



# NGTL System and Foothills Pipelines Ltd.

CUSTOMER OPERATIONS MEETING

FOR INFORMATIONAL PURPOSES ONLY



12/05/2024

# Forward Looking Information

- ❖ This presentation includes certain forward-looking information. Statements that are forward-looking are based on certain assumptions and on what we know and expect today and generally include words like anticipate, expect, believe, may, will, should, estimate or other similar words.
- ❖ The information provided is for informational purposes only and is not to be relied upon for any other purpose whatsoever. The information is based upon certain assumptions that may or may not be accurate and therefore is subject to various risks and uncertainties. TC Energy shall not be liable for damages sustained as a result of any use or reliance on such information.
- ❖ The outages listed in this presentation are not an exhaustive list. Outage date, duration, and impact may be subject to change. Refer to the Daily Operating Plan (DOP) for all planned outages with potential service impact.

No  
impact to FT

Refers to outage periods where FT impact is not expected

Potential  
impact to FT

Refers to outage periods where there is potential of FT impact

Partial  
impact to FT

Refers to outage periods where FT impact is expected

# Important Notes



Outage information in this presentation may not be accurate beyond December 5, 2024



For current outage and capability information, please refer to the most recent Daily Operating Plan ([DOP](#)), the [Dashboard](#) and [bulletins](#)



This meeting covers broad operational and project-related topics that impact operations on the NGTL and Foothills systems. For information on focused Commercial, Operational and Regulatory topics, please contact your [Marketing Representative](#)



# Agenda

1. 2024 Operational Year in Review
2. Review of November Operations
3. 2024 Remaining Outage
4. 2025 Operational Outlook



12/05/2024

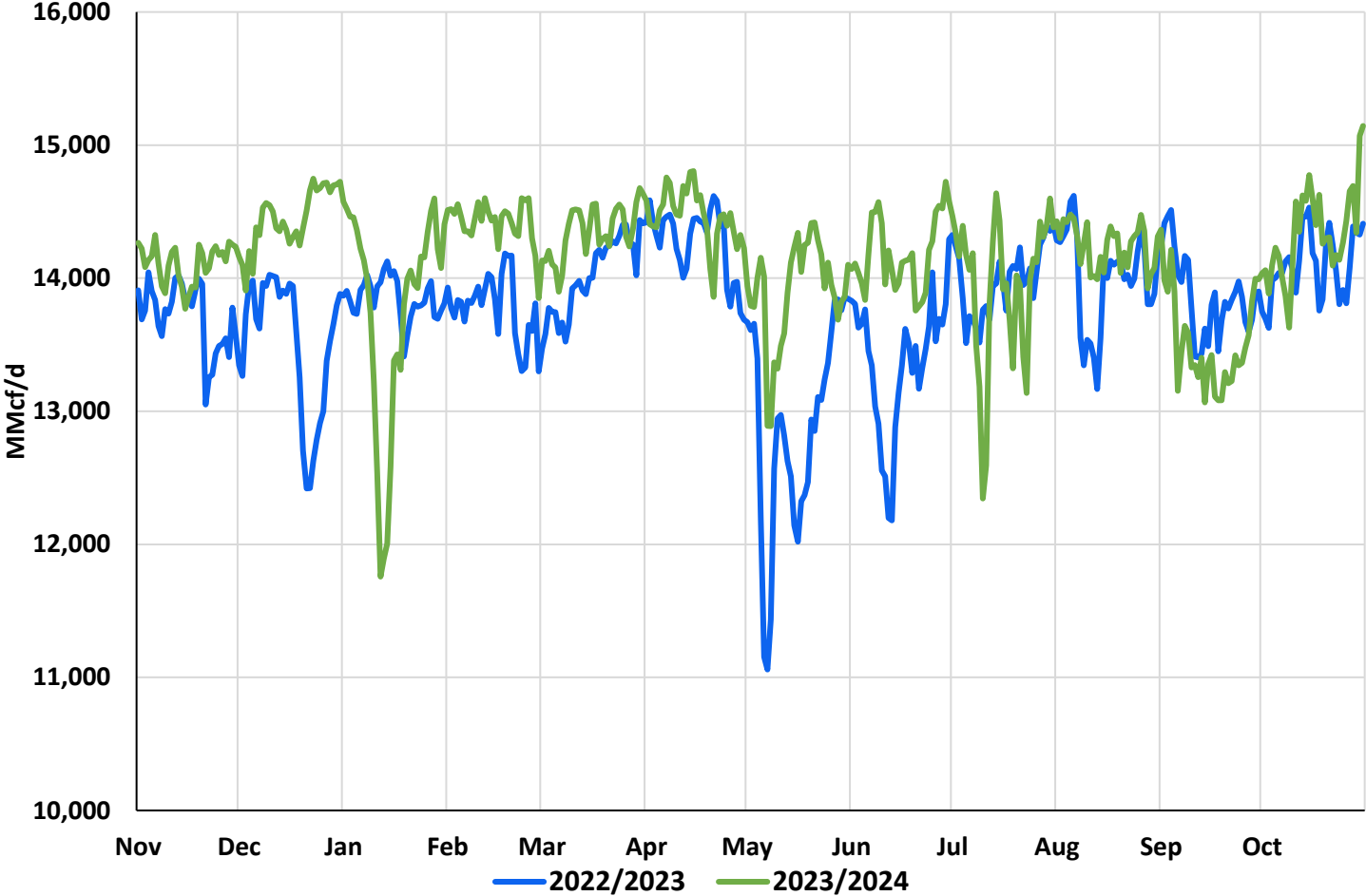
# 2024 Year in Review

FOR INFORMATIONAL PURPOSES ONLY



# System Throughput | Gas Year Comparison

Total NGTL Receipts (excluding Storage)



