# () TC Energy

# NGTL System and Foothills Pipelines Ltd.

### CUSTOMER OPERATIONS MEETING

FOR INFORMATIONAL PURPOSES ONLY





### 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

### **(A)** SAFETY MOMENT Sidewalk and Shoveling Safety

#### Alberta's Freeze/Thaw cycle is upon us... what can you do to keep your sidewalks safe?

#### De-Icing is key.

- Local Fire departments offer "Pickle Mix" (sand-salt mix) for free
- Ensure de-icing materials are petsafe
- Replace often as deicer washes away during thaw periods

#### Practice Safe Shoveling.

- Stretch
- Wear adequate winter clothing, including boots with good traction
- Take breaks
- Use proper form when shoveling
  - Push snow instead of lifting when possible
  - Use your knees, not your back to lift

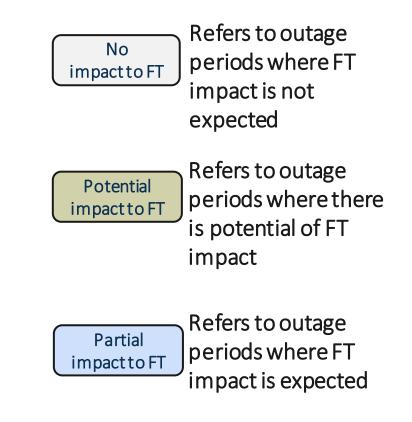
#### Be a Good Neighbour.

See a neighbour struggling to keep up? Be a snow angel and lend a hand!



### **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.





Outage information in this presentation may not be accurate beyond the February 1, 2024, NGTL/Foothills Customer Operations (WebEx only) meeting For current outage and capability information, please refer to the most recent Daily Operating Plan (DOP), the <u>Dashboard</u> and <u>bulletins</u> 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 <u>Marketing</u> <u>Representative</u>

# Agenda



- 1. Projects Update
- 2. Review of January Cold Weather Event
- 3. Review of Upcoming 2024 Outages
- 4. SD Accounts / Pipeline Tolerance

# **Projects Update**

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### Project Updates: ISD Summary (since December 7, 2023 update)

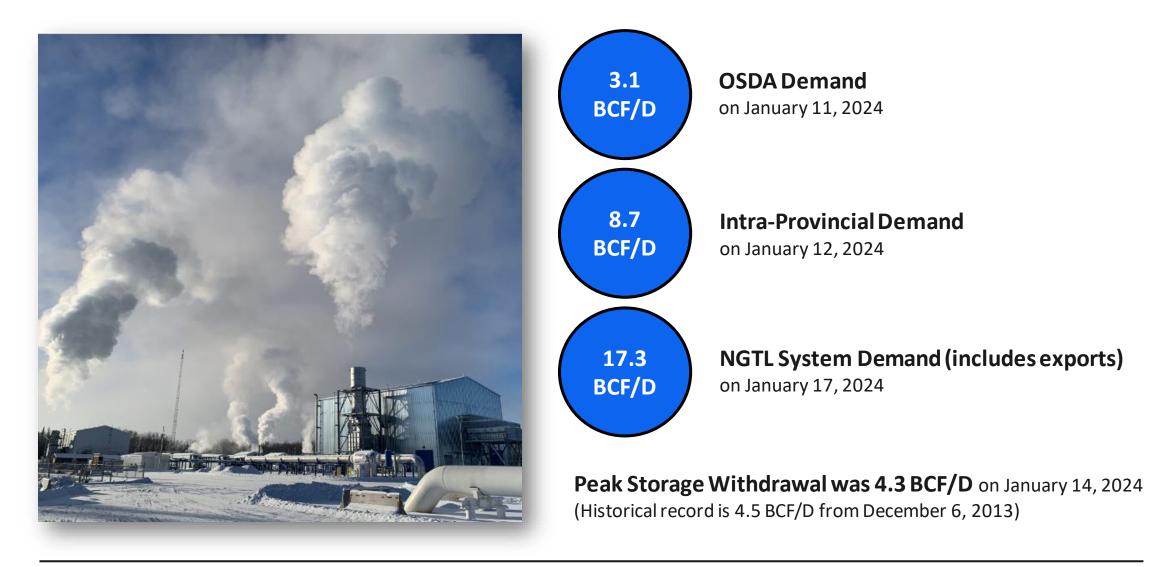
NGTL:	
Intra-Basin Expansion	<ul> <li>Saddle Hills Unit Addition (ISD April 2024)         <ul> <li>91% construction complete</li> <li>64% commissioning complete</li> </ul> </li> <li>Emerson Creek Compressor Station (ISD April 2024)         <ul> <li>99% construction complete</li> <li>77% commissioning complete</li> </ul> </li> </ul>
Valhalla North / Berland River (VNBR) (ISD April 2026)	<ul> <li>Ongoing discussion with Altalink about connection to Berland River</li> <li>Possiblity of ISD moving from first to second half of 2026</li> </ul>

Availability of capacity remains subject to: Ground conditions, weather & road access/conditions, heated labour market, environmental and regulatory requirements and LTO approval by the CER

# January Extreme Cold Weather Event

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### Extreme Cold | Record Breaking Event



