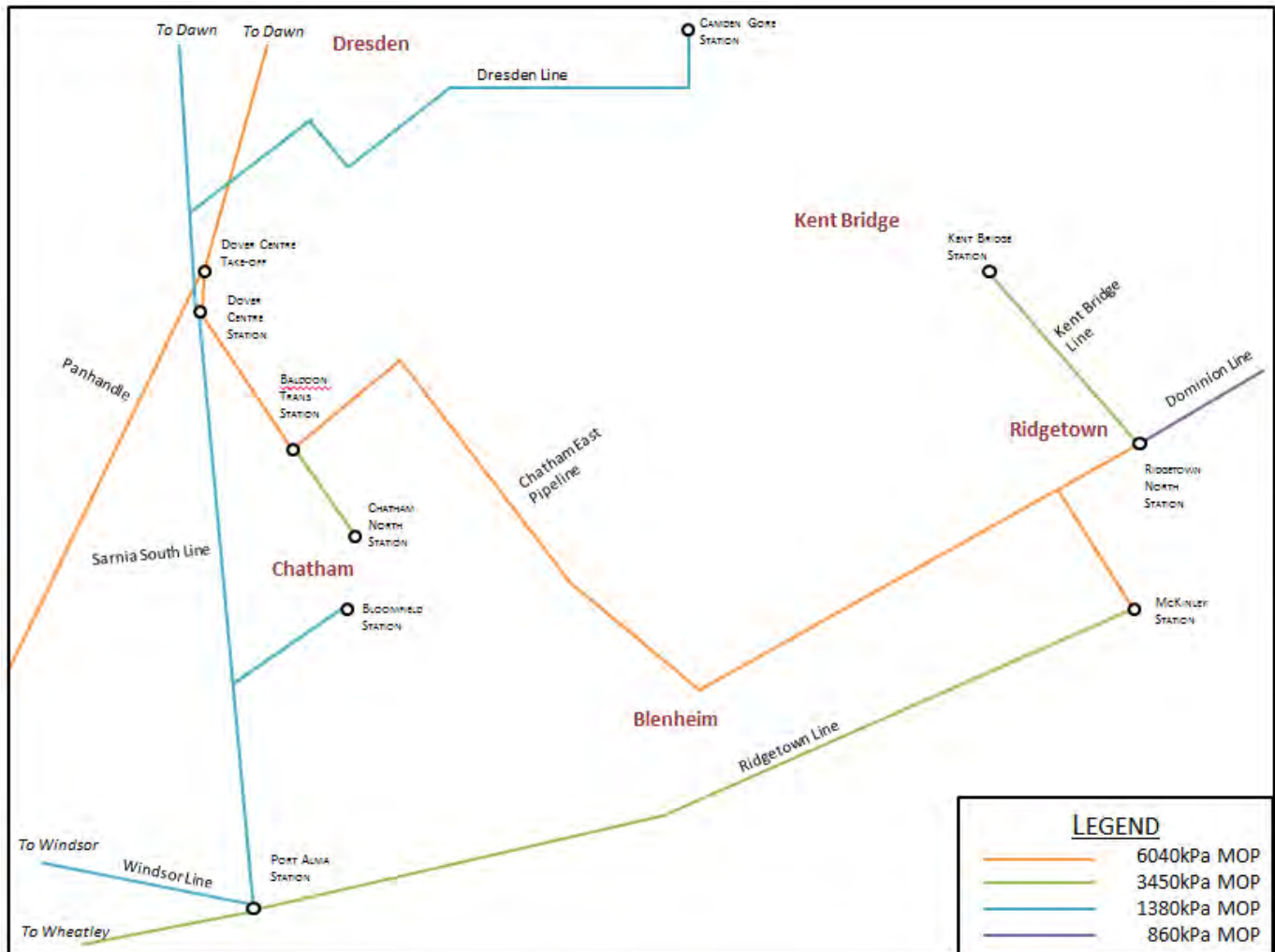
2016

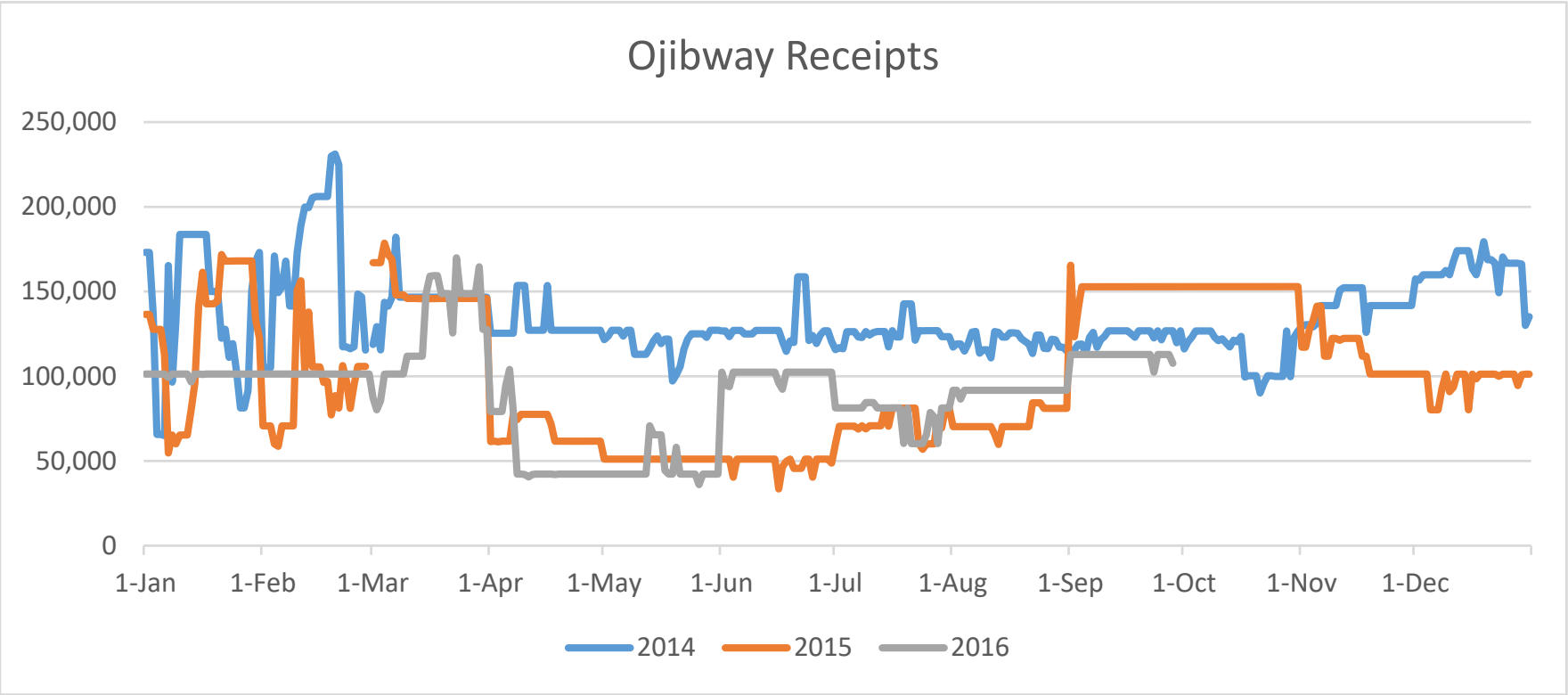
EGI FACILITIES FROM FRANCHISE MAP



Map of Existing Chatham-Kent Pipeline Network

Chatham-Kent Rural Project





Source: <https://www.enbridgegas.com/storage-transportation/operational-information/gas-day-summary>

ENBRIDGE GAS INC.

Answer to Interrogatory from
Federation of Rental-housing Providers of Ontario ("FRPO")

INTERROGATORY

Reference:

Exhibit B, Tab 1, Schedule 1, p. 2-3, 7, 11, 13 including Table 1 & Attachments 1 & 2

Preamble:

EGI evidence states: Natural gas is uniquely suited to the greenhouse sector. It is used to heat greenhouses and to supply the carbon dioxide requirements ("CO₂") of the growing plants. A common practice within the greenhouse sector is to capture the CO₂ that would normally be emitted into the atmosphere upon combustion of natural gas and use it within the greenhouse where it is consumed by the growing plants, resulting in faster growth and increased production.

Question:

Please provide the information in Attachment 1, including the flows requested in IR#4 above, with the addition of:

- a) The proposed 19 km of NPS 36 with demands for:
 - i) Winter 2023/24
 - ii) Winter 2030/31 (using Table 1 demands)
- b) The proposed 12 km of NPS 16 with demands for:
 - i) Winter 2023/24
 - ii) Winter 2030/31 (using Table 1 demands)
- c) Both the proposed 19 km of NPS 36 and the 12km of NPS 16 with demands for:
 - i) Winter 2023/24
 - ii) Winter 2030/31 (using Table 1 demands)

Response