**Receipts increased ~3%\***  
• 2024 average total receipts ~14.2 Bcf/d

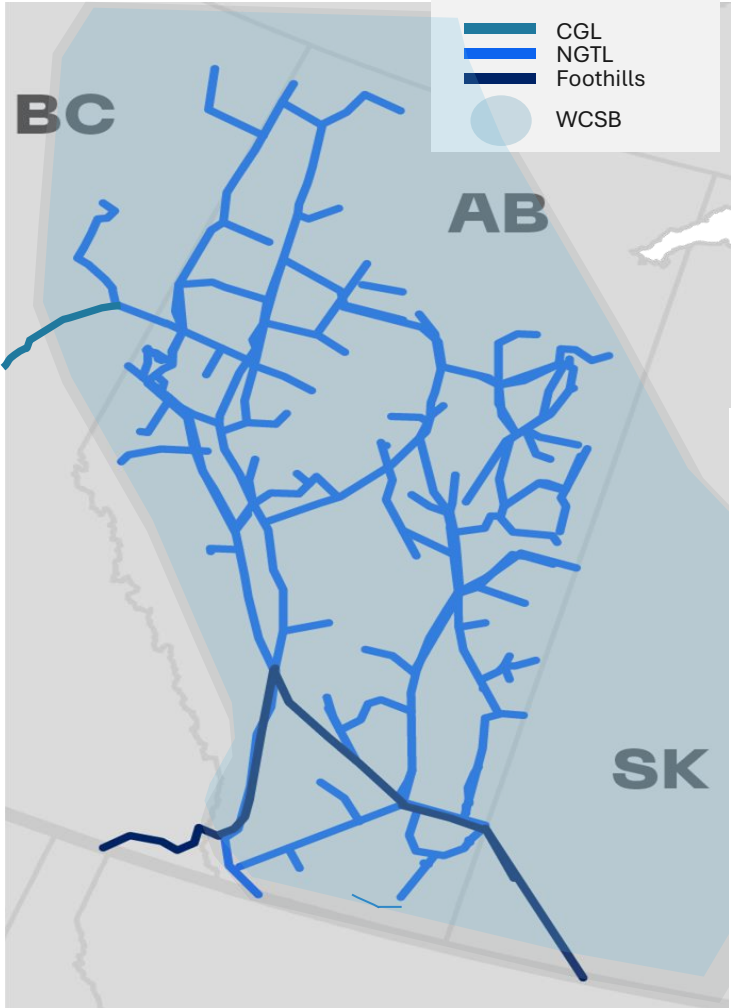
**Intra Deliveries increased ~1%\***  
• 2024 average intra delivery ~6.2 Bcf/d

**Major Export Deliveries increased ~7%\***  
• 2024 average EGAT delivery ~4.8 Bcf/d  
• 2024 average WGAT delivery ~2.6 Bcf/d

\*compared to 2022/2023 gas year



# System Utilization | Records Achieved in 2024



**17.3 BCF/D**

**Overall NGTL System Demand (including exports)**  
on January 17, 2024

**8.7 BCF/D**

**Intra-Provincial Demand**  
on January 12, 2024

**3.1 BCF/D**

**OSDA Demand**  
on March 5, 2024

**2.6 BCF/D**

**Residential and Commercial Demand:**  
on January 12, 2024

**1.1 BCF/D**

**Power Producer Demand**  
on July 18, 2024

**15.1 BCF/D**

**Total System Receipts**  
on October 30, 2024

**Peak Storage Withdrawal was 4.3 BCF/D** on January 14, 2024  
(Historical record is 4.5 BCF/D from December 6, 2013)



# NGTL Restricted Days | 2023 and 2024



2024*	Area	FT Restricted Days	IT Restricted Days	Unrestricted Days
	USJR	2	50	283
	EGAT	-	2	333
	WGAT	51	-	284
	NEDA	2	1	332

\*Up to and including November 30



2023	Area	FT Restricted Days	IT Restricted Days	Unrestricted Days
	USJR	26	128	211
	EGAT	-	13	352
	WGAT	59	12	294
	NEDA	-	19	346





# 2024 | Summary



Increased throughput and high utilization continues



Several record high flow records achieved within the year



Less overall FT restricted days in comparison to 2023



# Review of November Operations

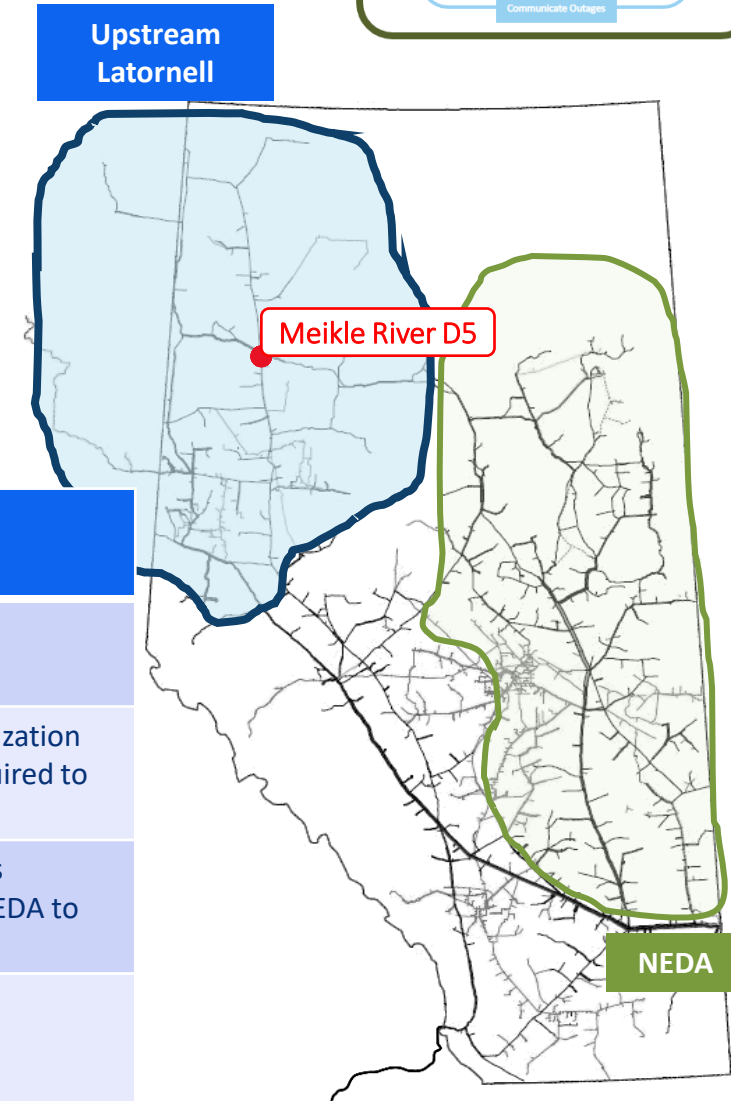


# Meikle River D5 – Compressor Station Maintenance

## Background:

- **Unplanned:**
  - Meikle River D5 Compressor Station Maintenance: November 26 - 28
- **Capability communicated in DOP:**
  - USJR: 360 10<sup>6</sup>m<sup>3</sup>/d
  - OSDA/NEDA: 80/125 10<sup>6</sup>m<sup>3</sup>/d
- **Service Allowable:**
  - USJR: 0% IT-R, 100% FT-R (Upstream of Latornell)
  - OSDA/NEDA: 0% IT-D, 71% FT-D

Bulletin Date	Effective Date	Service Allowable	Comments
	Nov 25	100% IT-R, 100% FT-R 100% IT-D, 100% FT-D	Unplanned Meikle River D5 outage
Nov 26	Nov 26 (13:00 MST)	0% IT-R, 100% FT-R (Upstream Latornell) 0% IT-D, 100% FT-D (NEDA)	Meikle River D5 unable to be reclaimed, service authorization change to both Upstream Latornell and NEDA area required to safely operate the system.
Nov 26	Nov 27 (08:00 MST)	0% IT-R, 100% FT-R (Upstream Latornell) 0% IT-D, 71% FT-D (NEDA)	Due to ongoing Meikle River D5 outage and NEDA flows exceeding capability, service authorization change to NEDA to continue to safely operate the system.
Nov 28	Nov 29 (08:00 MST)	100% IT-R, 100% FT-R (Upstream Latornell) 100% IT-D, 100% FT-D (NEDA)	Unplanned Meikle River D5 outage complete