## **Extreme Cold** | Preparation

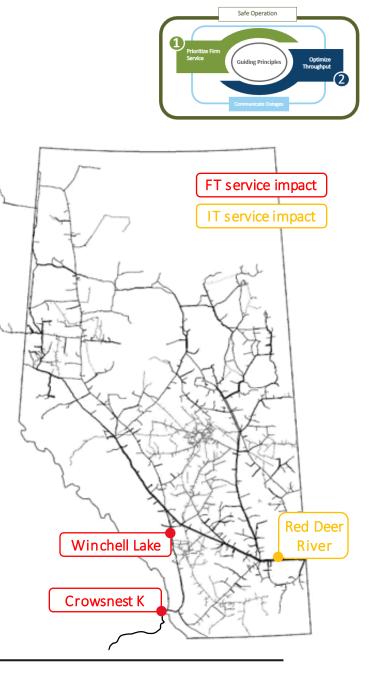
Our teams were proactive and worked attentively to prepare the system and minimize impacts

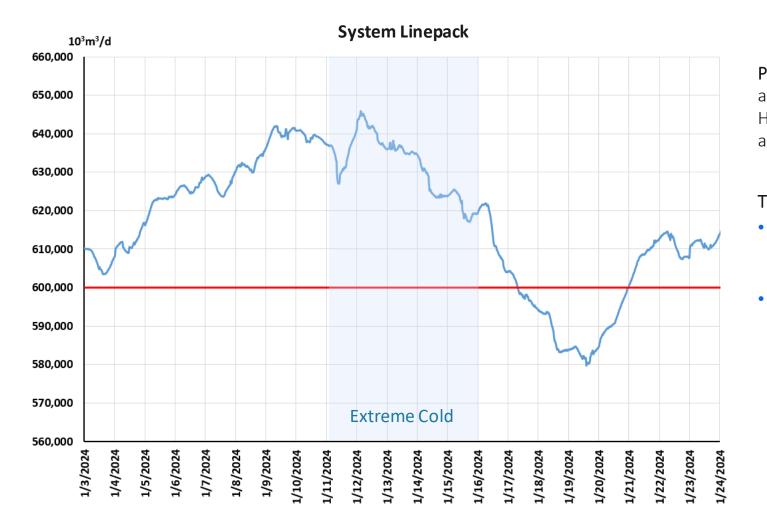
In anticipation of the cold-weather snap we:

- Held focused discussions on reliability and developed mitigation strategies
- Ensured healthy overall system linepack leading into the event
- Proactively deferred any non-critical work
- Strategically staged resources geographically to minimize response times
- Scheduled cold temperature fuel mapping that could only be completed in the extreme temperature range

The system was able to absorb multiple short duration unplanned breakdowns.

Firm service for USJR, NEDA, and EGAT was not impacted throughout the extreme cold weather event.

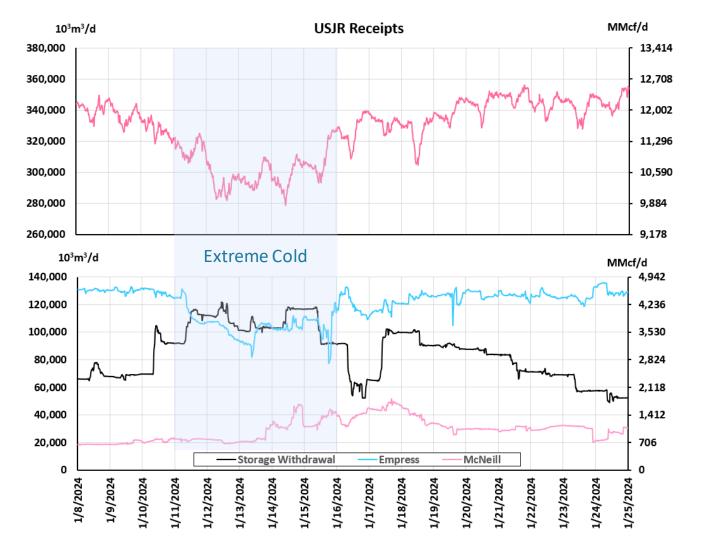




**Prior to Jan 11:** System proactively positioned in anticipation of supply freeze-offs and high demand. Healthy overall system linepack and distributed well across all areas

#### Thursday, January 11:

- 4:00 PM: Bulletin for WGAT (NGTL) Partial FT-D restriction effective Jan 12 @ 08:00 due to high intra-demand + new de-rate
- Evening:
  - Unplanned outage at Crowsnest C/S
  - Unplanned maintenance at Winchell Lake C/S



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#### Friday, January 12:

- 6:45 AM: Bulletin for WGAT (FHBC) Partial FT restriction @ 13:00 due to unplanned outage at Crowsnest C/S
- Rapid decrease in supply due to freeze-offs
- Significant increase in storage withdrawals
- Significant decrease in Empress demand
- Overall system linepack packing
- Requested assistance from OBA partners, where gas was coming onto the system (storage), to reduce overall system linepack



For Gas	Day 11	For Gas	Day 12
Tolerance & Accounts	Value	Tolerance & Accounts	Value
Tolerance (%)	-1/1	Tolerance (%)	-1/1
(Last Changed 2023-08-03 08:00:00)	- 0/0-	(Last Changed 2023-08-03 08:00:00)	- 0/0-
Total SD Account (TJ)	<b>231.3 ^</b> 0.2	Total SD Account (TJ)	<b>1,462.2 ^</b> 1,230.9
Total OBA Account (TJ)	<b>1,201.8 ∧</b> 438.5	Total OBA Account (TJ)	<b>-200.6 ∨</b> 1,402.4
(Published mor	rning of Jan 12)	(Published mo	orning of Jan 13)