The Company is interpreting FRPO's reference to "Attachment 1" to be Exhibit B, Tab 2, Schedule 1, Attachment 1. Please note that while Attachments 1-4 discussed below are marked as confidential in nature, that is solely for internal document control purposes and thus can be disregarded for the purposes of this response.

- a)
 - i. Please see Attachment 1 to this response for the proposed 19 km of NPS 36 with demand for Winter 2023/2024.
 - ii. The proposed 19 km of NPS 36 with demand for Winter 2030/2031 cannot be provided as requested as the Company's hydraulic model returned an infeasible result due to extremely low system pressures, and the model would not balance. In this scenario, there is a growing shortfall from Winter 2023/2024 to Winter 2029/2030 of 244 TJ/day. When the 19 km of NPS 36 is added in Winter 2030/2031 as suggested, the shortfall drops to 67 TJ/d.
- b)
 - i. Please see Attachment 2 to this response for the proposed 12 km of NPS 16 with demand for Winter 2023/2024.
 - ii. The proposed 12 km of NPS 16 with demands for Winter 2030/2031 cannot be provided as requested as the Company's hydraulic model returned an infeasible result due to extremely low system pressures, and the model would not balance. In this scenario, similar to a) ii. above, there is a growing shortfall from Winter 2023/2024 to Winter 2029/2030 of 244 TJ/day. When this 12 km of NPS 16 is added in Winter 2030/2031 as proposed, the shortfall drops to 226 TJ/d.
- c)
 - i. Please see Attachment 3 to this response for the proposed 19 km of NPS 36 and the proposed 12 km of NPS 16 with demand for Winter 2023/2024.
 - ii. Please see Attachment 4 to this response for the proposed 19 km of NPS 36 and the proposed 12 km of NPS 16 with demands for Winter 2030/2031.