# NGTL Non-Critical Notice

**Notice Type:** Capacity Constraint

**Effective Start Date Time:** Nov 26, 2024 08:49 CCT

**Subject:** NGTL Service (USJR IT-R, NEDA IT-D)

## NGTL Service (USJR IT-R, NEDA IT-D)

**USJR:** Due to unplanned maintenance on the Meikle River D Compressor (19885252), service allowable for segments 2, 3, 4, and partial 7 (upstream Latornell) will transition from 100% IT-R and 100% FT-R to 0% IT-R and 100% FT-R effective November 26, 2024 at 13:00 MST until further notice. For the purposes of the DOP that will be published today, a placeholder end date of December 2, 2024 will be used until more information is known.

**WGAT:** N/A

**EGAT:** Due to unplanned maintenance on the Meikle River D Compressor (19885252), service allowable in the North East Delivery Area (NEDA) will transition from 100% IT-D and 100% FT-D to 0% IT-D and 100% FT-D effective November 26, 2024 at 13:00 MST until further notice. For the purposes of the DOP that will be published today, a placeholder end date of December 2, 2024 will be used until more information is known.

Upstream James River Receipt Area						
<b>Effective:</b>	October 29, 2024 at 08:00 MST	<b>IT Allowable:</b> 100%	IT-R	IT-S (receipt)		
<b>Expected End:</b>	November 26, 2024 at 13:00 MST	<b>FT Allowable:</b> 100%	FT-R	FT-P		
<b>Interconnects:</b>	Altken Creek, Big Eddy, Groundbirch East, Gordondale, January Creek					
<b>Segments:</b>	<a href="#">2, 3, 4, 5, 7, partial 8, and partial 9</a>					
<b>Effective:</b>	November 26, 2024 at 13:00 MST	<b>IT Allowable:</b> 0%	IT-R	IT-S (receipt)		
<b>Expected End:</b>	Until further notice	<b>FT Allowable:</b> 100%	FT-R	FT-P		
<b>Interconnects:</b>	Altken Creek, Groundbirch East, Gordondale					
<b>Segments:</b>	<a href="#">Segments 2, 3, 4, and partial 7 (Upstream of Latornell)</a>					

East Gate Delivery Area						
<b>Effective:</b>	July 10, 2024 at 08:00 MST	<b>IT Allowable:</b> 100%	IT-D	IT-S (delivery)		
<b>Expected End:</b>	November 26, 2024 at 13:00 MST	<b>FT Allowable:</b> 100%	FT-P	FT-D1	FT-D2	STFT
<b>Interconnects:</b>	Aeco C, Carbon, Chancellor, Crossfield East #2, Severn Creek, Empress, McNeil, Unity, Cold Lake, Warwick SE					
<b>Segments:</b>	<a href="#">6, 10, 11, 13, 14, 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28 (Greater EGAT)</a>					
<b>Effective:</b>	November 26, 2024 at 13:00 MST	<b>IT Allowable:</b> 100%	IT-D	IT-S (delivery)		
<b>Expected End:</b>	Until further notice	<b>FT Allowable:</b> 100%	FT-P	FT-D1	FT-D2	STFT
<b>Interconnects:</b>	Aeco C, Carbon, Chancellor, Crossfield East 2, Severn Creek, Empress, McNeill					
<b>Segments:</b>	<a href="#">18, 19, 20, and partial 21</a>					
<b>Effective:</b>	November 26, 2024 at 13:00 MST	<b>IT Allowable:</b> 0%	IT-D	IT-S (delivery)		
<b>Expected End:</b>	Until further notice	<b>FT Allowable:</b> 100%	FT-P	FT-D1	FT-D2	STFT
<b>Interconnects:</b>	Cold Lake, Unity, Warwick SE					
<b>Segments:</b>	<a href="#">6, 10, 11, 13, 14, 15, 16, 17, 23, 24, and partial 28 (NEDA)</a>					

Upstream Latornell  
List of Stations Impacted

Lower EGAT  
List of Stations (no impact)

NEDA  
List of Stations Impacted

[Link to Bulletin: NGTL Service \(USJR IT-R, NEDA IT-D\)](#)

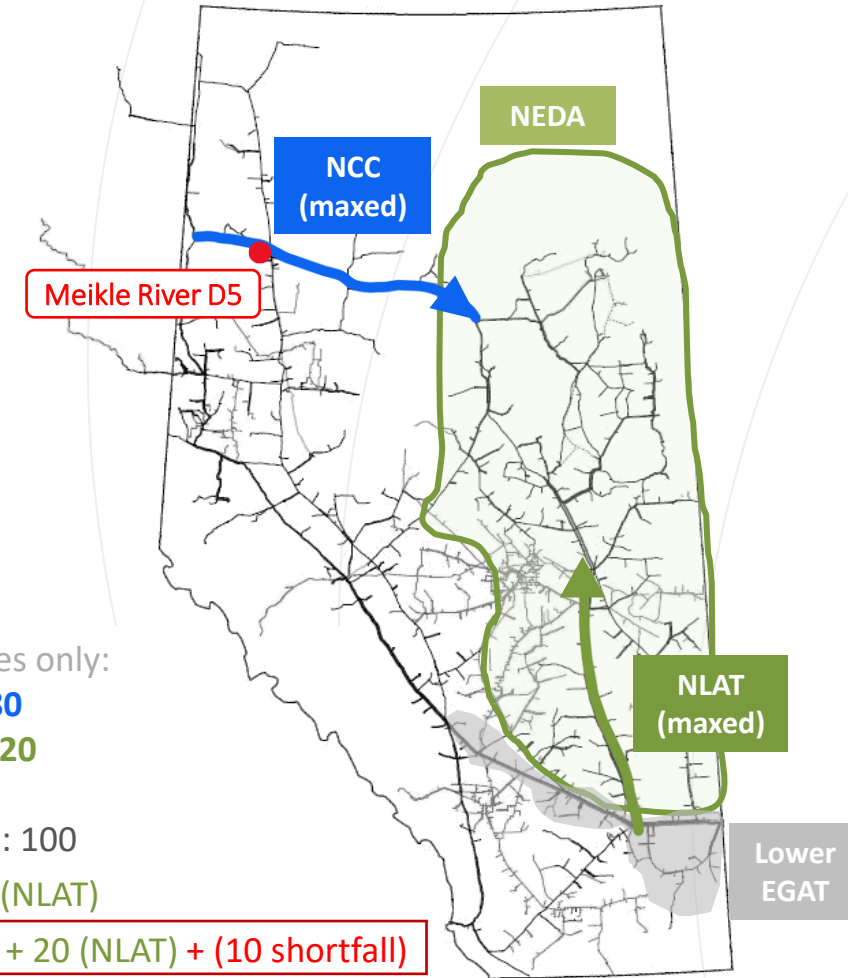
# Why was this outage significant to NEDA?