#### Saturday, January 13:

- Observed extreme pack of Customer S/D account for Gas Day 12 (pack of ~1231 TJs)
- Observed expected decrease in OBA account for Gas Day 12 (draft of ~1402 TJs)
- Further decrease in Empress demand
- High pressures in supply extremities
- Further assistance requested from OBA partners
- 8:00 AM: Issued tolerance change warning
- 10:00 AM: Issued tolerance change from -1/+1 to -2/0

REMINDER: The Customer S/D account and OBA account are functionally independent, but both influence overall system linepack



Tolerance & Accounts	Value
Tolerance (%)	-2/0
(Last Changed 2024-01-13 08:00:00)	✓ 1/1 ✓
Total SD Account (TJ)	<b>362.7 ∨</b> 1,099.6
Total OBA Account (TJ)	<b>973.6 ^</b> 1,174.1

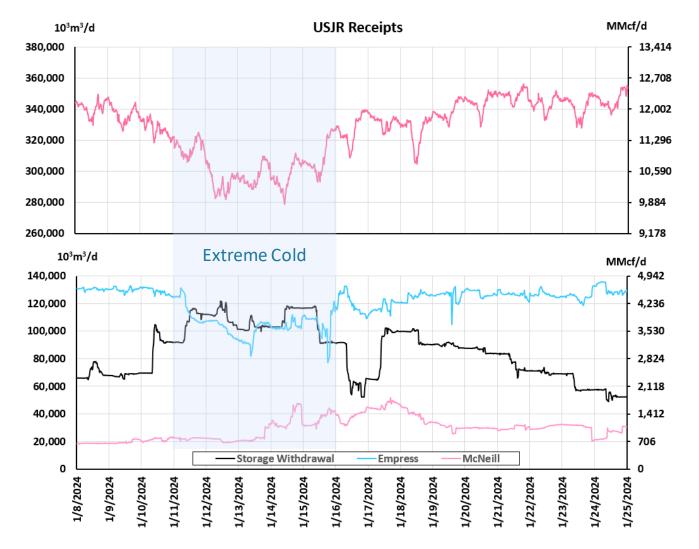


#### Sunday, January 14:

- Overall system linepack lower following previous days tolerance change
- Significant increase in McNeill demand
- Increase in Empress demand
- Delays with startup of some EGAT horsepower due to extreme cold. All critical horsepower online by late afternoon except for Red Deer River C/S

#### Monday, January 15:

- Continuation of high export demand (both Empress and McNeill)
- Inability for OBA assistance at Empress and McNeill with ongoing startup issues with Red Deer River C/S
- 5:00 PM: Bulletin for 0% IT-D for Empress and McNeill effective Jan 16 @ 08:00 due to unplanned outage at Red Deer River C/S
- Evening: Red Deer River C/S returned to service



#### Tuesday, January 16:

- Warmer weather returns!
- Start of supply recovery
- Decrease in storage withdrawals
- Continuation of high export demand (both Empress and McNeill)
- 11:00 AM: Bulletin to lift Empress and McNeill restriction effective Jan 16 @ 17:00 with Red Deer River C/S returned to service and confirmation of unit reliability

#### Wednesday, January 17:

• Evening: All units at Crowsnest C/S returned to service

#### Thursday, January 18:

• 6:50 AM: Bulletin to lift WGAT (FHBC) restriction effective Jan 18 @ 13:00 with Crowsnest C/S returned to service and confirmation of unit reliability

## Extreme Cold | West Gate (WGAT)

Safe Operation

Service

Guiding Principles

Optimize
Throughput

Communicate Outages

#### Why was the WGAT (NGTL) restriction implemented on Jan 12?

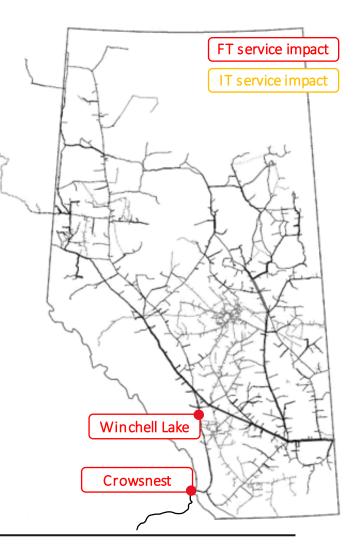
- High intra-demand (Calgary Area) resulting in less gas available for AB-BC and AB-MN
- New derate that required immediate implementation the afternoon of Jan 12
- Inability for downstream interconnects to absorb a shortfall into the OBA account

### Why was the restriction changed to the FHBC system shortly after the NGTL restriction was implemented?

• The unplanned outage at the Crowsnest C/S resulted in an overall WGAT capacity bottleneck on the FHBC system. Therefore, the NGTL Partial FT-D restriction was lifted and the FHBC Partial FT restriction was implemented.

### Why did authorization level for the FHBC start at 70 $10^{6}$ m<sup>3</sup>/d and eventually increase to 77 $10^{6}$ m<sup>3</sup>/d?