W2023/2024 Proposed 19 km of NPS 36 Schematic and Summary Table

Panhandle Transmission System

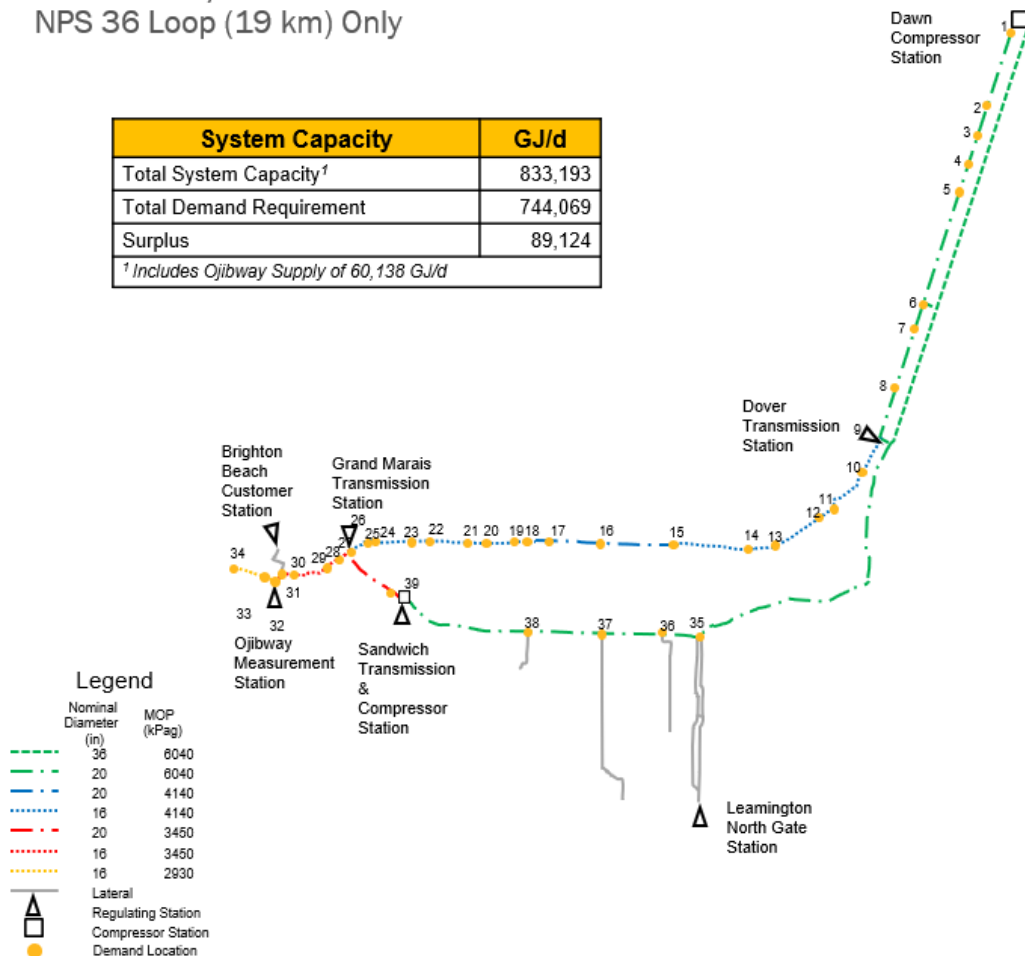
Winter Design Day Schematic

Winter 2023/2024

NPS 36 Loop (19 km) Only



System Capacity	GJ/d
Total System Capacity ¹	833,193
Total Demand Requirement	744,069
Surplus	89,124
¹ Includes Ojibway Supply of 60,138 GJ/d	



W23/24	Station Name	Kilometre Post (km)	Demand (GJ/d)	Pressure (kPag)
	1 Dawn / Dawn West Lines	0	17742	5999
	2 Tolloch & Mandaumin	4.3	0	5980
	3 Chatham Gore Conc 4	10	0	5956
	4 Lindsay Tile Yard	12.9	37	5944
	5 Tupperville	15.2	3694	5935
	6 Dover Centre	27	83976	5877
	7 Cartier	29.4	0	5868
	8 Bechard	34.9	1927	5848
	9 Dover Transmission	40	0	5828
	10 Bradley	44.1	0	3918
	11 T. N. Lighthouse	48.9	187	3712
	12 Tilbury North TO	50.7	3995	3632
	13 Tilbury Conc 2	55.8	0	3384
	14 Stoney Point	58.7	1223	3238
	15 St Joachim	65.4	494	2892
	16 Belle River	72.6	3731	2764
	17 Puce	77.8	2336	2673
	18 Wallace	79.4	32	2640
	19 Patillo	80.9	5139	2614
	20 Elmstead	83	1537	2469
	21 Manning	85.2	7523	2313
	22 Lauzon TO	88.9	50000	2051
	23 Ford Marentette TO	90.7	3253	2012
	24 TransAlta / East Windsor TO	94.2	36242	1942
	25 Walker	94.9	36971	1939
	26 Grand Marais	97.1	26671	1937
	27 NPS 16/20 Interconnect	108.1	0	1940
	28 Bruce	109.4	3797	1930
	29 California	111.4	14812	1891
	30 Titcombe	114.9	13451	1850
	31 Brighton Beach and WWP	116.2	72314	1829
	32 Ojibway Measurement	116.6	30723	1842
	33 Ojibway Valve	117.9	0	1867
	34 River Crossing	118.6	0	1910
	35 Comber	71.2	181251	4980
	36 Mersea	75	43029	4909
	37 Kingville	80	78083	4840
	38 Essex	88.1	6014	4797
	39 Sandwich Transmission	101.1	13881	2013
Total			744069	

CONFIDENTIAL

W23/24 NPS 36 Loop Only	Throughput	Direction	Requested Pressure
Location	GJ/d	Flow	kPag
Dawn Supply	683931	Westerly	
Dover Transmission to NPS 16	172544	Westerly	
Dover Transmission to NPS 20	404010	Westerly	
Leamington North Gate Station	20372	South	3783
Grand Marais Station	19879	Westerly	
Sandwich Station	95632	Westerly	
Ojibway Measurement to Windsor	60138	North/South	
Detroit River Crossing (Ojibway Supply)	60138	Easterly	

