



NGTL System and Foothills Pipelines Ltd.

CUSTOMER OPERATIONS MEETING

FOR INFORMATIONAL PURPOSES ONLY



08/01/2024



Welcome and Thank You for Joining Us

Participating via WebEx:

- Please sign-in through WebEx application including your full name and company
- To reduce background noise and improve audio quality, all WebEx participants will be placed on mute when entering the meeting
- Please submit your questions via using the raise hand function and coming off mute or the chat function and we will answer at the best possible opportunity



The 4 injuries doctors see most in the summer


Warm weather and longer days will bring many people outdoors for cookouts, water sports and more.

But did you know warm weather also leads to **more** trips to urgent care or even the emergency room?



Swimming injuries & drowning

- Don't swim after eating
- Don't swim under the influence
- Enter the water feet first




Food poisoning

- Don't leave food out in the heat
- Wash hands before cooking or eating
- Properly wash produce



Sun burns

- Wear sunscreen (SPF < 30)
- Wear protective clothing
- Sit in the shade



Heat-related illness

- Wear sunscreen (SPF < 30)
- Avoid being outside for too long
- Stay hydrated



Avoiding complacency is the key to summertime safety!



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 August 1, 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. Review of July Operations
2. Review of Upcoming 2024 Outages

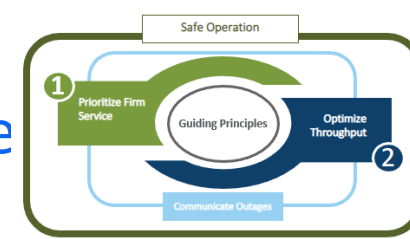


08/01/2024

Review of July Operations

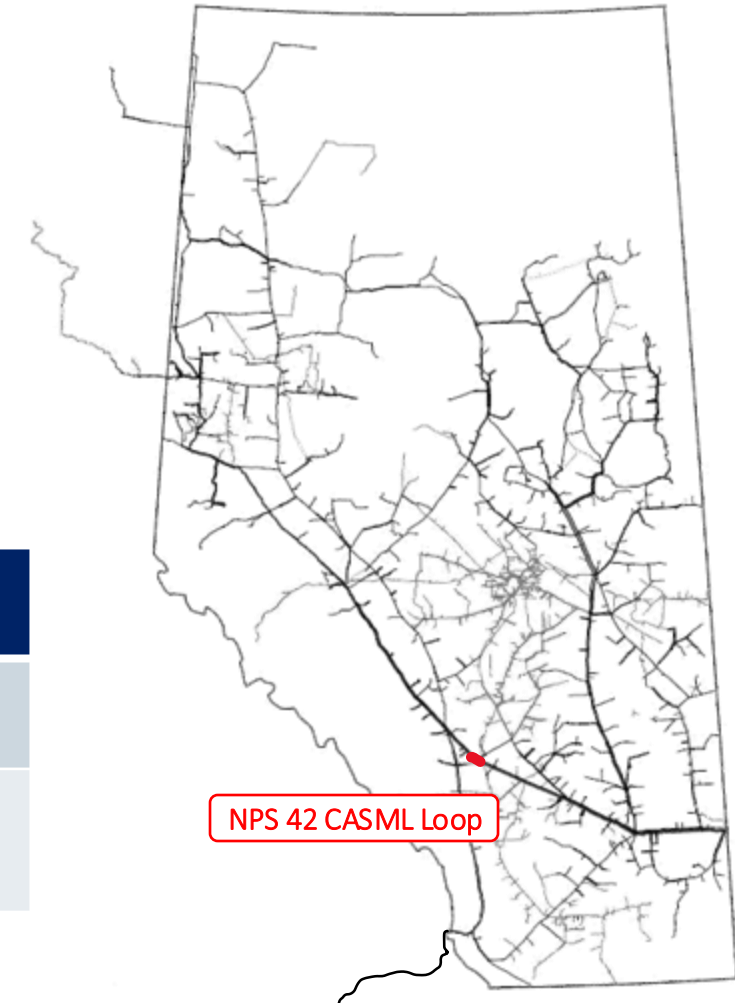


NPS 42 Central Alberta System Mainline Loop – Pipeline Maintenance



Background:

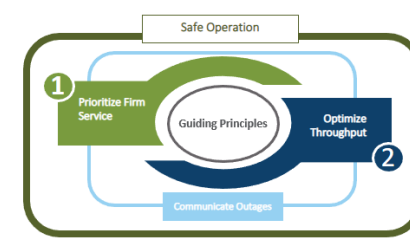
- **Unplanned:**
 - NPS 42 CASML Loop Pipeline Maintenance: July 1 – 19
- **Capability communicated in DOP:**
 - July 1 – 7: 149 10⁶m³/d
 - July 8 – 13: 142 10⁶m³/d (lower capacity due to overlap with planned NCC outages)
 - July 14 – 19: 149 10⁶m³/d
- **Service Allowable:**
 - Lower EGAT: 0% IT-D, 100% FT-D