• The Crowsnest C/S consists of 4 units. Initially all units were offline; however, some of the smaller units were returned to service which allowed for the slow increase in authorization level while also allowing for OBA recovery.



## Extreme Cold | East Gate (EGAT)

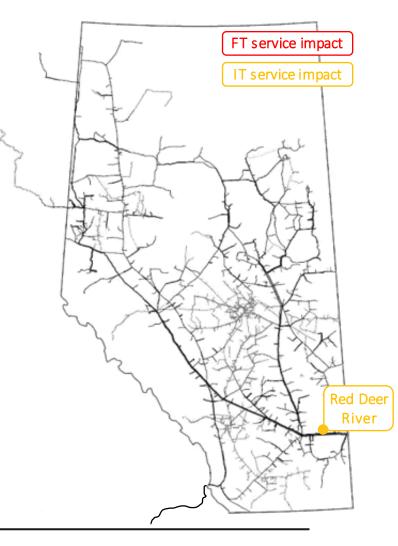
#### Why did the EGAT IT-D restriction only include Empress and McNeill?

• Geographic location of the Red Deer River C/S (downstream of connected storage, upstream of Empress and McNeill)

#### Why was the restriction implemented and then lifted so quickly?

- Did not have confidence in return timeline of Red Deer River C/S given the complexities of the required maintenance and added complication of the extreme cold.
- Interconnecting OBA partners were not able to absorb a miss without further impacts on to their Customers
- Thanks to the dedication and expertise of our technicians, the unit was returned to service quickly and the restriction was lifted at the earliest opportunity following confirmation of reliability



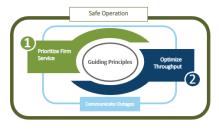


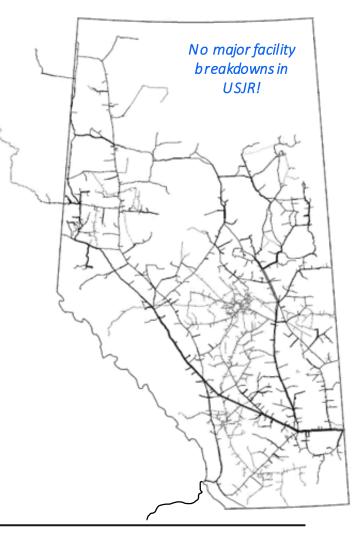
#### No impacts to FT-D at EGAT

## Extreme Cold | Upstream James River (USJR)

- Observed ~70  $10^6 m^3/d$  (~2.4 Bcf/d) of supply reduction due to freeze-offs over 3 days in USJR
- Despite supply decrease, temporary high pressures experienced at receipt extremities during the period of high system linepack (coincident with the high S/D account balance)
  - Once Customers balanced their accounts and tolerance change was made, overall system linepack and pressures were reduced.
- No major facility breakdowns on the key egress flow paths for supply out of the USJR area (North Central Corridor, Grande Prairie Mainline, or Edson Mainline paths)
- Observed supply recovery of ~40 10<sup>6</sup>m<sup>3</sup>/d (~1.4 Bcf/d) over 3 days when ambient temperatures started to increase following the extreme cold period

Service allowable for USJR remained unrestricted



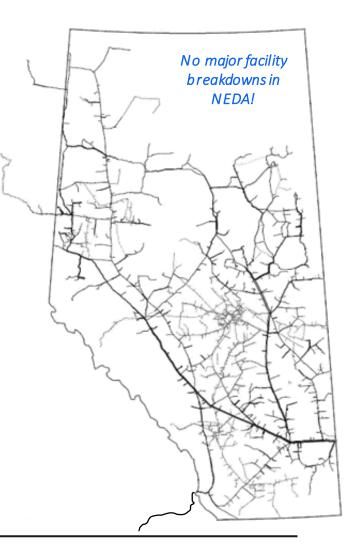


# Extreme Cold | North East Delivery Area (NEDA)

Despite record breaking OSDA demands, linepack remained extremely strong throughout the entire extreme cold weather event

- Focus from Operations Planning and Gas Control teams on proactively distributing and increasing linepack for NEDA as much as possible prior to and during the event
  - Including proactive deferral of non-critical outage work
- Strategically staged resources geographically to minimize response times
- Increased capability across the NCC following in-service of the North Corridor Expansion Project last year
- No major facility breakdowns on key supply flow paths into NEDA (North Central Corridor and North Lateral paths)

Service allowable for NEDA remained unrestricted



2/1/2024



### 2024 Operational Outlook (From DOP as of Wednesday, January 31)

### 2024 Outages

- Outages with the most significant impact to system capability were added to the DOP on November 1, 2023
- All known outages planned for Q1 and most Q2 outages were added before the last Customer Operations meeting on December 7, 2023
- All known planned outages for the remainder of 2024 have now been added to the DOP
- Start and End Dates, Durations, Capability, Area of impact may be revised as new information becomes available

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.