W2023/2024 Proposed 12 km of NPS 16 Schematic and Summary Table

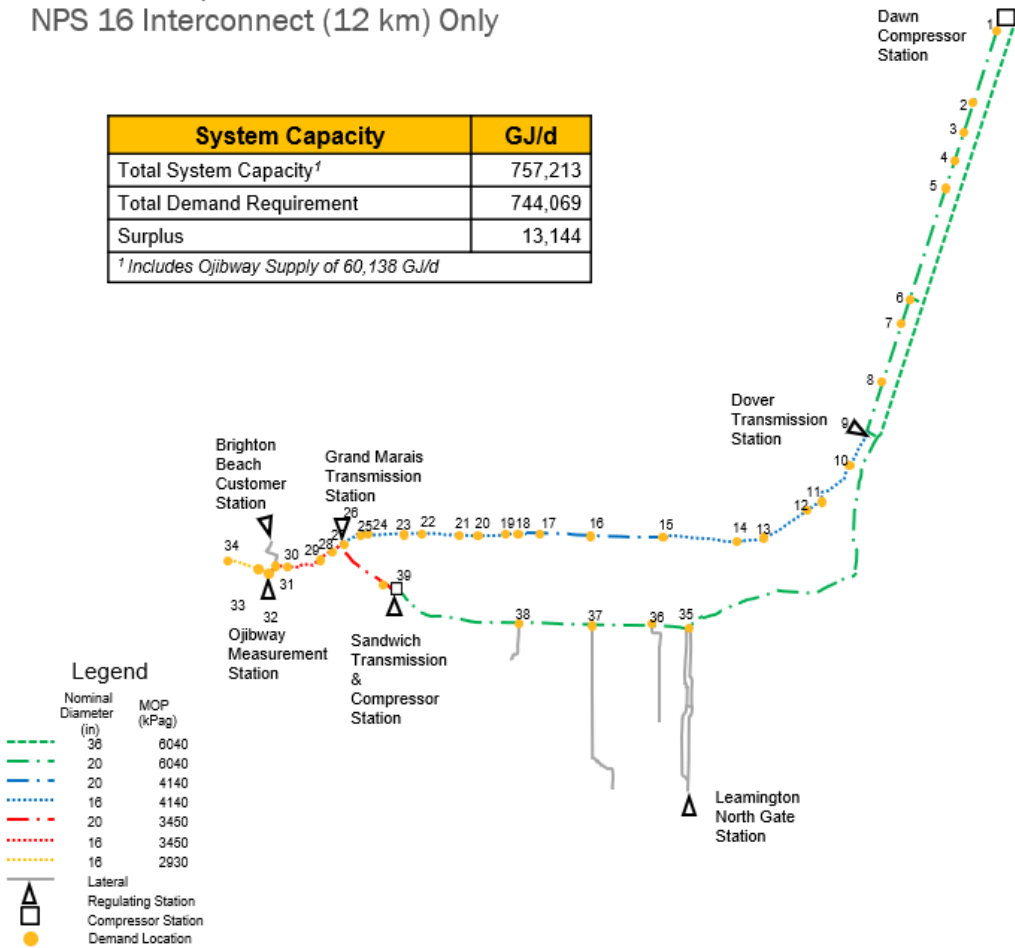
Panhandle Transmission System

Winter Design Day Schematic
Winter 2023/2024
NPS 16 Interconnect (12 km) Only



System Capacity	GJ/d
Total System Capacity ¹	757,213
Total Demand Requirement	744,069
Surplus	13,144

¹ Includes Ojibway Supply of 60,138 GJ/d



W23/24	Station Name	Kilometre Post (km)	Demand (GJ/d)	Pressure (kPag)
1	Dawn / Dawn West Lines	0	17742	5999
2	Tolloch & Mandaumin	4.3	0	5981
3	Chatham Gore Conc 4	10	0	5959
4	Lindsay Tile Yard	12.9	37	5947
5	Tupperville	15.2	3694	5939
6	Dover Centre	27	83976	5884
7	Cartier	29.4	0	5875
8	Bechar	34.9	1927	5856
9	Dover Transmission	40	0	5837
10	Bradley	44.1	0	3918
11	T. N. Lighthouse	48.9	187	3712
12	Tilbury North TO	50.7	3995	3632
13	Tilbury Conc 2	55.8	0	3385
14	Stoney Point	58.7	1223	3238
15	St Joachim	65.4	494	2892
16	Belle River	72.6	3731	2765
17	Puce	77.8	2336	2673
18	Wallace	79.4	32	2641
19	Patillo	80.9	5139	2615
20	Elmstead	83	1537	2470
21	Manning	85.2	7523	2314
22	Lauzon TO	88.9	50000	2052
23	Ford Marentette TO	90.7	3253	2013
24	TransAlta / East Windsor TO	94.2	36242	1943
25	Walker	94.9	36971	1940
26	Grand Marais	97.1	26671	1938
27	NPS 16/20 Interconnect	108.1	0	1940
28	Bruce	109.4	3797	1931
29	California	111.4	14812	1891
30	Titcombe	114.9	13451	1851
31	Brighton Beach and WWP	116.2	72314	1830
32	Ojibway Measurement	116.6	30723	1843
33	Ojibway Valve	117.9	0	1868
34	River Crossing	118.6	0	1910
35	Comber	71.2	181251	3578
36	Mersea	75	43029	3429
37	Kingsville	80	78083	3266
38	Essex	88.1	6014	3205
39	Sandwich Transmission	101.1	13881	2013
Total			744069	

CONFIDENTIAL

W23/24 Interconnect Only	Throughput	Direction	Requested Pressure
Location	GJ/d	Flow	kPag
Dawn Supply	683931	Westerly	
Dover Transmission to NPS 16	172544	Westerly	
Dover Transmission to NPS 20	404010	Westerly	
Leamington North Gate Station	20372	South	2624
Grand Marais Station	19879	Westerly	
Sandwich Station	95604	Westerly	
Ojibway Measurement to Windsor	60138	North/South	
Detroit River Crossing (Ojibway Supply)	60138	Easterly	

W2023/2024 Proposed 19 km of NPS 36 and the 12km of NPS 16 Schematic and Summary Table