## Why did this outage impact NEDA?

- Always maximizing NCC flow - most efficient path for supply into NEDA
- In the winter, when NEDA demand is high, the NLAT is typically already flowing at max capability resulting in the inability to supplement a reduction of NCC flow
  - If NEDA demand is higher than the combined flow on the NCC and NLAT, service allowable would be reduced in NEDA to ensure equitability and safe operation

## Why wasn't Lower EGAT part of the restriction?

- Lower EGAT was outside of the bottlenecked area (NCC + NLAT)
- Lower EGAT flow does not reduce the NLAT capability



For illustrative purposes only:

**NCC Max Capability: 80**

**NLAT Max Capability: 20**

**Winter** NEDA Demand: 100

Typical: 80 (NCC) + 20 (NLAT)

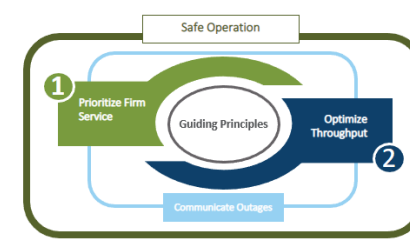
NCC Outage: 70 (NCC) + 20 (NLAT) + (10 shortfall)

Would require restriction

# 2024 Remaining Outage

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# 2024 Remaining Outage

- Majority of impactful preventative maintenance outages for 2024 have been completed
- One (1) potentially impactful outage is ongoing:

## Upstream James River Receipt Area (USJR)

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	USJR Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Area Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Outage Area Typical Flows (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Latornell A2 – Compressor Station Maintenance	2-Dec-24	6-Dec-24	372	6	277	215 - 235	Potential impact to FT-R USJR U/S Berland River

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.

information updated since last meeting



# 2025 Operational Outlook

(From DOP as of Wednesday, December 5)





# 2025 Outages

- Outages with the most significant impact to system capability were added to the DOP on November 6, 2024
- All known outages planned for Q1 have now been added
- We will continue to make best efforts to limit changes of dates to larger impacting outages; however, Start and End Dates, Durations, Capability, Area of impact may be revised as new information becomes available or further optimization opportunities are identified

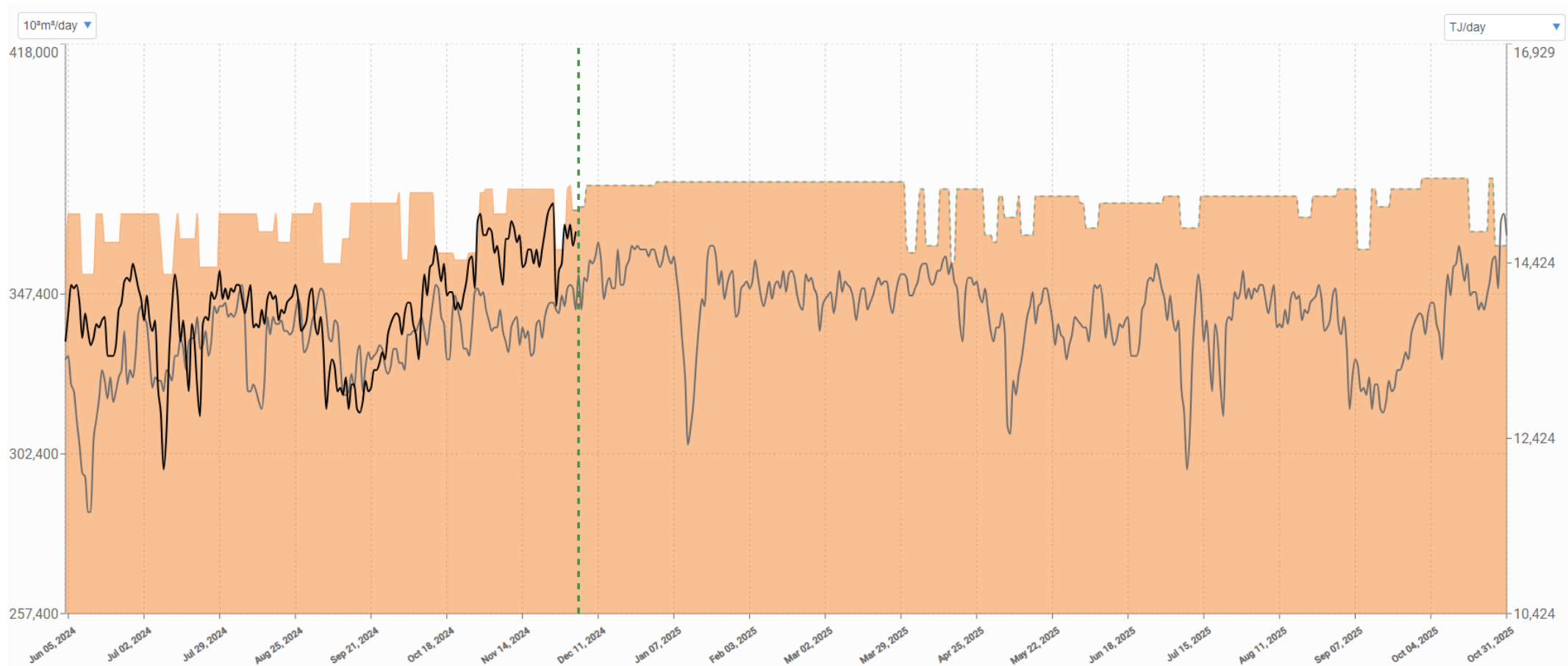
*Outages and/or maintenance work is posted to the DOP if there is reasonable expectation that the event could or will result in a change to service authorization levels.*

Optimization efforts are on-going, and we will continue to focus on safety, optimizing system capacity and minimizing outage impacts.