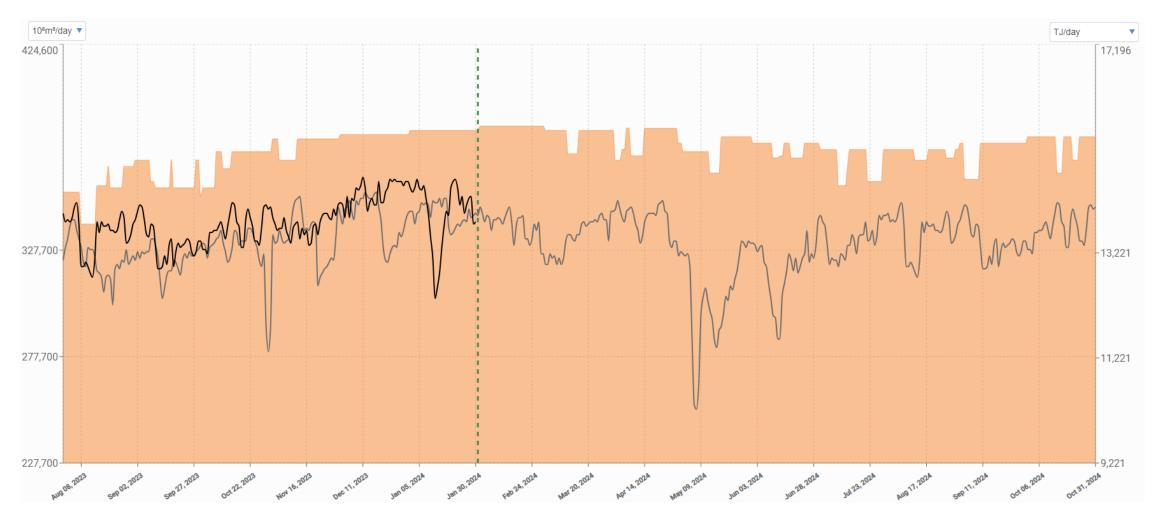
### Daily Operating Plan (DOP): Facility Assumptions

Date	Expansion Facilities
April 2024	Intra-basin Expansion: • Emerson Creek Compressor Station • Saddle Hills C4 Unit Addition

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### Upstream James River

Capability - Actual Flow - Historical Flow



May not be accurate beyond the February 1 NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information.

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### Upstream James River Receipt Area (USJR)

No impactto FT Potential

impactto FT

Partial impactto FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m³/d)	USJR Impact (10⁵m³/d)	Area Outage Capability (10 <sup>6</sup> m³/d)	Outage Area Typical Flows (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
Goodfish A2 – Compressor Station Maintenance	11-Mar-24	13-Mar-24	373	11	241	195 - 225	Potential impact to FT-R USJR U/S Latornell
Leismer East – Compressor Station Maintenance	11-Mar-24	15-Mar-24	376	8	244	195 - 225	Potential impact to FT-R USJR U/S Latornell
Goodfish A1 – Compressor Station Maintenance	13-Mar-24	15-Mar-24	373	11	241	195 - 225	Potential impact to FT-R USJR U/S Latornell
Otter Lake – Compressor Station Maintenance	1-Apr-24	3-Apr-24	370	15	238	195 - 225	Potential impact to FT-R USJR U/S Latornell
Alces River – Compressor Station Maintenance	1-Apr-24	5-Apr-24	375	10	243	195 - 225	Potential impact to FT-R USJR U/S Latornell
Gold Creek – Compressor Station Maintenance	8-Apr-24	13-Apr-24	372	13	277	230 - 260	Potential impact to FT-R USJR U/S Berland River
Gold Creek B3 – Compressor Station Maintenance	<del>8-Apr-24</del>	<del>18-Apr-24</del>	<del>375</del>	<del>10</del>	<del>280</del>	<del>230 - 260</del>	Potential impact to FT-R USJR U/S Berland River
Pipestone Creek – Compressor Station Maintenance	29-Apr-24	12-May-24	378 (Apr) 374 (May)	7	283 (Apr) 279 (May)	230 - 260	Potential impact to FT-R USJR U/S Berland River
Meikle River D5 – Compressor Station Maintenance	13-May-24	17-May-24	364	17	232	195-225	Potential impact to FT-R USJR U/S Latornell
NPS 48 Grande Prairie Mainline Loop 2 – Pipeline Maintenance	<del>27-May-24</del>	<del>31-May-24</del>	375	6	<del>280</del>	<del>230 – 260</del>	Potential impact to FT-R USJR U/S Berland River
Latornell – Compressor Station Maintenance	10-Jun-24	12-Jun-24	371	7	276	230 – 260	Potential impact to FT-R USJR U/S Berland River
Latornell A2 – Compressor Station Maintenance	10-Jun-24	14-Jun-24	372	6	277	230-260	Potential impact to FT-R USJR U/S Berland River



