

# NGTL System and Foothills Pipelines Ltd.

CUSTOMER OPERATIONS MEETING





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





#### Signs and Signals

- Flashing YELLOW prepare to stop
- Flashing RED means STOP!
- Stop 20 metres/yards behind buses
- Never pass a school bus with flashing red
- Proceed once red lights no longer flashing
- Pass any school bus with caution



#### **Know the Zones**

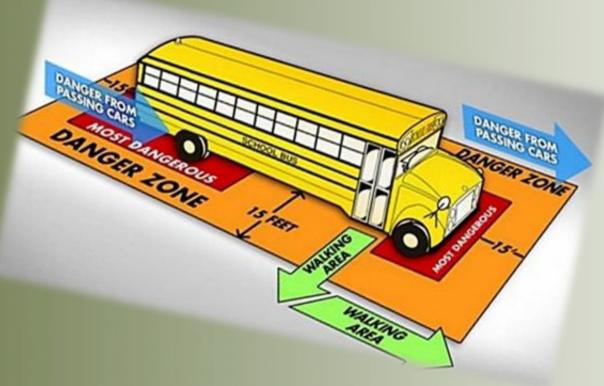
- School zones are in effect
- Times may be different in your community
- When in doubt, slow down



School may start or finish during:

- Dawn or Dusk
- Fog or Cloud
- Rain or Shine

Note: Kids may be wearing masks that lower peripheral vision, so YOU need to spot THEM.



Life Saving Rule #1

We will drive safely and without distraction.



#### 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 impactto 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

Outage information in this presentation may not be accurate beyond the September 7, 2023, NGTL/Foothills Customer Operations (WebEx only) meeting



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

#### Important Notes



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



#### Outage Communication Tools: Order

 Overview of previous months' outages **Customer Ops Meetings**  High level outlook of upcoming known and impactful outages Presentations posted here Published daily around 3:30pm MST Longer term outlook of upcoming outages DOP TC Energy - NGTL/FH Daily Operating Plan (tccustomerexpress.com) Updated daily at 8:30am MDT Dashboard Provides current and next gas day capacity NGTL System (tccustomerexpress.com) Issued as soon as information is known. Bulletins Includes Weekend Border Capability Forecast \*Make sure you are subscribed to bulletins, including those in the Updates and Statements from 'Other' category TC on wildfires and other TC Energy - Bulletins (tccustomerexpress.com) events: TC Energy - Statements

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

# Agenda



- 1. Project Updates
- 2. Review of August Operations
- 3. Review of Upcoming DOP Outages



# **Project Updates**



#### Project Updates: ISD Summary (since August 3, 2023 update)

NGTL Projects:	
Intra-Basin Expansion	Saturn (ISD Nov 2023) Saddle Hills Unit Addition (ISD April 2024) Emerson Creek Compressor Station (ISD April 2024)
WestPath 2023	Turner Valley, Lundbreck and Longview (ISD Nov 2023)
FH Projects:	
Elko Section Loop	ISD Nov 2023 *50% capacity achieved by Nov 1, 2023 with remaining capacity achieved by end of Nov 2023 (slide 11 for further details)

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



#### Project Updates: NGTL (since August 3, 2023 update)

#### **Intra-Basin Expansion**

Saturn (Map I.D. #24) **ISD Nov 2023** 

Construction activities continue to progress.

**Emerson Creek** Compressor Station (Map I.D. #30)

ISD April 2024

complete • 2 of 3 tie-in outages have been completed

68% construction

- Saddle Hills Unit Addition (Map I.D. #31) ISD April 2024
- 46% construction complete
- Outage scheduled this month for tie-in work

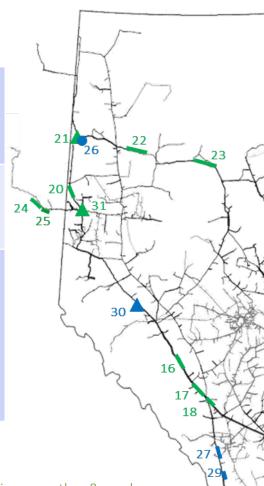
#### West Path 2023 (ISD Nov 2023)

Turner Valley (Map I.D. # 27)

- All pipe has been installed and backfilled
- Lundbreck

(Map I.D. # 28)

- Mainline construction activities are underway
- Longview (Map I.D. # 29)
- All pipe has been installed and backfill activities are near completion



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



#### Project Update: FH (since August 3, 2023 update)

#### West Path 2023

Yahk in-service (Map I.D. # 1)

Elko (Map I.D. # 2)
ISD Nov 2023

- Pipe installation at watercourse crossings are complete
- Blasting activities through mountainous terrain complete
- Installation of pipe is near completion
- Contingency valve currently being installed to allow project to achieve 50% capacity by Nov 1. Remaining capacity on track to be available prior to end of November.