Panhandle Transmission System

Winter Design Day Schematic

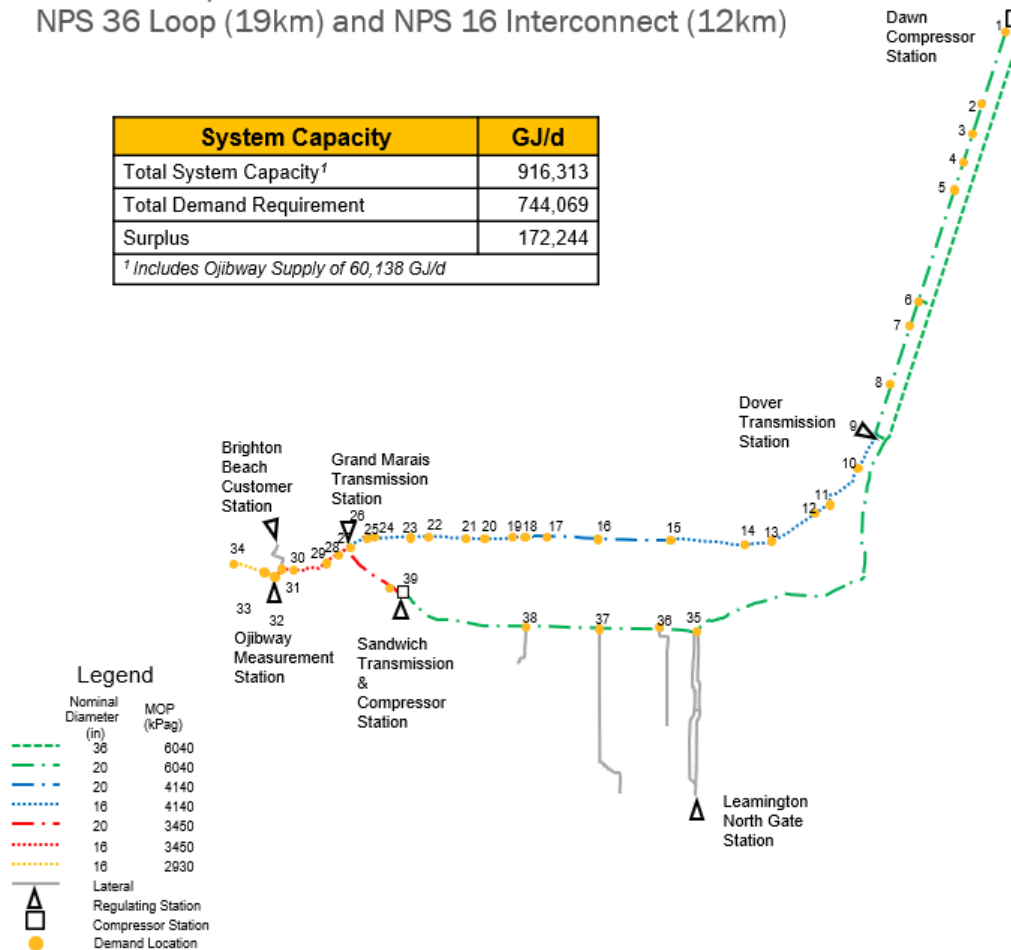
Winter 2023/2024

NPS 36 Loop (19km) and NPS 16 Interconnect (12km)



System Capacity	GJ/d
Total System Capacity [†]	916,313
Total Demand Requirement	744,069
Surplus	172,244

[†] Includes Ojibway Supply of 60,138 GJ/d



CONFIDENTIAL

W23/24	Station Name	Kilometre Post (km)	Demand (GJ/d)	Pressure (kPag)
	1 Dawn / Dawn West Lines	0	17742	5999
	2 Tolloch & Mandaumin	4.3	0	5980
	3 Chatham Gore Conc 4	10	0	5956
	4 Lindsay Tile Yard	12.9	37	5944
	5 Tupperville	15.2	3694	5935
	6 Dover Centre	27	83976	5877
	7 Cartier	29.4	0	5868
	8 Bechard	34.9	1927	5848
	9 Dover Transmission	40	0	5828
	10 Bradley	44.1	0	3918
	11 T. N. Lighthouse	48.9	187	3712
	12 Tilbury North TO	50.7	3995	3632
	13 Tilbury Conc 2	55.8	0	3384
	14 Stoney Point	58.7	1223	3238
	15 St Joachim	65.4	494	2892
	16 Belle River	72.6	3731	2764
	17 Puce	77.8	2336	2673
	18 Wallace	79.4	32	2640
	19 Patillo	80.9	5139	2614
	20 Elmstead	83	1537	2469
	21 Manning	85.2	7523	2314
	22 Lauzon TO	88.9	50000	2052
	23 Ford Marentette TO	90.7	3253	2012
	24 TransAlta / East Windsor TO	94.2	36242	1943
	25 Walker	94.9	36971	1939
	26 Grand Marais	97.1	26671	1938
	27 NPS 16/20 Interconnect	108.1	0	1940
	28 Bruce	109.4	3797	1930
	29 California	111.4	14812	1891
	30 Titcombe	114.9	13451	1850
	31 Brighton Beach and WWP	116.2	72314	1829
	32 Ojibway Measurement	116.6	30723	1842
	33 Ojibway Valve	117.9	0	1867
	34 River Crossing	118.6	0	1910
	35 Comber	71.2	181251	4983
	36 Mersea	75	43029	4874
	37 Kingsville	80	78083	4757
	38 Essex	88.1	6014	4713
	39 Sandwich Transmission	101.1	13881	2013
Total			744069	

W23/24 NPS 36 Panhandle Loop and Leamington Interconnect	Throughput	Direction	Requested Pressure
Location	GJ/d	Flow	kPag
Dawn Supply	683931	Westerly	
Dover Transmission to NPS 16	172556	Westerly	
Dover Transmission to NPS 20 and 36	403999	Westerly	
Leamington North Gate Station	20376	South	4331
Grand Marais Station	19907	Westerly	
Sandwich Station	95632	Westerly	
Ojibway Measurement to Windsor	60138	North/South	
Detroit River Crossing (Ojibway Supply)	60138	Easterly	

ENBRIDGE GAS INC.

Answer to Interrogatory from
Federation of Rental-housing Providers of Ontario (FRPO)

INTERROGATORY

Reference:

Exhibit B, Tab 2, Schedule 1, Attachment 1 pg. 1

Question(s):

Please provide the information in Attachment 1, including the flows requested in IR#4 above, with the addition of:

- a) The proposed 19 km of NPS 36 with demands for:
 - i) Winter 2024/25
 - ii) Winter 2033/34 (using Table 1 demands)

Response:

- a)
 - i) Please see Attachment 1 to this response for the proposed 19 km of NPS 36 with demand for Winter 2024/2025.
 - ii) The proposed 19 km of NPS 36 with demand for Winter 2033/2034 cannot be provided since the modelled system pressures fall extremely low, resulting in model failure (i.e., the model run could not be completed). The scenario is not viable without additional facilities. Therefore, no schematic or flow table can be provided.