### Upstream James River Receipt Area (USJR)

No impactto FT Potential

impactto FT

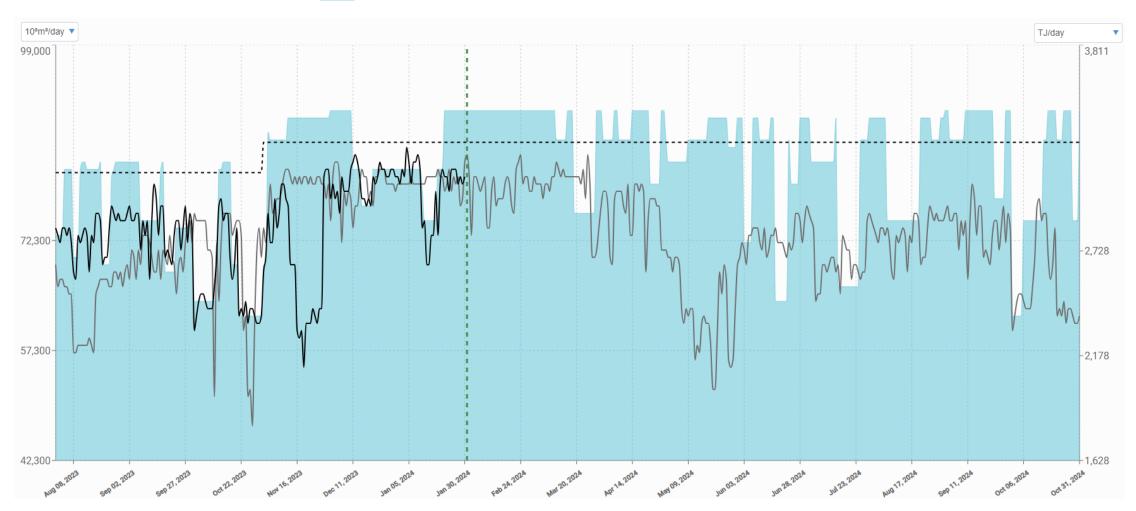
Partial impactto FT

Outage Description	Start	End	USJR Outage Capability (10 <sup>6</sup> m³/d)	USJR Impact (10⁵m³/d)	Area Outage Capability (10 <sup>6</sup> m³/d)	Outage Area Typical Flows (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
NPS 36 Edson Mainline Extension – Pipeline Maintenance	18-Jun-24	23-Jun-24	371	7	276	230 – 260	Potential impact to FT-R USJR U/S Berland
NPS 48 Tanghe Creek Loop 2 – Pipeline Maintenance	9-July-24	12-July-24	358	17	226	195 - 225	Potential impact to FT-R USJR U/S Latornell
Hidden Lake North B2 – Compressor Station Maintenance	9-July-24	13-July-24	368	7	236	195 - 225	Potential impact to FT-R USJR U/S Latornell
Paul Lake – Compressor Station Maintenance	9-July-24	13-July-24	367	8	235	195 - 225	Potential impact to FT-R USJR U/S Latornell
Otter Lake – Compressor Station Maintenance	22-Jul-24	28-Jul-24	360	15	228	195 - 225	Potential impact to FT-R USJR U/S Latornell
NPS 36 WAS Mainline Extension – Pipeline Maintenance	12-Aug-24	17-Aug-24	370	5	238	195 - 225	Potential impact to FT-R USJR U/S Latornell
Latornell A1 – Compressor Station Maintenance	26-Aug-24	29-Aug-24	371	4	276	230 – 260	Potential impact to FT-R USJR U/S Berland
Meikle River C – Compressor Station Maintenance	3-Sep-24	9-Sep-24	361	17	229	195 - 225	Potential impact to FT-R USJR U/S Latornell
Alces River – Compressor Station Maintenance	3-Sep-24	5-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

#### Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)

Capability – Actual Flow – Historical Flow -- Contracts



### West Gate Delivery Area (WGAT)

impactto FT

No

Potential

impact to FT

Partial impactto FT

Outage Description	Start	End	Ca pability (10 <sup>6</sup> m³/d)	Impact (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
NPS 42 Western Alberta System Mainline Loop – Pipeline Maintenance	19-Mar-24	28-Mar-24	76	14	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Moyie C – Compressor Station Maintenance	22-Apr-24	<mark>26-Apr-24</mark>	80	10	Potential Impact to FT Foothills BC
NPS 36 Foothills Zone 7 Leg 1C – Pipeline Maintenance	30-Apr-24	8-May-24	83	6	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Crowsnest H – Compressor Station Maintenance	27-May-24	30-May-24	85	4	Potential Impact to FT Foothills BC
Burton Creek – Compressor Station Maintenance	3-Jun-24	6-Jun-24	72	17	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Winchell Lake – Compressor Station Maintenance	17-Jun-24	20-Jun-24	84	5	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Crowsnest A – Compressor Station Maintenance	17-Jun-24	21-Jun-24	65	24	Potential Impact to FT Foothills BC
NPS 36 BC Mainline – Pipeline Maintenance	17-Jun-24	22-Jun-24	64	25	Potential Impact to FT Foothills BC
Moyie D – Compressor Station Maintenance	24-Jun-24	27-Jun-24	80	9	Potential Impact to FT Foothills BC
NPS 36 Western Alberta System Mainline – Pipeline Maintenance	3-Jul-24	13-Jul-24	83	6	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