Bulletin Date	Effective Date	Service Allowable	Comments
July 2	July 8 (08:00 MST)	Lower EGAT: 0% IT-D, 100% FT-D	Bulletin issued
July 9	July 10 (08:00 MST)	Lower EGAT: 100% IT-D, 100% FT-D	Maintenance work ongoing; however, observed net storage withdrawals resulting in higher capability at EGAT

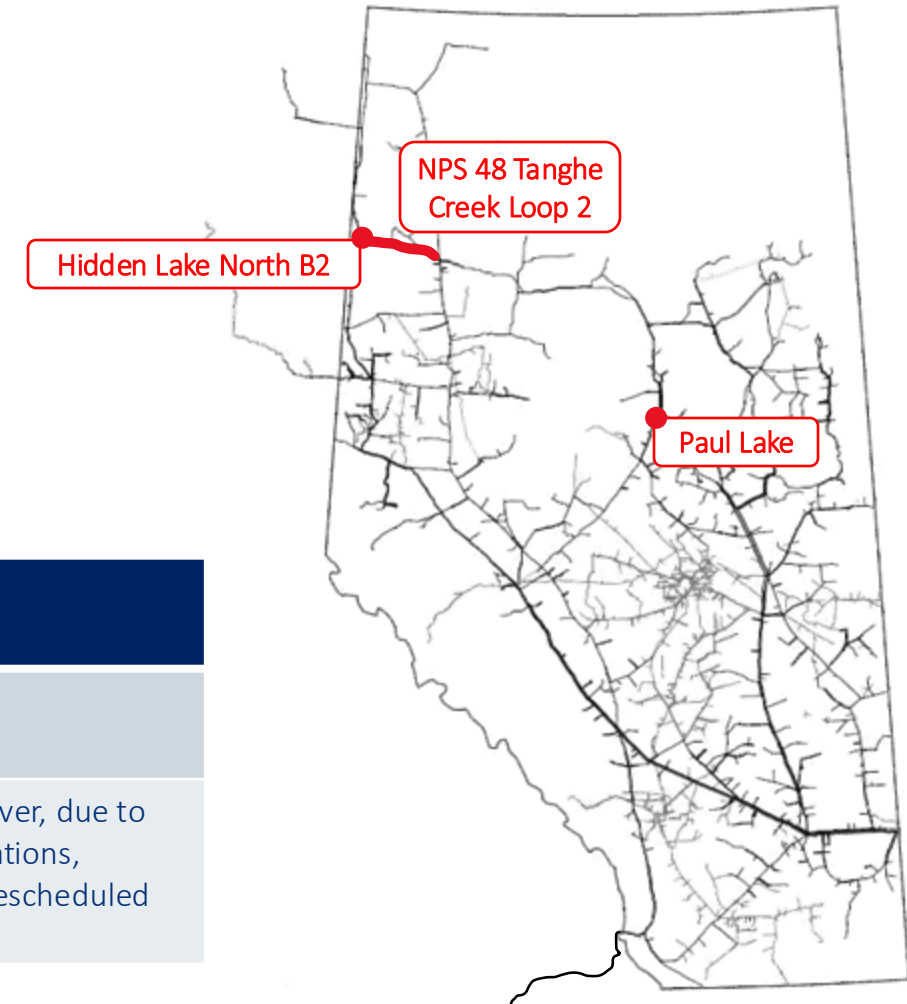


NPS 48 Tanghe Creek Loop 2 – Pipeline Maintenance



Background:

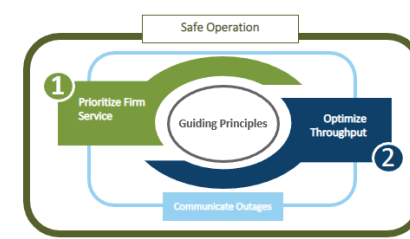
- **Planned:**
 - NPS 48 Tanghe Creek Loop 2 Pipeline Maintenance: July 9 – 12
 - Hidden Lake North B2 Compressor Station Maintenance: July 8 – 13
 - Paul Lake Compressor Station Maintenance: July 8 – 12
- **Capability communicated in DOP:**
 - July 8: 362 10⁶m³/d
 - July 9 - 12: 353 10⁶m³/d
 - July 13: 363 10⁶m³/d
- **Service Allowable:**
 - USJR: 0% IT-R, 100% FT-R



Bulletin Date	Effective Date	Service Allowable	Comments
July 2	July 8 (08:00 MST)	USJR: 0% IT-R, 100% FT-R (Upstream of Latornell)	Bulletin issued
July 12	July 12 (13:00 MST)	USJR: 100% IT-R, 100% FT-R	Maintenance work completed; however, due to some unforeseen execution complications, additional tool runs will need to be rescheduled for a later date