With the proposed 19 km of NPS 36 in service as of Winter 2024/2025, it is expected to provide enough capacity through Winter 2028/2029. By Winter 2033/2034, with the Project in place providing the incremental 168 TJ/d, the forecast shortfall is 56 TJ/d.

W2024/2025 Proposed 19 km of NPS 36 Schematic and Summary Table

Panhandle Transmission System

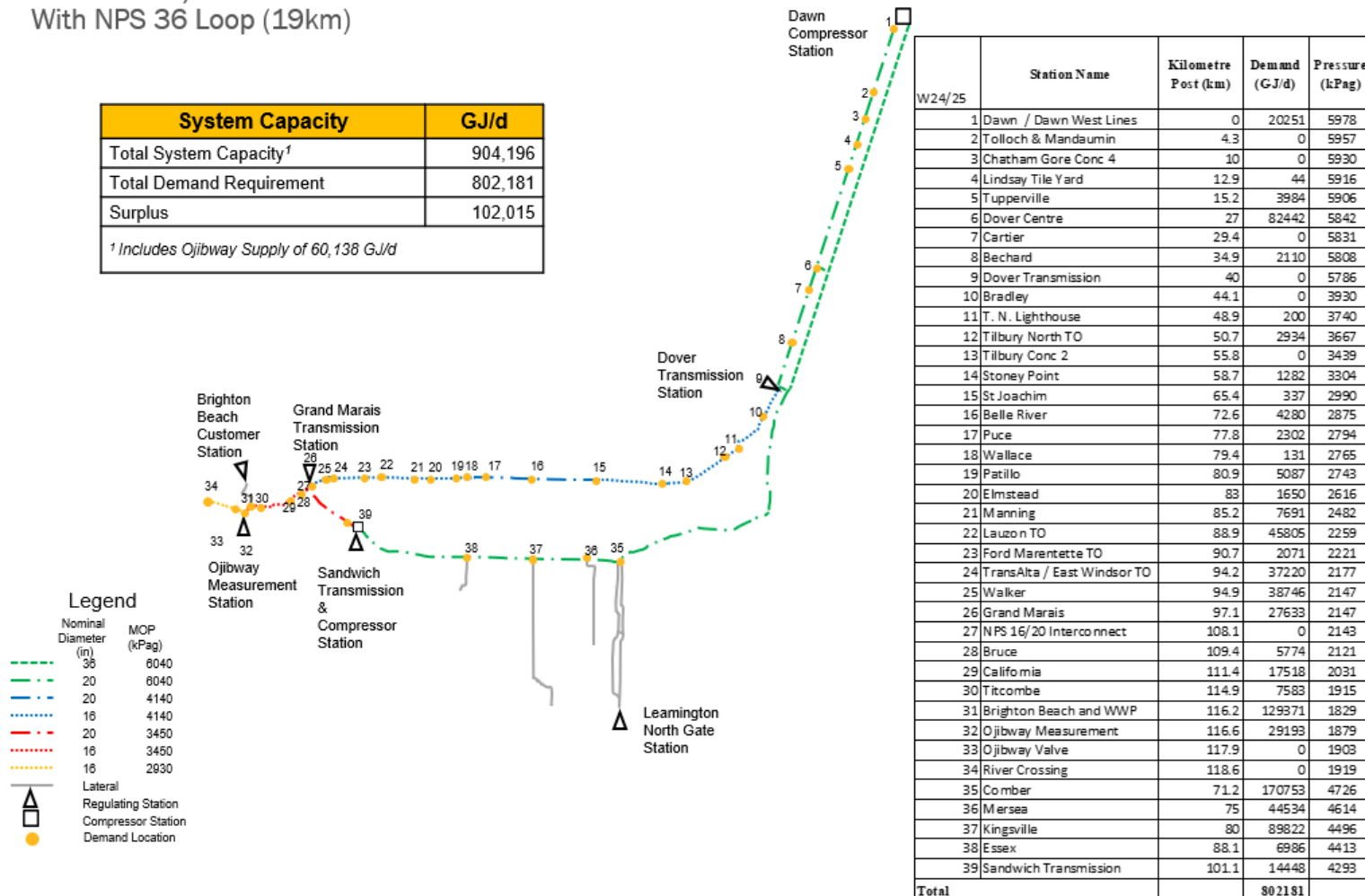
Winter Design Day Schematic

Winter 2024/2025

With NPS 36 Loop (19km)



System Capacity	GJ/d
Total System Capacity ¹	904,196
Total Demand Requirement	802,181
Surplus	102,015
¹ Includes Ojibway Supply of 60,138 GJ/d	



W24/25 Facilities (Existing with Proposed Project)	Throughput	Direction	Requested Pressure
Location	GJ/d	Flow	kPag
Dawn Supply	742,044	Westerly	
Dover Transmission Station to NPS 16	169,371	Westerly	
Dover Transmisssion Station to NPS 20+NPS 36	463,841	Westerly	
Leamington North Gate Station	14,260	South	3630
Grand Marais Station	19,635	Westerly	
Sandwich Station	151,746	Westerly	
Ojibway Measurement to Windsor	60,138	North/South	
Detroit River Crossing (Ojibway Supply)	60,138	Easterly	

ENBRIDGE GAS INC.

Answer to Interrogatory from
Federation of Rental-housing Providers of Ontario ("FRPO")

INTERROGATORY

Reference:

Exhibit B, Tab 1, Schedule 1, p. 2-3, 7, 11, 13 including Table 1 & Attachments 1 & 2

Preamble:

EGI evidence states: Natural gas is uniquely suited to the greenhouse sector. It is used to heat greenhouses and to supply the carbon dioxide requirements ("CO₂") of the growing plants. A common practice within the greenhouse sector is to capture the CO₂ that would normally be emitted into the atmosphere upon combustion of natural gas and use it within the greenhouse where it is consumed by the growing plants, resulting in faster growth and increased production.