# Upstream James River

Capability - Actual Flow - Historical Flow



## Facility Assumptions:

- NPS 36 GPML pressure derates remain in place until June 30, 2025

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# Upstream James River Receipt Area (USJR)

No impact to FT

Potential impact to FT

Partial impact to FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	USJR Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Area Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Outage Area Typical Flows (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Otter Lake – Compressor Station Maintenance	31-Mar-25	3-Apr-25	359	18	222	210-230	Potential impact to FT-R USJR U/S Latornell
Groundbirch – Compressor Station Maintenance	31-Mar-25	4-Apr-25	370	7	233	210-230	Potential impact to FT-R USJR U/S Latornell
Alces River B3 – Compressor Station Maintenance	2-Apr-25	3-Apr-25	369	8	232	210-230	Potential impact to FT-R USJR U/S Latornell
Hidden Lake North – Compressor Station Maintenance	7-Apr-25	11-Apr-25	369	8	232	210-230	Potential impact to FT-R USJR U/S Latornell
Goodfish – Compressor Station Maintenance	7-Apr-25	11-Apr-25	361	16	224	210-230	Potential impact to FT-R USJR U/S Latornell
Meikle River D5 – Compressor Station Maintenance	16-Apr-25	17-Apr-25	356	21	219	210-230	Potential impact to FT-R USJR U/S Latornell
Gold Creek – Compressor Station Maintenance	28-Apr-25	2-May-25	362	13	243	230-250	Potential impact to FT-R USJR U/S Emerson Creek
Knight – Compressor Station Maintenance	5-May-25	9-May-25	369	6	N/A	340-370	Potential impact to FT-R USJR
Latornell – Compressor Station Maintenance	11-May-25	15-May-25	364	11	245	230-250	Potential impact to FT-R USJR U/S Emerson Creek
Berland River – Compressor Station Maintenance	3-Jun-25	7-Jun-25	366	7	N/A	340-370	Potential impact to FT-R USJR
Swartz Creek – Compressor Station Maintenance	7-Jul-25	13-Jul-25	366	9	N/A	340-370	Potential impact to FT-R USJR

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.

information updated since last meeting



# Upstream James River Receipt Area (USJR)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	USJR Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Area Outage Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Outage Area Typical Flows (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Alces River – Compressor Station Maintenance	18-Aug-25	22-Aug-25	369	6	238	210-230	Potential impact to FT-R USJR U/S Latornell
Meikle River C – Compressor Station Maintenance	8-Sep-25	12-Sep-25	360	17	229	210-230	Potential impact to FT-R USJR U/S Latornell
Gold Creek B3 – Compressor Station Maintenance	15-Sep-25	19-Sep-25	372	5	247	215-235	Potential impact to FT-R USJR U/S Berland River
Otter Lake – Compressor Station Maintenance	18-Oct-25	24-Oct-25	365	15	234	210-230	Potential impact to FT-R USJR U/S Latornell
Meikle River D5 – Compressor Station Maintenance	27-Oct-25	31-Oct-25	361	19	230	210-230	Potential impact to FT-R USJR U/S Latornell

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.

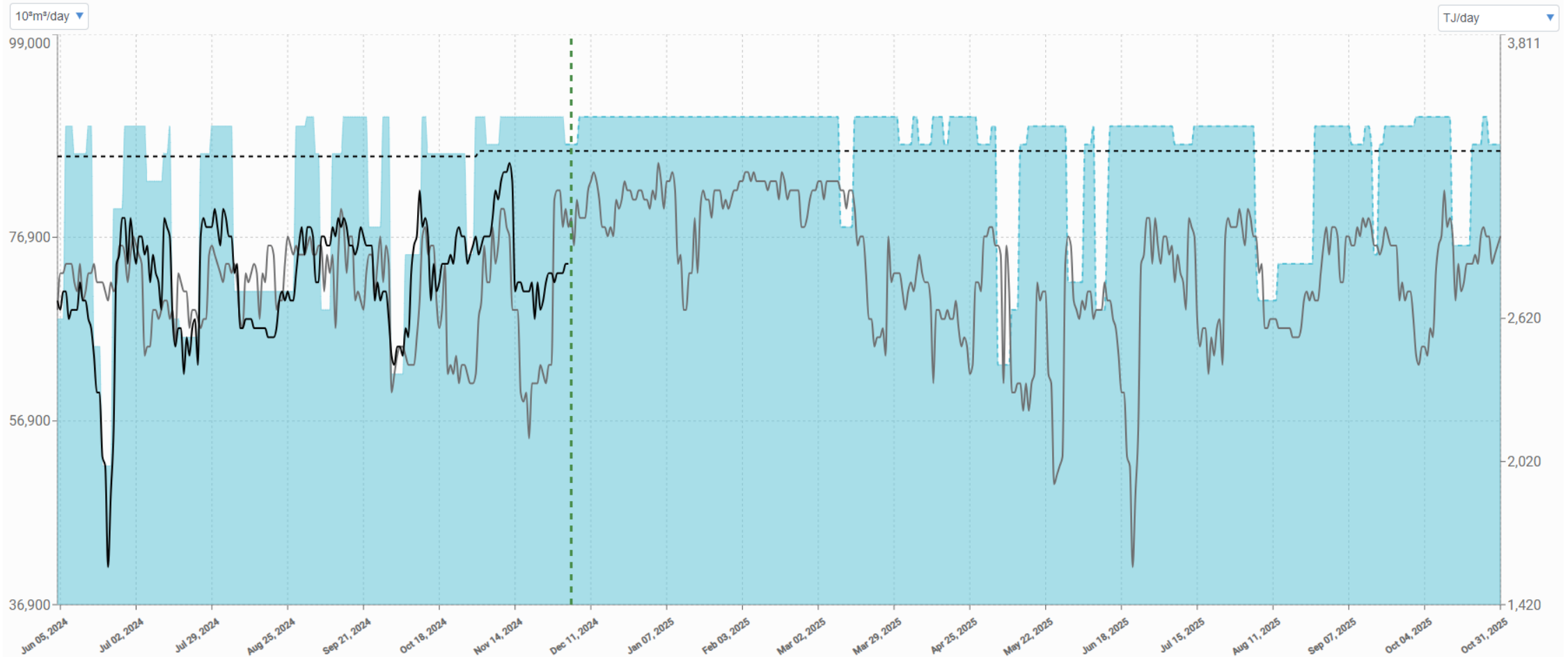
information updated since last meeting



# Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)

■ Capability    — Actual Flow    - - Historical Flow    - - Contracts



May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# West Gate Delivery Area (WGAT)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Crowsnest K – Compressor Station Maintenance	10-Mar-25	14-Mar-25	78	12	Potential Impact to FT Foothills BC
Moyie – Compressor Station Maintenance	5-May-25	9-May-25	63	26	Potential Impact to FT Foothills BC
NPS 42 WAS Mainline Loop – Pipeline Modification	7-May-25	12-May-25	69	20	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Burton Creek C/S – Compressor Station Maintenance	30-May-25	4-Jun-25	72	17	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Crowsnest – Compressor Station Maintenance	9-Jun-25	12-Jun-25	69	20	Potential Impact to FT Foothills BC
Crowsnest B – Compressor Station Maintenance	9-Jun-25	13-Jun-25	79	10	Potential Impact to FT Foothills BC
Elko – Compressor Station Maintenance	5-Aug-25	25-Aug-25	74	15	Potential Impact to FT Foothills BC
NPS 42 WAS Mainline Loop – Pipeline Maintenance	6-Aug-12	12-Aug-25	70	19	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Burton Creek A3 – Compressor Station Maintenance	16-Sep-25	17-Sep-25	75	14	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Turner Valley A1 & A2 – Compressor Station Maintenance	14-Oct-25	20-Oct-25	76	14	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders

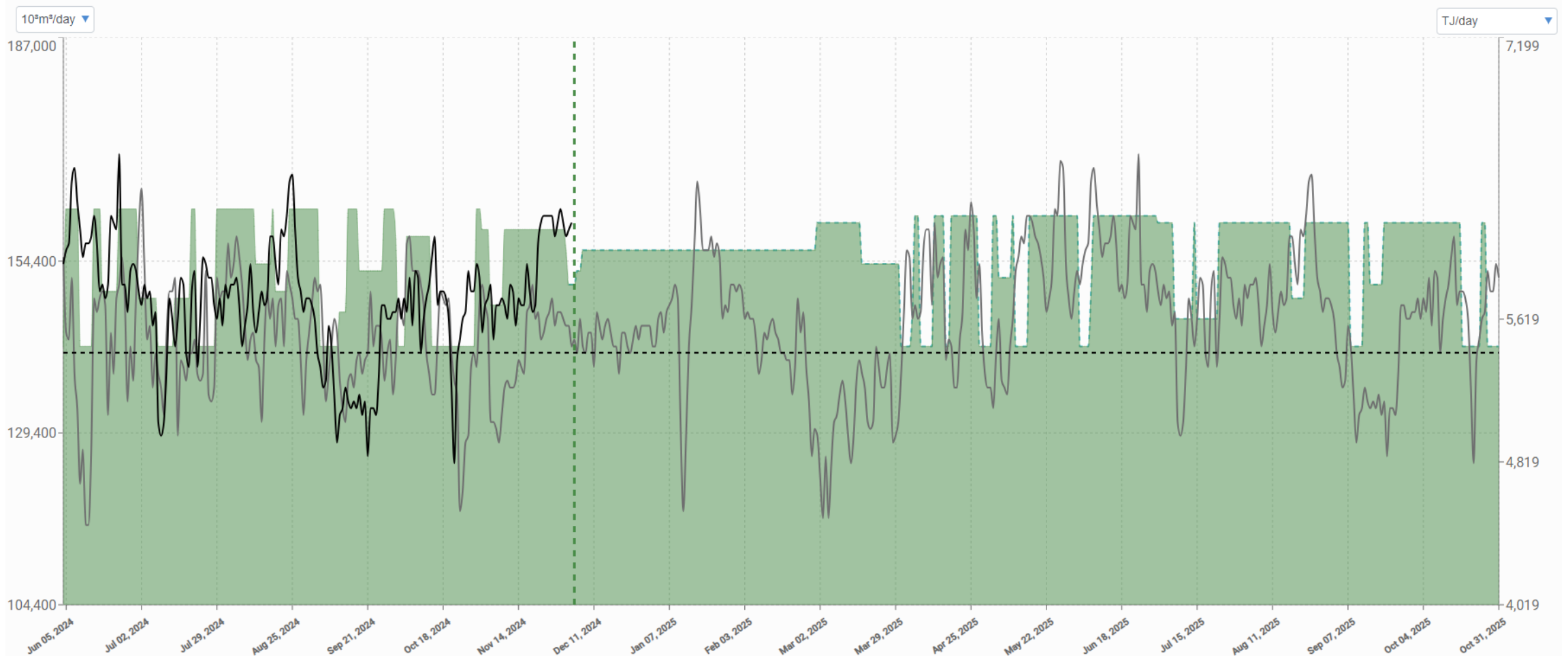
**Note:** Outages located in the USJR area show up in the WGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# East Gate

■ Capability    - Actual Flow    - Historical Flow    - - Contracts



May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# East Gate Delivery Area (EGAT)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Jenner – Compressor Station Maintenance	17-Mar-25	30-Mar-25	154	6	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Didsbury – Compressor Station Maintenance	7-Apr-25	10-Apr-25	150	11	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Foothills Zone 6 – Pipeline Maintenance	3-Jun-25	6-Jun-25	142	19	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Foothills Zone 6 and 9 – Pipeline Maintenance	15-Jul-25	22-Jul-25	146	14	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

**Note:** Outages located in the USJR area show up in the EGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.

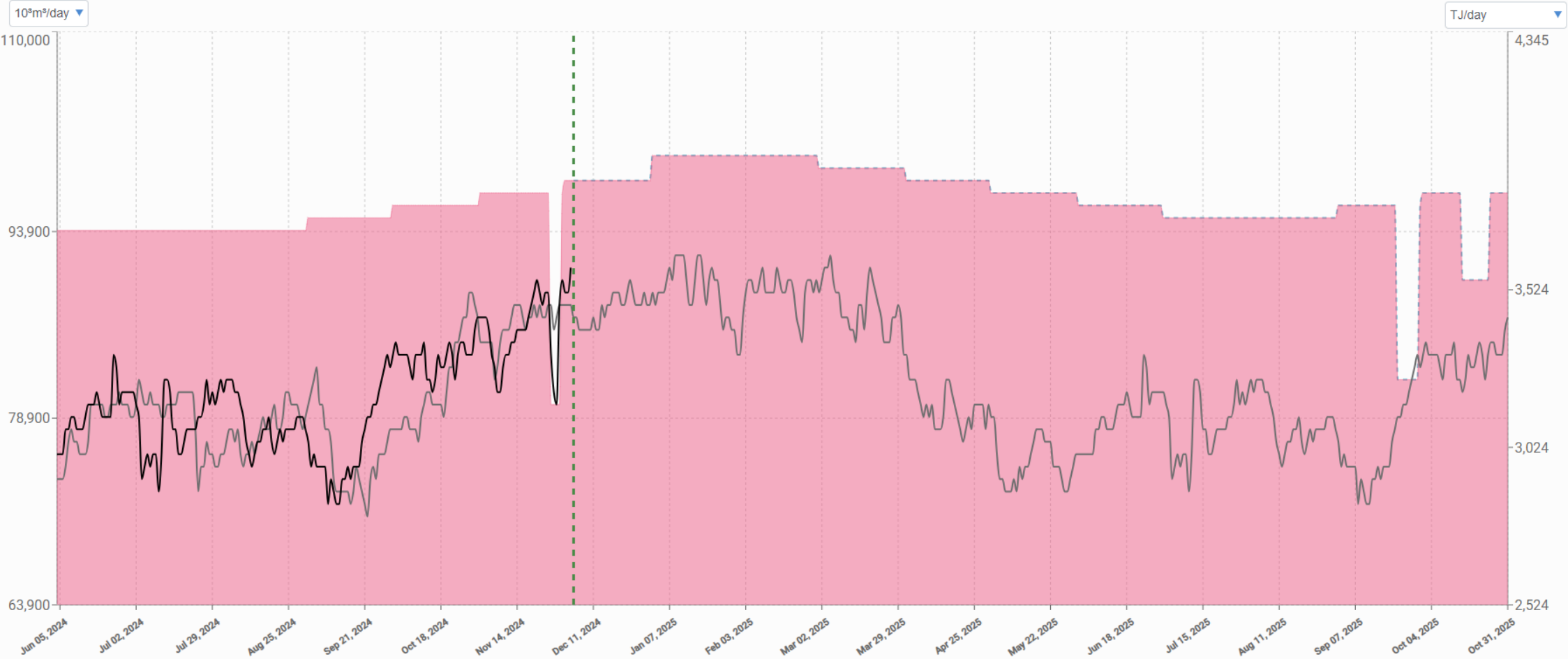
information updated since last meeting





# Oil Sands Delivery Area

Capability - Actual Flow - Historical Flow



May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# Northeast Delivery Area (NEDA) Oilsands Delivery Area (OSDA)