### West Gate Delivery Area (WGAT)

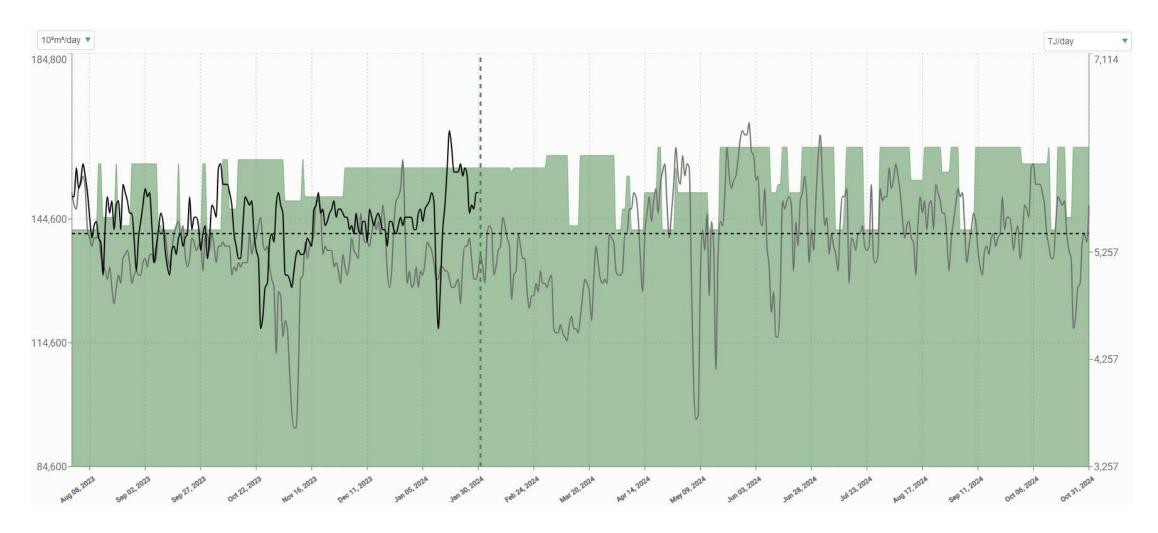
No impactto FT impactto FT

Potential

Outage Description	Start	End	Ca pability (10 <sup>6</sup> m³/d)	Impact (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
Turner Valley A3 – Compressor Station Maintenance	15-Jul-24	19-Jul-24	85	4	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Crowsnest B – Compressor Station Maintenance	15-Jul-24	19-Jul-24	80	9	Potential Impact to FT Foothills BC
NPS 36 BC Mainline – Pipeline Maintenance	15-Jul-24	24-Jul-24	68	21	Potential Impact to FT Foothills BC
NPS 36 Western Alberta System Mainline – Pipeline Maintenance	15-Jul-24	24-Jul-24	66	23	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Elko – Compressor Station Maintenance	6-Aug-24	20-Aug-24	75	14	Potential Impact to FT Foothills BC
Burton Creek A3 – Compressor Station Maintenance	23-Sep-24	<mark>27-Sep-24</mark>	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

# Capability – Actual Flow – Historical Flow -- Contracts



### East Gate Delivery Area (EGAT)

No impactto FT Potential

impact to FT

Outage Description	Start	End	Capability (10 <sup>6</sup> m <sup>3</sup> /d)	lmpact (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
Clearwater A6 – Compressor Station Maintenance	14-Feb-24	<mark>14-Feb-24</mark>	156	1	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 34 EAS and CAS – Pipeline Maintenance	2-Apr-24	10-Apr-24	155	7	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Edson & CAS Mainline Loop – Pipeline Maintenance	11-Apr-24	19-Apr-24	151	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	22-Apr-24	27-Apr-24	142	20	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Acme – Compressor Station Maintenance	22-Apr-24	05-May-24	157	5	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	13-May-24	17-May-24	156	6	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Beiseker B3 – Compressor Station Maintenance	10-Jun-24	13-Jun-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
Clearwater A6 – Compressor Station Maintenance	26-Aug-24	29-Aug-24	156	6	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 Note: Outages located in the USJR area show up in the EGAT table in DOP to indicate a bro	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

<u>Note</u>: Outages located in the USIR 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



### **Oil Sands Delivery Area**

Capability - Actual Flow - Historical Flow



Northeast Delivery Area (NEDA) Oilsands Delivery Area (OSDA) NoPotentialPartialimpactto FTimpactto FTimpactto FT

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



# SD Accounts / Pipeline Tolerance

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### Customer Supply/Demand Inventory

- The Alberta Gas Accounting module provides and reports on the accounting aggregation of a customer's transactional business in summary and in detail
- Supply/Demand daily inventory is a net calculation of the following:
  - o Receipt
    - Physical Receipts (Field Receipts, Border Receipts, Storage Withdrawal)
    - NIT (Nova Inventory Transfer) Purchases
  - Delivery
    - Physical Deliveries (Intra-delivery, Border Delivery, Storage Injection, Extraction)
    - NIT (Nova Inventory Transfer) Sales
    - Fuel
- The Net position of all customer's inventories is shown in the GDSR as the SD account position

## **Supply Demand Accounts**

- Customers have a balance zone associated with their Supply Demand Account
- The Balance Zone is calculated as follows (Refer to Section 1.2 of Appendix D of the tariff):
  - Positive value of the greater of:
    - 2 TJ's; or
    - 4% of the sum of the total receipts in the previous month divided by total number of days from previous month + 4% of the sum of total deliveries in the previous month divided by the total number of days from previous month
    - Customer with 0 physical receipts/deliveries "Nit Only Customer" will not receive a balance zone for the calculated month
  - Customers Balance Zone is recalculated on the 2<sup>nd</sup> day of each month based on previous months physical receipts and deliveries
  - The updated balance zone will be reflected in the Supply/Demand module for the duration of the subsequent month