Question:

For the schematic structure provided in Attachment 1, in tabular format, please provide the throughput and direction through:

- a) Dover Transmission to the NPS 16 & separately to the NPS 20
- b) Leamington North Gate (please add pressure also)
- c) Grand Marais Station
- d) Sandwich Station
- e) Ojibway Measurement (table shows demand of 30TJ – seeking clarification)
- f) Detroit River Crossing

Response

The Company is interpreting FRPO's reference to "Attachment 1" to be Exhibit B, Tab 2, Schedule 1, Attachment 1.

Please see Table 1 below for Winter 2023/2024 throughput and gas flow direction, without the proposed Project. In response to the clarification requested for item e), there are several distribution stations in the vicinity of Ojibway Measurement that were assigned to the Ojibway Measurement node within the schematics. Exhibit B, Tab 2,

Schedule 1, Attachment 1, shows that on design day there is 30,723 GJ/d of demand being served to customers from that general location. Thus the 60,138 GJ/d of Ojibway supply coming into the Panhandle System at the River Crossing passes through the Ojibway Measurement Station, serves the demand associated with the distribution stations near to the Ojibway Measurement Station, and the remaining 29,415 GJ/d flows easterly into the NPS 16 Panhandle System to serve other customer demands.

Table 1: Throughput and Direction at Existing Facilities Without the Project

W23/24 Existing Facilities (without Proposed Project)	Throughput	Direction	Requested Pressure
Location	GJ/d	Flow	kPag
Dawn Supply	683,931	Westerly	
Dover Transmission Station to NPS 16	172,544	Westerly	
Dover Transmission Station to NPS 20	404,010	Westerly	
Leamington North Gate Station	20,372	South	1,781
Grand Marais Station	19,879	Westerly	
Sandwich Station	95,632	Westerly	
Ojibway Measurement to Windsor	60,138	North/South	
Detroit River Crossing (Ojibway Supply)	60,138	Easterly	

2021-2026 Transportation Contracting Analysis

Route (A)	Point of Supply (B)	Basis Differential \$/mmBtu (C)	Supply Cost \$/mmBtu (D) = Nymex + C	Unitized Demand Charge \$/mmBtu (E)	Commodity Charge \$/mmBtu (F)	Fuel Charge \$/mmBtu (G)	100% LF Transportation Inclusive of Fuel \$/mmBtu (I) = E + F + G	Landed Cost \$/mmBtu (J) = D + I	Landed Cost \$/G (K)	Point of Delivery (L)	Comments
Dawn	Dawn	0.0971	3.1672				0.0000	\$3.17	\$3.80	Dawn	
TC: Dawn LTFF	Empress	-0.2935	2.7766	0.64	0.00	0.0971	0.7388	\$3.52	\$4.22	Union SWDA	
TC: Great Lakes to Dawn	Empress	-0.2935	2.7766	0.68	0.01	0.0971	0.7855	\$3.56	\$4.27	Dawn	
TC: Niagara to Dawn	Niagara	-0.0877	2.9824	0.19	0.00	0.0174	0.2060	\$3.19	\$3.83	Dawn	
MichCon: MichCon to Dawn	SE Michigan	0.0032	3.0734	0.16	0.00	0.0381	0.2025	\$3.28	\$3.93	Dawn	
Vector: Chicago to Dawn	Chicago	-0.0024	3.0677	0.16	0.00	0.0128	0.1743	\$3.24	\$3.89	Dawn	
Panhandle: Panhandle FZ to Dawn	Panhandle Field Zone	-0.2064	2.8637	0.75	0.06	0.1468	0.9572	\$3.82	\$4.58	Dawn	
NEXUS via St. Clair: Kensington to Dawn	Dominion South Point	-0.6382	2.4319	1.09	0.00	0.0758	1.1677	\$3.60	\$4.32	Dawn	
Rover: Rover SZ to Dawn	Dominion South Point	-0.6382	2.4319	0.98	0.05	0.0758	1.1053	\$3.54	\$4.24	Dawn	

Supply Assumptions used in Developing Transportation Contracting Analysis:

	Point of Supply Col (B) above	Nov 2021 - Oct 2022	Nov 2022 - Oct 2023	Nov 2023 - Oct 2024	Nov 2024 - Oct 2025	Nov 2025 - Oct 2026	Average Annual Gas Supply Cost \$/mmBtu Col (D) above	Fuel Ratio Forecasts Col (G) above
Annual Gas Supply & Fuel Ratio Forecasts								
Henry Hub	Henry Hub	\$ 2.86	\$ 2.92	\$ 3.09	\$ 3.25	\$ 3.23	\$ 3.07	
Dawn	Dawn	\$ 2.94	\$ 3.02	\$ 3.15	\$ 3.36	\$ 3.37	\$ 3.17	
TC: Dawn LTFF	Empress	\$ 2.55	\$ 2.61	\$ 2.72	\$ 3.03	\$ 2.96	\$ 2.78	3.50%
TC: Great Lakes to Dawn	Empress	\$ 2.55	\$ 2.61	\$ 2.72	\$ 3.03	\$ 2.96	\$ 2.78	2.93%
TC: Niagara to Dawn	Niagara	\$ 2.79	\$ 2.88	\$ 2.98	\$ 3.14	\$ 3.12	\$ 2.98	0.58%
MichCon: MichCon to Dawn	SE Michigan	\$ 2.83	\$ 2.91	\$ 3.07	\$ 3.28	\$ 3.27	\$ 3.07	1.24%
Vector: Chicago to Dawn	Chicago	\$ 2.81	\$ 2.90	\$ 3.06	\$ 3.28	\$ 3.28	\$ 3.07	0.42%
Panhandle: Panhandle FZ to Dawn	Panhandle Field Zone	\$ 2.67	\$ 2.71	\$ 2.86	\$ 3.05	\$ 3.02	\$ 2.86	5.13%
NEXUS via St. Clair: Kensington to Dawn	Dominion South Point	\$ 2.35	\$ 2.45	\$ 2.49	\$ 2.51	\$ 2.36	\$ 2.43	3.12%
Rover: Rover SZ to Dawn	Dominion South Point	\$ 2.35	\$ 2.45	\$ 2.49	\$ 2.51	\$ 2.36	\$ 2.43	0.61%