No  
impact to FT

Potential  
impact to FT

Partial  
impact to FT

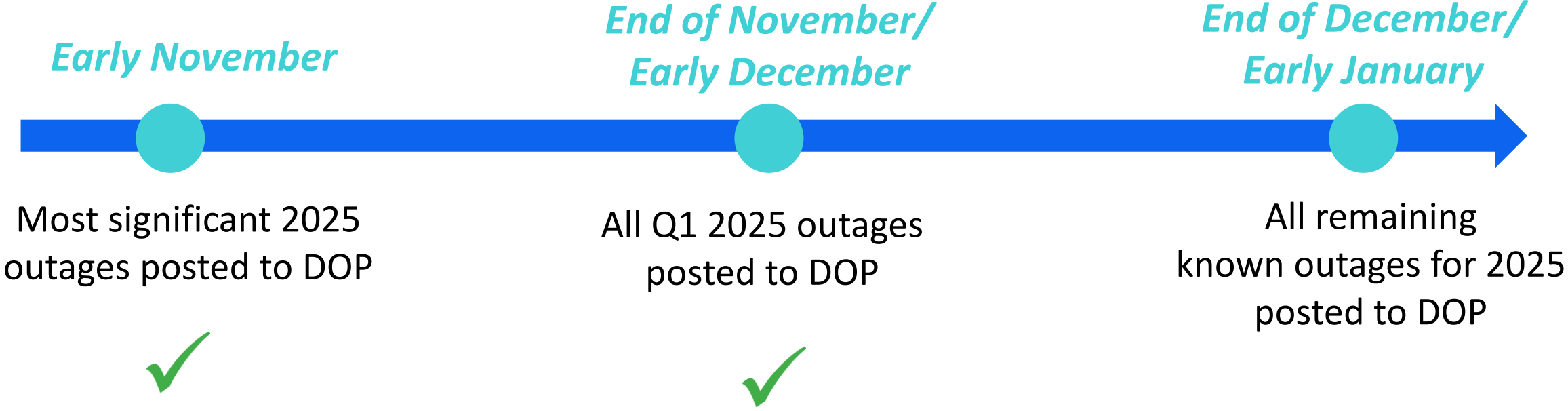
Outage Description	Start	End	OSDA Capability (10 <sup>6</sup> m <sup>3</sup> /d)	NEDA Capability (10 <sup>6</sup> m <sup>3</sup> /d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
NPS 24/30 North Lateral Loop 2 – Pipeline Maintenance	22-Sep-25	29-Sep-25	82	-	14	Potential impact to FT-D Segments 11, 14, 15, 16, and partial 28 Local Capability: 50 10 <sup>6</sup> m <sup>3</sup> /d Typical Flow: 62 10 <sup>6</sup> m <sup>3</sup> /d
NPS 12 Leming Lake Lateral – Pipeline Modifications	15-Oct-25	24-Oct-25	90	-	7	Potential impact to FT-D Segments 14 and partial 11 Local Capability: 18 10 <sup>6</sup> m <sup>3</sup> /d Typical Flow: 22 10 <sup>6</sup> m <sup>3</sup> /d

*Note: These outages have been included in the OSDA table for the purposes of the DOP, even though their area of impact is expected to be slightly different than the standard OSDA definition*

May not be accurate beyond December 5. Please refer to the DOP on TC Customer Express for current outage information.



# 2025 Outage Communication Schedule



Refer to the DOP for the most current outage information





# CONTACTS



## MARKETING REPS

[Customer Express Contacts  
\(tccustomerexpress.com\)](https://tccustomerexpress.com)