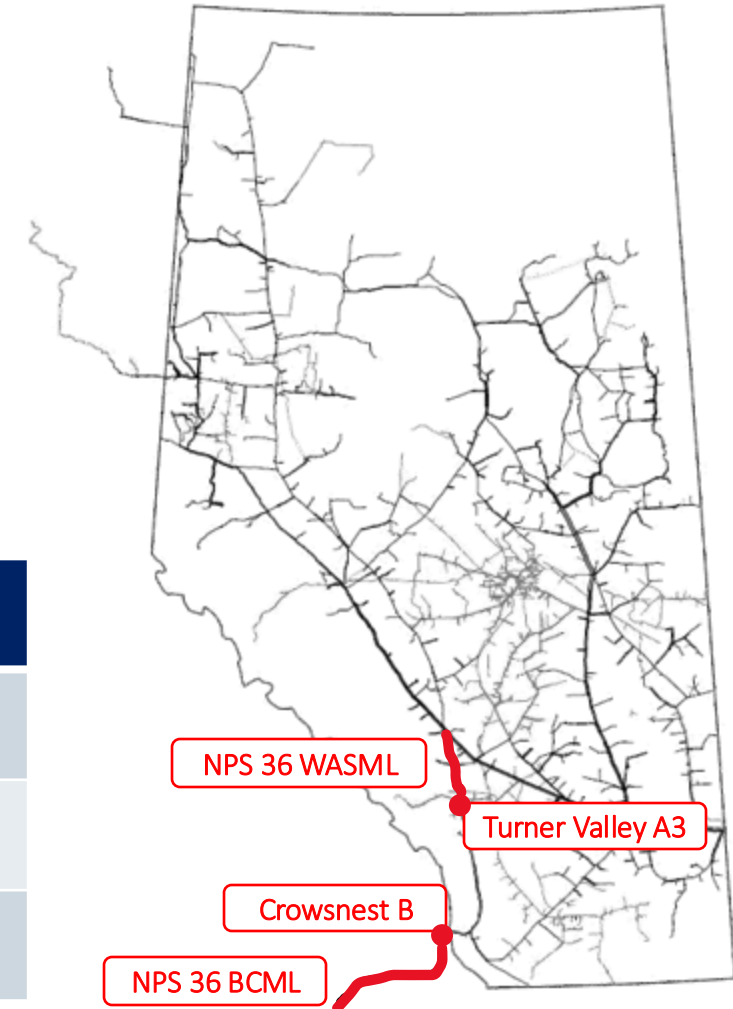
West Gate Maintenance



Background:

- **Planned:**
 - FHBC: NPS 36 British Columbia Mainline Pipeline Maintenance: July 15 – 24
 - FHBC: Crowsnest B Compressor Station Maintenance: July 15 – 19
 - NGTL: Turner Valley A3 Compressor Station Maintenance: July 15 – 19
 - NGTL: NPS 36 Western Alberta System Mainline Pipeline Maintenance: July 18 – 24
- **Capability communicated in DOP:**
 - FHBC: 68 10⁶m³/d (July 15 – 17)
 - NGTL: 66 10⁶m³/d (July 18 – 24)
- **Service Allowable:**
 - FHBC: 0% IT, Partial FT (July 15 – 17)
 - NGTL: 0% IT-D, Partial FT-D (July 18 – 25)

Bulletin Date	Effective Date	Service Allowable	Comments
July 10	July 15 (08:00 MST)	FHBC: 0% IT, Partial FT	Bulletin issued for FHBC maintenance
July 15	July 18 (08:00 MST)	FHBC: 100% IT, 100% FT NGTL: 0% IT-D, Partial FT-D	More impactful NGTL Maintenance starts
July 24	July 25 (08:00 MST)	NGTL: 100% IT-D, 100% FT-D	NGTL and FHBC Maintenance completed



2024 Operational Outlook

(From DOP as of Wednesday, July 31)



2024 Outages

- All known planned outages at this time have been added to the DOP
- 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