Sources for Assumptions:

Gas Supply Prices (Col D):	ICF Q1 2021 Base Case		
Fuel Ratios (Col G):	Average ratio over the previous 12 months or Pipeline Forecast		
Transportation Tolls (Cols E & F):	Tolls in effect on Alternative Routes at the time of Union's Analysis		
Foreign Exchange (Col K)	\$1 US =	\$1.266 CDN	From Bank of Canada Closing Rate March 8, 2021
Energy Conversions (Col K)	1 dth = 1 mmBtu =	1.055056	
EGI's Analysis Completed:	Mar-20		
Paths included in analysis are those with comparable services available for contracting, as well as relevant benchmarks and currently contracted paths.			

21 TJ/d. The results of the RFP confirmed that a firm exchange to Ojibway is not commercially available to defer the need for the proposed Project. Therefore, the Company did not evaluate this alternative further.

51. A firm exchange is not commercially available to defer the need for the proposed project to Winter 2025/26. On June 1, 2023, the PEPL website indicated that up to 21 TJ/d of delivery capacity was available at Ojibway. The available PEPL system capacity with delivery to Ojibway did not change since the RFP was conducted. Therefore, the company did not complete a second RFP and did not evaluate this alternative further. /U
2. *Firm exchange between Dawn and Ojibway in combination with looping of the NPS 20 Panhandle Line west of Dover Transmission (Hybrid Alternatives)* /U
52. While the entire capacity requirement cannot be met through delivered supply at Ojibway, the potential to utilize delivered supply to reduce the pipeline facilities required to meet the 5-year forecast growth was evaluated. Enbridge Gas evaluated a hybrid alternative which includes a 21 TJ/d firm exchange between Dawn and Ojibway beginning November 1, 2024, for a 40-year term⁴ coupled with a NPS 36 loop of the NPS 20 Panhandle Line. Based on analysis, the incremental 21 TJ/d of Ojibway deliveries would reduce the length of the NPS 36 loop from approximately 18.93 km to 17.86 km to provide the same capacity as the proposed Project (168 TJ/d). The loop length of 17.86 km would result in an end-point located in the middle of a landowner's agricultural property. When constructing new pipelines, Enbridge Gas does not typically construct pipeline tie-ins beyond the edge of property-lines or roadways so the facilities can be easily accessed for maintenance and connection to required utility services. Furthermore, locating pipeline tie-ins in the middle of an /U

⁴ Aligned with the expected useful life of the pipeline alternative.

agricultural property would result in larger impacts to the landowner (i.e., installation of driveways, power infrastructure, etc.).

53. Notwithstanding the fact that this hybrid alternative does not viably impact the length of the NPS 36 loop, it is not economic relative to the proposed Project even if Enbridge Gas proceeded to locate a tie-in in the middle of the agricultural property. This 1.07 km reduction in the length of the loop would decrease the proposed Project cost by \$7 million. To achieve this scope reduction, Enbridge Gas estimated that the firm exchange would cost \$4.2 million annually for an estimated discounted total cost of \$66.2 million over a 40-year term.

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54. Enbridge Gas evaluated a second hybrid alternative which includes a 21 TJ/d firm exchange between Dawn and Ojibway beginning November 1, 2024, for a 40-year term coupled with a shorter NPS 36 loop of the NPS 20 Panhandle Line, ending at Wheatley Road. This tie-in location is 16.20 km west of Dover Transmission (2.73 km shorter than the preferred alternative).

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55. This hybrid alternative provides 15 TJ/d less capacity compared to the proposed Project, does not provide enough capacity to serve the 5-year forecast growth, and is not economic relative to the proposed Project. This 2.73 km reduction in the length of the loop would decrease the proposed Project cost by \$27.5 million. To achieve this scope reduction, Enbridge Gas estimated that the firm exchange would cost \$4.2 million annually for an estimated discounted total cost of \$66.2 million over a 40-year term.

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56. A summary of the hybrid alternatives discussed above is provided in Table 4 below.

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Table 4: Hybrid Alternative Economic Assessment

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Potential Alternative	Incremental Capacity (TJ/d)	Costs (\$ Million)	NPV (\$ Million)	Cost per Unit of Capacity (\$/TJ/d)
Hybrid Alternative: 17.86 km NPS 36 and 21 TJ/d Ojibway to Dawn Exchange	168	<u>Facility</u> \$351.0	\$(212.1)	\$2.48
		<u>O&M</u> \$4.2 Annually \$(66.2) over a 40-year term		
Hybrid Alternative: 16.20 km (i.e., Wheatley Road end-point) NPS 36 and 21 TJ/d Ojibway to Dawn Exchange	153	<u>Facility</u> \$330.5	\$(204.0)	\$2.59
		<u>O&M</u> \$4.2 Annually \$(66.2) over a 40-year term		

(1) The estimated O&M costs are based on the bid received in the RFP. The bid stated pricing is subject to refresh based on the market conditions at the timing of contracting.

57. The commercial availability, economic viability, flexibility, and reliability of these hybrid alternatives are dependent on various factors including price, term, and capacity uncertainty, which poses risk to Enbridge Gas customers when relying on third party transportation services with delivery to Ojibway to meet firm demand.

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58. There is future price risk with respect to exchange services. The service contains price variability compared to facility alternatives which have a fixed cost once installed.

59. The value of the exchange service is generally based on the relative difference in gas commodity price between Dawn and Ojibway. Gas prices are subject to change based on market factors over time. Therefore, the cost of an exchange service beyond the initial term is uncertain.