## MINH BADAU

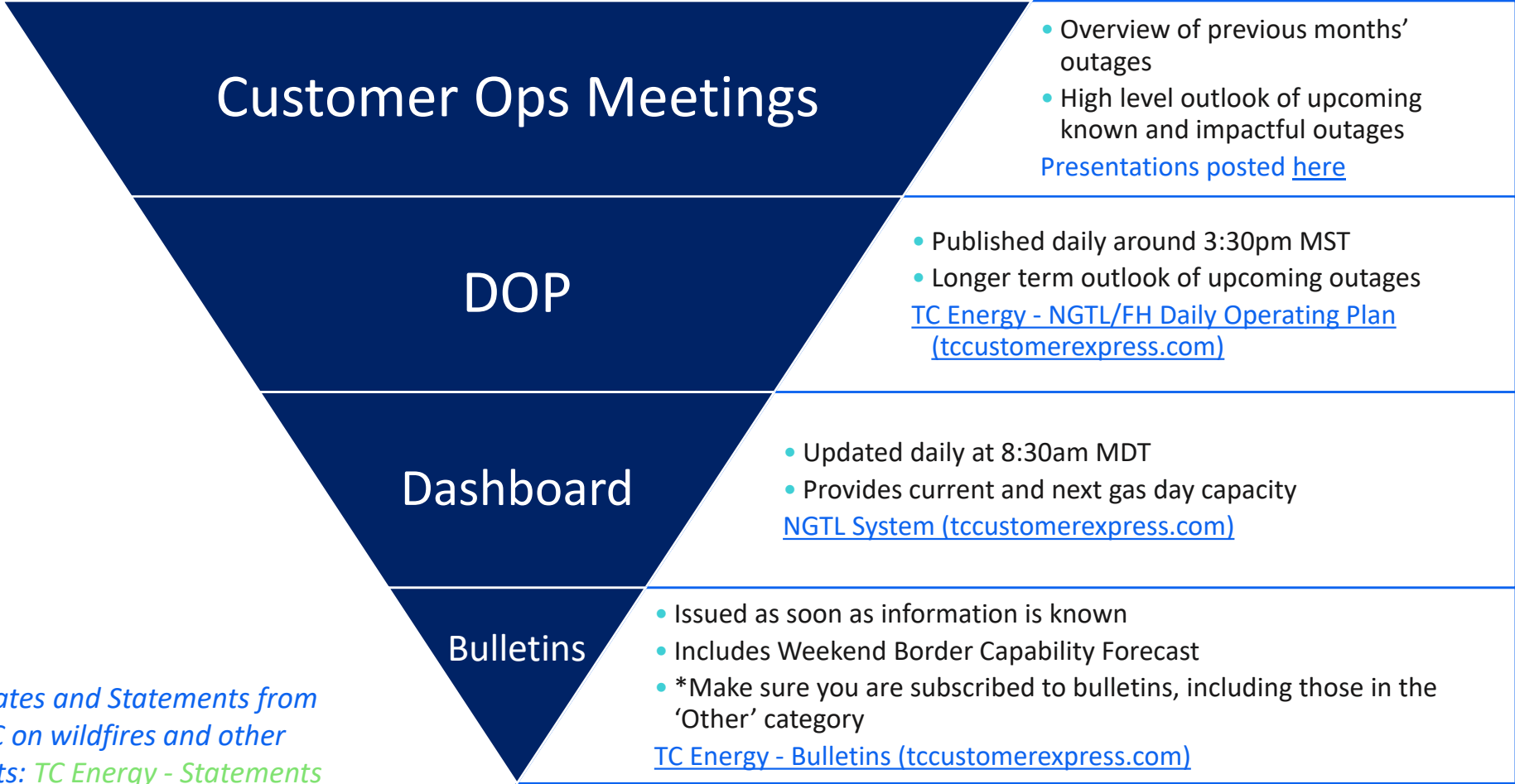
Chair, NGTL/FH Customer Ops

403.920.5804

[minh\\_badau@tcenergy.com](mailto:minh_badau@tcenergy.com)



# Outage Communication Tools: Order



*Updates and Statements from TC on wildfires and other events: [TC Energy - Statements](#)*

Each level of communication supersedes all information provided in communications above it.

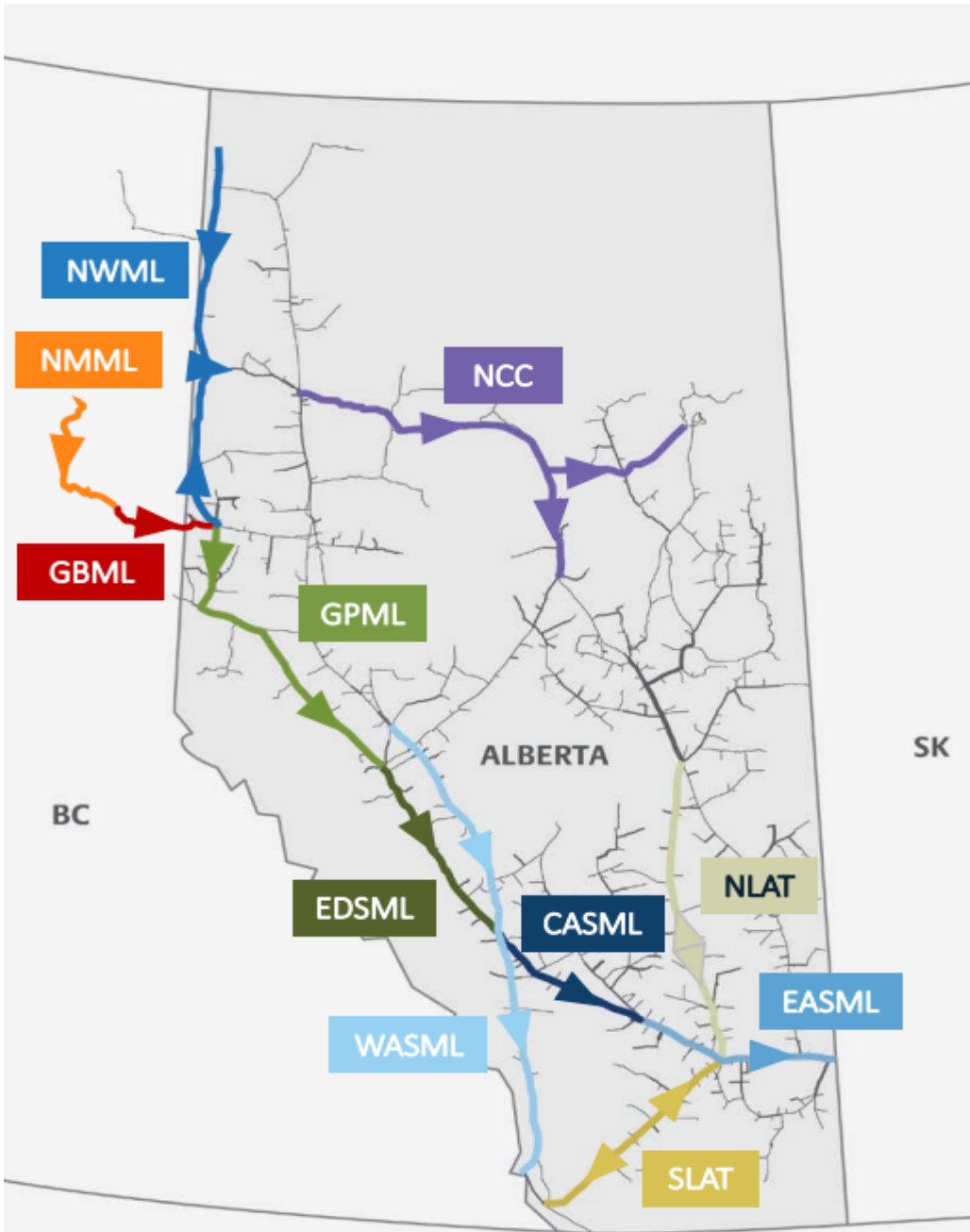


# Glossary of Terms

- ❖ **DOP:** Daily Operating Plan [DOP](#)
- ❖ **NGTL:** Nova Gas Transmission Ltd.
- ❖ **FH:** Foothills Pipeline System (BC or SK)
- ❖ **ISD:** In-Service Date
- ❖ **ILI:** Inline Inspection
- ❖ **Transportation Services**
  - ❖ **IT-R:** Interruptible Transportation - Receipt
  - ❖ **IT-D:** Interruptible Transportation - Delivery
  - ❖ **FT-R:** Firm Transportation - Receipt
  - ❖ **FT-D:** Firm Transportation - Delivery

- ❖ **Operational Areas**
  - ❖ **USJR:** Upstream James River
  - ❖ **WGAT:** West Gate
  - ❖ **EGAT:** East Gate
  - ❖ **OSDA:** Oilsands Delivery Area
  - ❖ **NEDA:** North-East Delivery Area

# Commonly Referenced Flow Paths



- North Montney Mainline (NMML)
- Groundbirch Mainline (GBML)
- Northwest Mainline (NWML)
- North Central Corridor (NCC)
- Grande Prairie Mainline (GPML)
- Edson Mainline (EDSML)
- Western Alberta System Mainline (WASML)
- Central Alberta System Mainline (CASML)
- Eastern Alberta System Mainline (EASML)
- South Lateral (SLAT)
- North Lateral (NLAT)