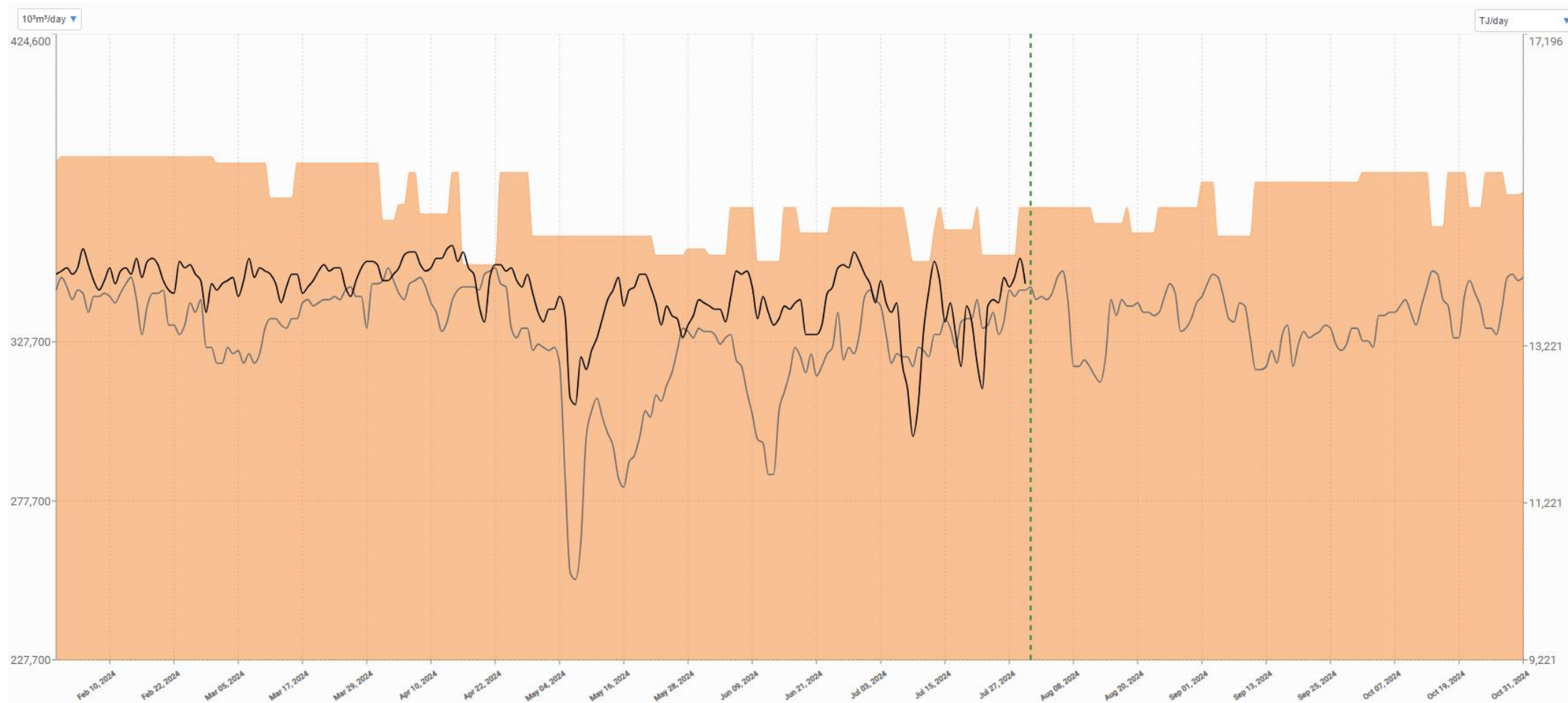
Outages and/or maintenance work is posted to the DOP if there is reasonable expectation that the event could or will result in a change to service authorization levels.

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



May not be accurate beyond August 1. 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 ⁶ m ³ /d)	USJR Impact (10 ⁶ m ³ /d)	Area Outage Capability (10 ⁶ m ³ /d)	Outage Area Typical Flows (10 ⁶ m ³ /d)	Service Allowable Location/Area
NPS 36 WAS Mainline Extension – Pipeline Maintenance	12-Aug-24	17-Aug-24	365	5	233	195 - 225	Potential impact to FT-R USJR U/S Latornell
Swartz Creek – Compressor Station Maintenance	19-Aug-24	23-Aug-24	362	8	267	230 – 260	Potential impact to FT-R USJR U/S Berland
Latornell A1 – Compressor Station Maintenance	19-Aug-24	23-Aug-24	366	4	271	230 - 260	Potential impact to FT-R USJR U/S Berland
Meikle River C – Compressor Station Maintenance	4-Sep-24	10-Sep-24	361	17	229	195 - 225	Potential impact to FT-R USJR U/S Latornell
Alces River – Compressor Station Maintenance	4-Sep-24	6-Sep-24	368	10	236	195 - 225	Potential impact to FT-R USJR U/S Latornell
Meikle River D5 – Compressor Station Maintenance	14-Oct-24	16-Oct-24	364	17	232	195 - 225	Potential impact to FT-R USJR U/S Latornell
Goodfish – Compressor Station Maintenance	21-Oct-24	23-Oct-24	370	11	238	195 - 225	Potential impact to FT-R USJR U/S Latornell
Latornell – Compressor Station Maintenance	28-Oct-24	30-Oct-24	374	7	279	230 - 260	Potential impact to FT-R USJR U/S Berland River
Latornell A2 – Compressor Station Maintenance	28-Oct-24	31-Oct-24	375	6	280	230 - 260	Potential impact to FT-R USJR U/S Berland River