## **Supply Demand Balancing**

- Customers are required to have their Supply Demand Accounts within their calculated balance zone at the end of each gas day. Customers have until 10:30 MST to balance their account for the previous gas day.
- If a customers account is not balanced, TC Energy will take the following action per Section 4.2 of Appendix D of the tariff:
  - Reduce or cancel NIT sale or purchase transactions beginning with the shortest-term transactions
  - Reduce or zero Customer's current day Nominations and subsequently reduce or zero current day allocations to match the nomination reduction
- If a customer account requires balancing the shipper will be contacted by a TC Energy Nominations Analyst with the action taken to balance the account. If the action takes in a cancelled NIT, the analyst will also contact the counter-party impacted by the balancing cut

## **Tolerance Changes / Timing**

- Tolerance Changes are communicated to shippers via the posting of an external bulletin, phone and text notifications, Customer Express Dashboard and the Alberta Gas Accounting Supply/Demand module
- Changes to Pipeline Tolerance Level
  - Changes made and communicated to customers prior to 12:00 PM Calgary time are in effect for the current gas day
  - Changes made and communicated to customer after 12:00 PM Calgary time will take effect for the following or subsequent gas day
- To receive the Phone/Text notification related to Tolerance Changes please contact nominations@tcenergy.com or The Call Centre at 403-920-7473

### CONTACTS



#### MARKETING REPS

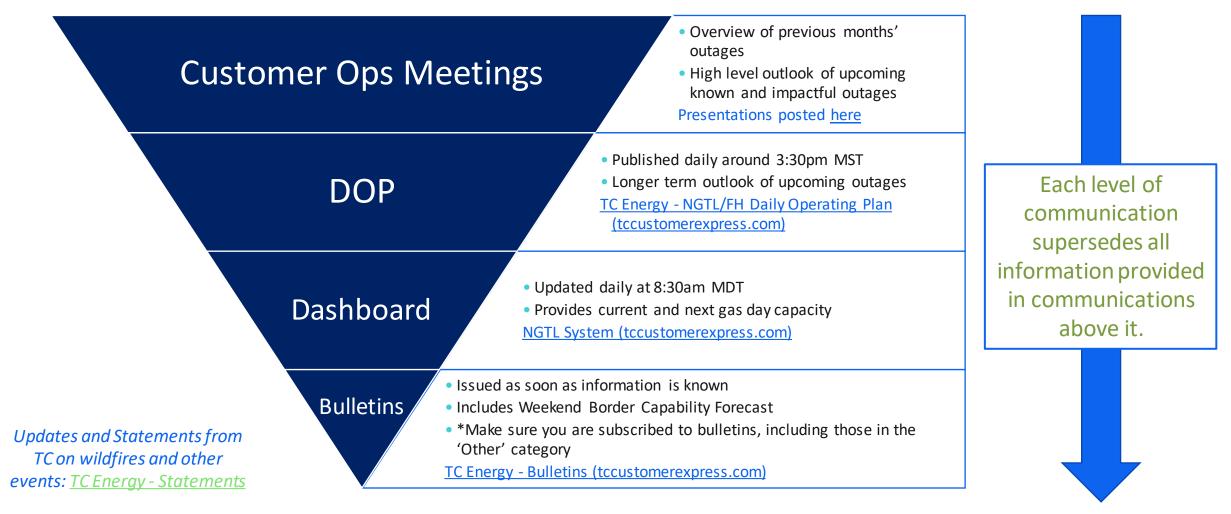
<u>Customer Express Contacts</u> (tccustomerexpress.com)

### NELSON JALOTJOT

Chair, NGTL/FH Customer Ops 403.827.1039 nelson\_jalotjot@tcenergy.com



### **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

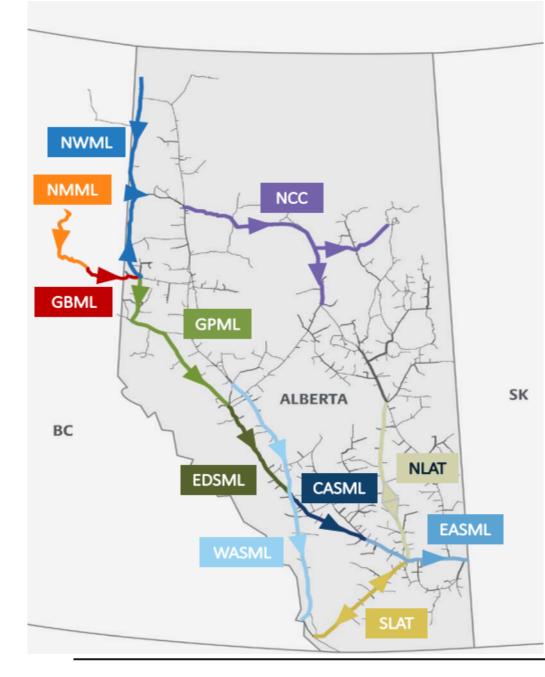
### ·: Transportation Services

- IT-R: Interruptible Transportation Receipt
- > IT-D: Interruptible Transportation Delivery
- FT-R: Firm Transportation Receipt
- FT-D: Firm Transportation Delivery

### ·:· Operational Areas

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- USJR: Upstream James River
- 🗞 WGAT: West Gate
- EGAT: East Gate
- Solution Solution Stress Solut
- **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)