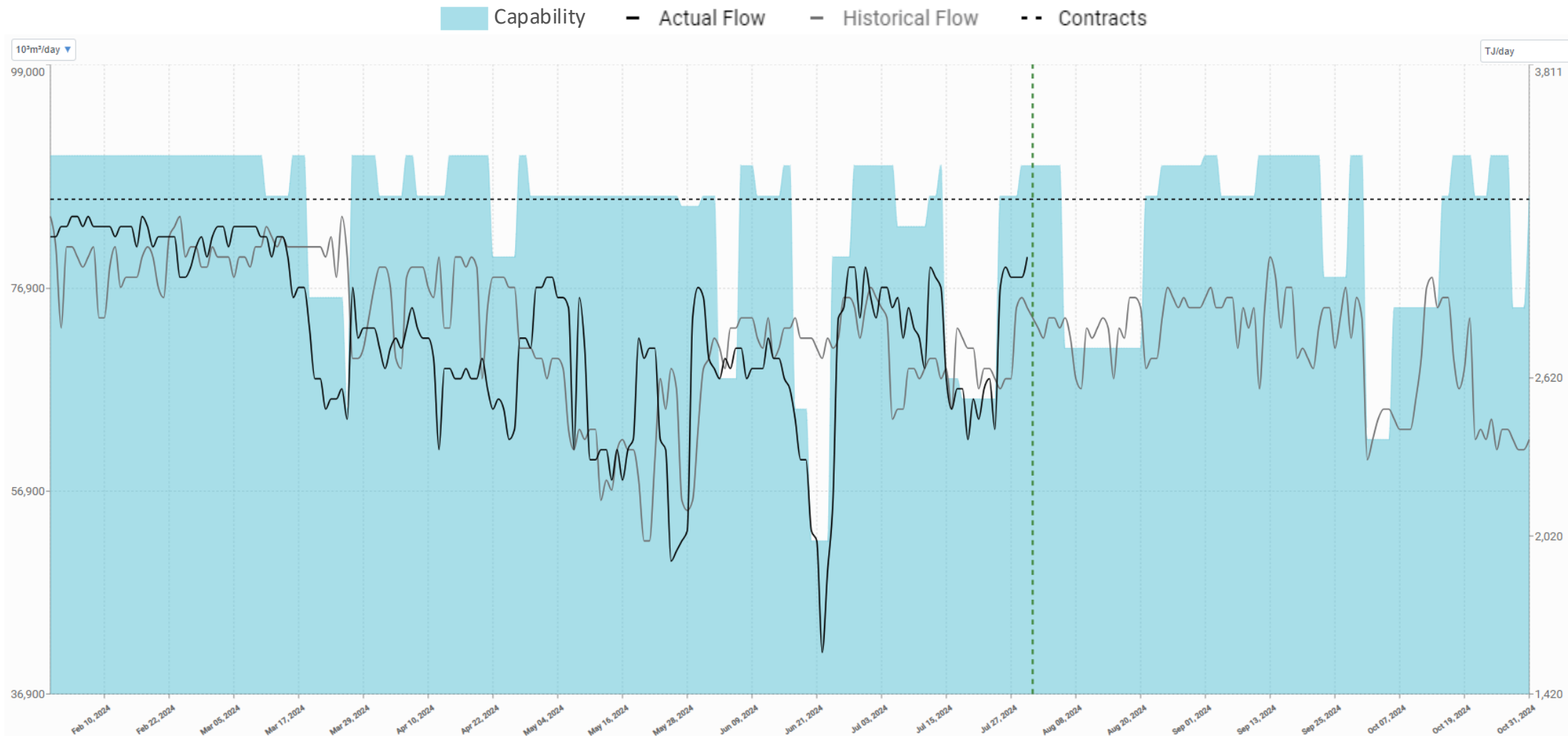
*Local area outage – if upstream Saddle Hills supply exceeds capability, the broad area restriction methodology is not expected to be effective

May not be accurate beyond August 1. Please refer to the DOP on TC Customer Express for current outage information.



Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)



May not be accurate beyond August 1. 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

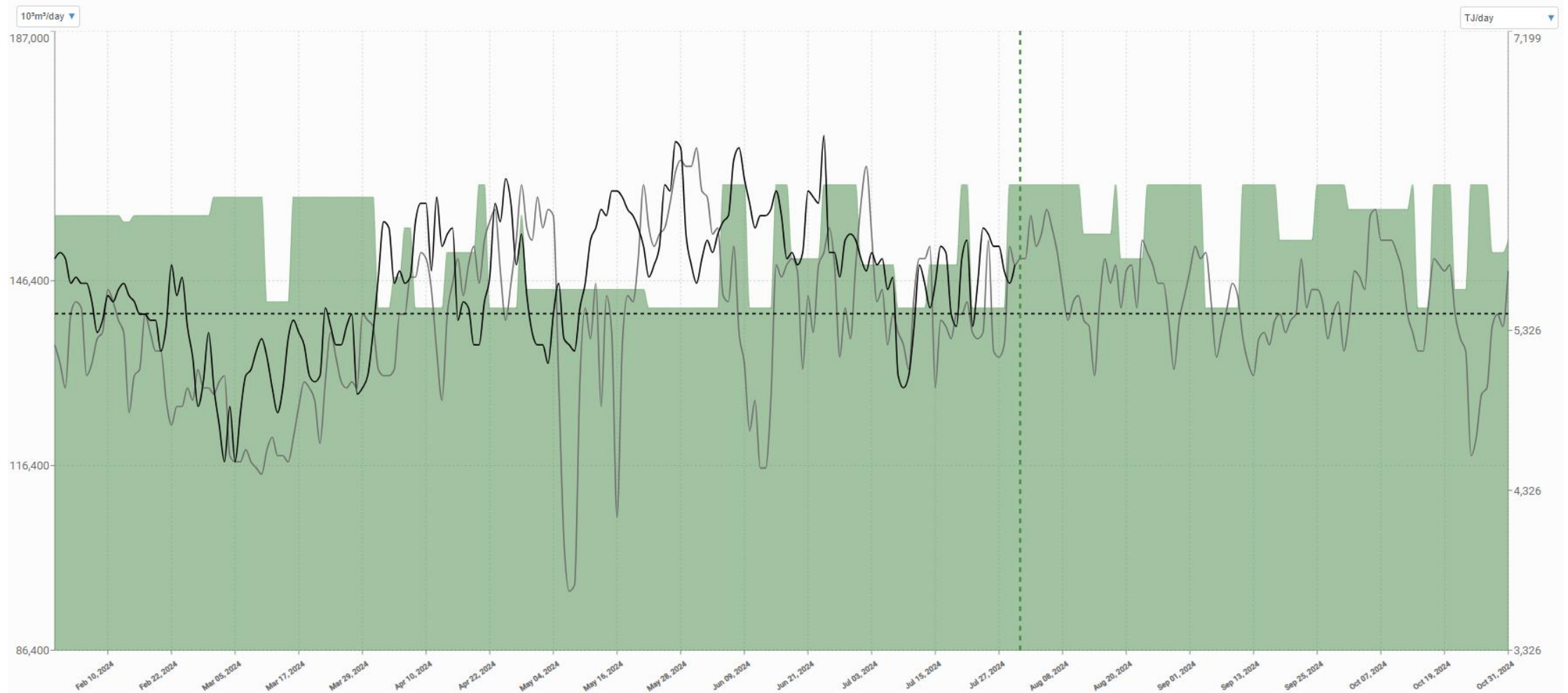
Outage Description	Start	End	Capability (10 ⁶ m ³ /d)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
Elko – Compressor Station Maintenance	6-Aug-24	20-Aug-24	71	18	Potential Impact to FT Foothills BC
Burton Creek A3 – Compressor Station Maintenance	23-Sep-24	27-Sep-24	78	12	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Moyie – Compressor Station Maintenance	1-Oct-24	5-Oct-24	62	28	Potential Impact to FT Foothills BC
Turner Valley – Compressor Station Maintenance	1-Oct-24	14-Oct-24	75	15	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Crowsnest K – Compressor Station Maintenance	28-Oct-24	30-Oct-24	75	15	Potential Impact to FT Foothills BC

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 August 1. 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 August 1. 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 ⁶ m ³ /d)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
NPS 34 Central & Eastern Alberta System Mainline Loop – Pipeline Maintenance	18-Sep-24	24-Sep-24	153	9	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Crawling Valley – Compressor Station Maintenance	1-Oct-24	12-Oct-24	158	4	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

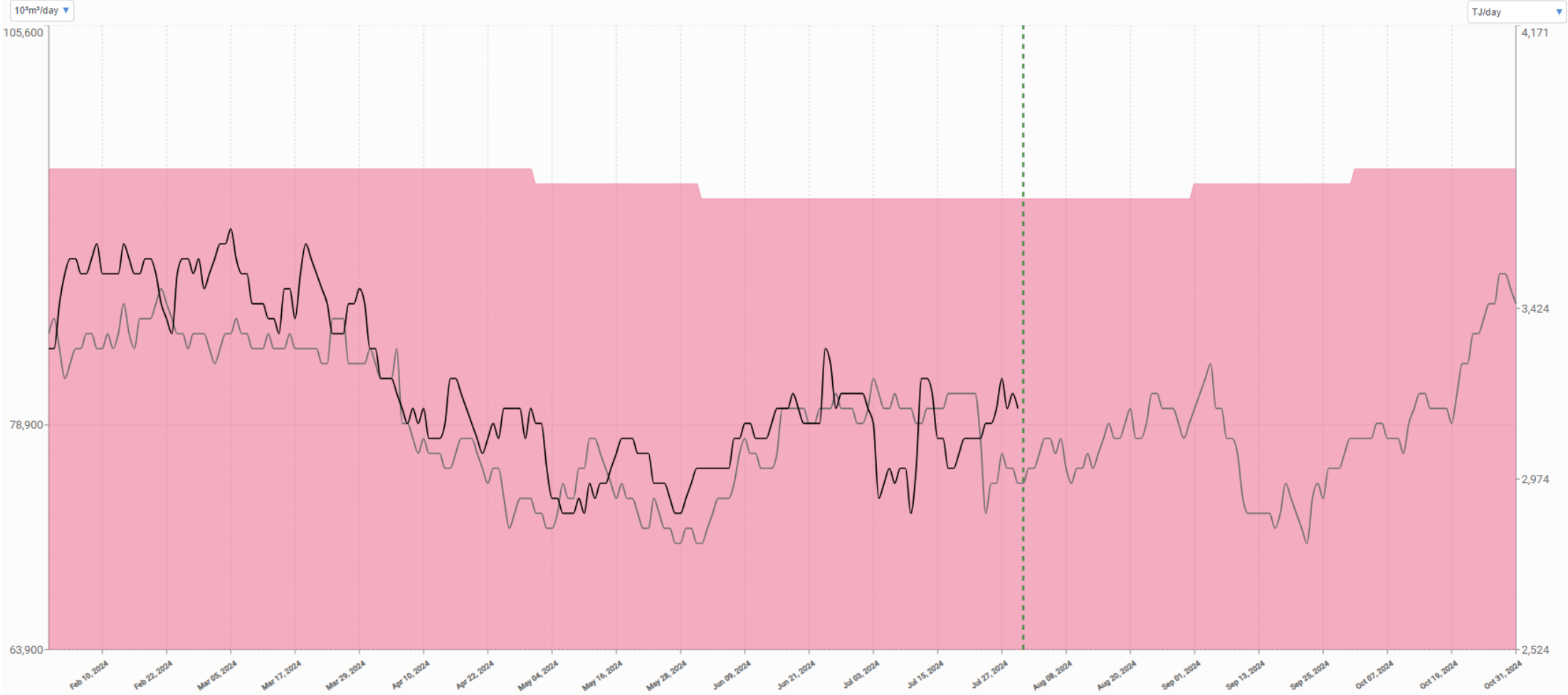
Note: Outages located in the USJR area show up in the EGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

May not be accurate beyond August 1. Please refer to the DOP on TC Customer Express for current outage information.



Oil Sands Delivery Area

■ Capability - Actual Flow - Historical Flow



May not be accurate beyond August 1. 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

There are currently no outages planned that have potential to impact service specific to OSDA or NEDA

May not be accurate beyond August 1. Please refer to the DOP on TC Customer Express for current outage information.



CONTACTS



MARKETING REPS

[Customer Express Contacts
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NELSON JALOTJOT

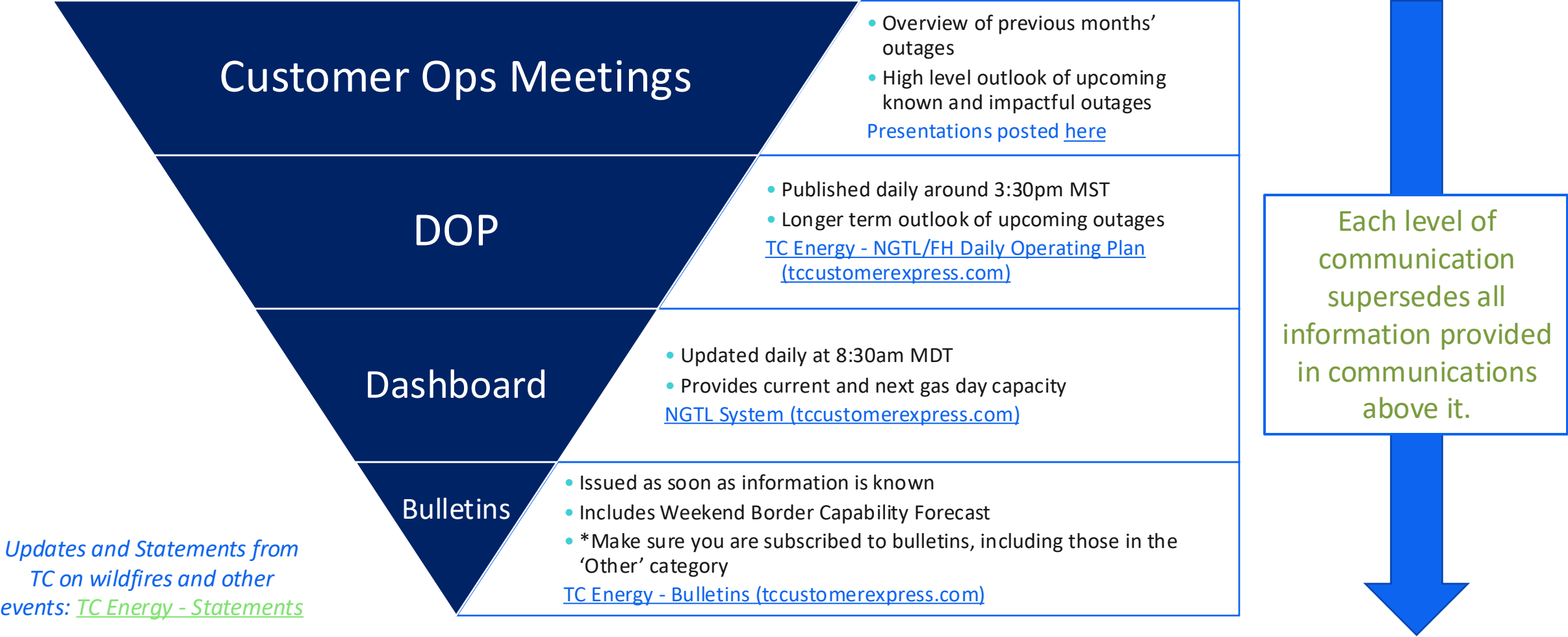
Chair, NGTL/FH Customer Ops

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Outage Communication Tools: Order

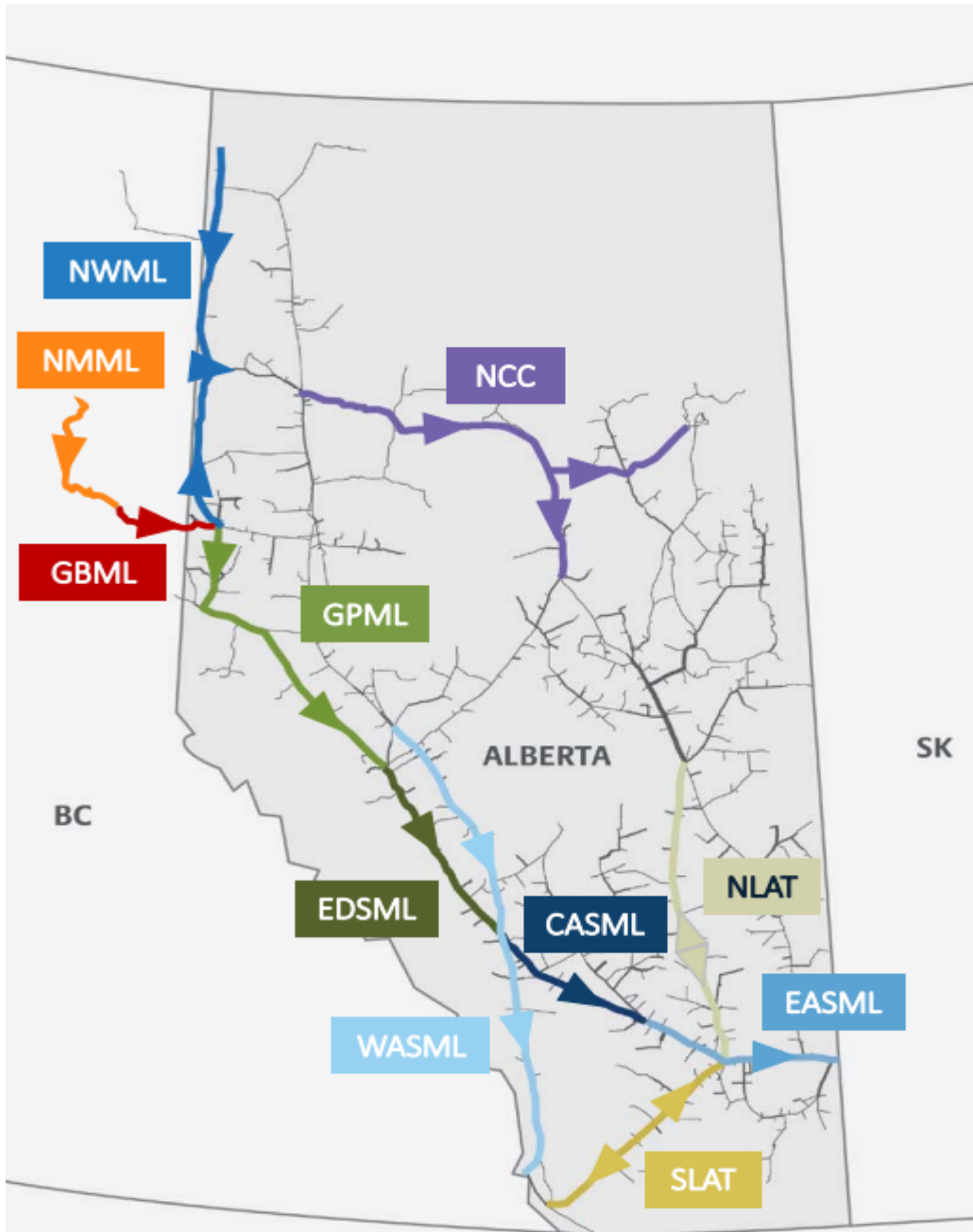


Glossary of Terms

- ❖ **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)