MOYIE No.2B CS

ELKO No.2A CS

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



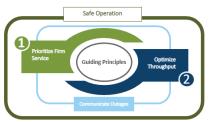
# Review of August Operations



### **Upstream James River**



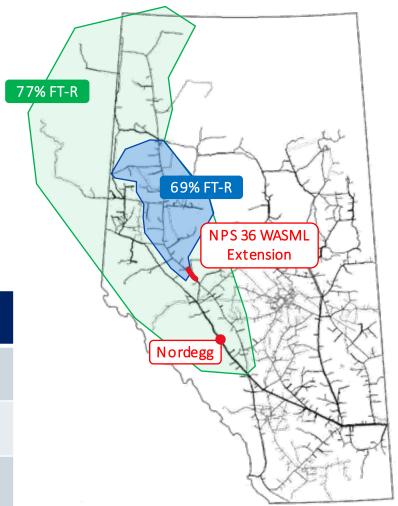
#### NPS 36 Western Alberta System Mainline Extension - Pipeline Maintenance Nordegg B3 and B5 – Compressor Station Maintenance



#### **Background:**

- Planned:
  - NPS 36 WASML Extension Pipeline Maintenance: Aug 8 13
    - Outage duration extended to Aug 14
  - Nordegg B3 and B5 Compressor Station Maintenance: Aug 8 13
- Capability communicated in DOP:
  - USJR: 340 10<sup>6</sup> m<sup>3</sup>/d
  - Local (Partial Segments 2 and 5): 16 10<sup>6</sup> m<sup>3</sup>/d
- Service Allowable:
  - USJR (excluding Partial Segments 2 and 5): 0% IT-R, 77% FT-R
  - Local (Partial Segments 2 and 5): 0% IT-R, 69% FT-R

Bulletin Date	Effective Date	Service Allowable	Comments
Aug 2	Aug 7 (21:00 MST)	USJR: 0% IT-R, 77% FT-R Local: 0% IT-R, 69% FT-R	Bulletin Issued
		USJR: 0% IT-R, 77% FT-R Local: 0% IT-R, 69% FT-R	End date for NPS 36 WASML Ext outage updated to Aug 14
Aug 14	Aug 15 (08:00 MST)	USJR: 0% IT-R, 100% FT-R	NPS 36 WASML Ext completed NPS 48 GPML Loop 2 outage starts





#### NPS 48 Grande Prairie Mainline Loop 2 – Pipeline Modifications



#### Background:

• Planned:

• NPS 48 GPML Loop 2 Pipeline Maintenance: Aug 14 – 19

• Previously scheduled to be completed in May but was deferred due to Wildfires

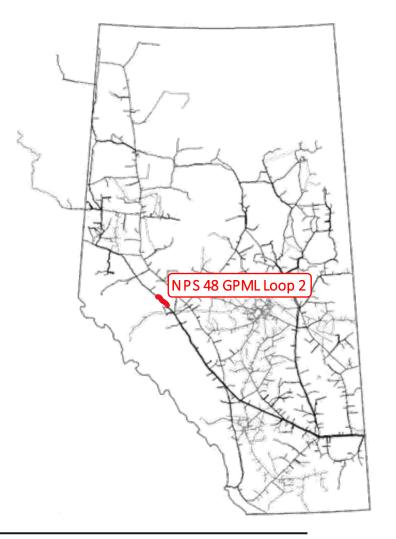
• Capability communicated in DOP:

USJR: 358 10<sup>6</sup> m<sup>3</sup>/d
 EGAT: 145 10<sup>6</sup> m<sup>3</sup>/d

Service Allowable:

• USJR: 0% IT-R, 100% FT-R

Bulletin Date	Effective Date	Service Allowable	Comments
Aug 14	Aug 15 (08:00 MST)	USJR: 0% IT-R, 100% FT-R	Maintenance started as soon as the NPS 36 WASML Ext outage was completed
Aug 18	Aug 19 (08:00 MST)	USJR: 100% IT-R, 100% FT-R	Observing available system capability and forecasted cooler ambient temperatures.  NPS 48 GPML Loop 2 work on track to be completed as scheduled.





# West Gate



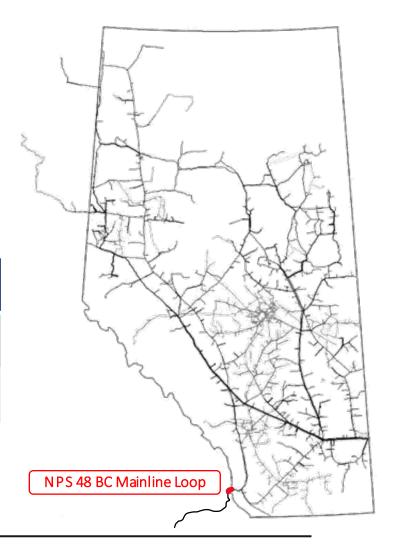
#### NPS 48 BC Mainline Loop - Pipeline Maintenance



#### Background:

- Planned:
  - NPS 48 BC Mainline Loop Pipeline Maintenance: Aug 8 10
- Capability communicated in DOP:
  - WGAT: 70 10<sup>6</sup> m<sup>3</sup>/d
- Service Allowable:
  - WGAT: 0% IT-D, Partial FT-D (70 10<sup>6</sup> m<sup>3</sup>/d)

Bulletin Date	Effective Date	Service Allowable	Comments
Aug 2	Aug 8 (08:00 MST)	FHBC: 0% IT, Partial FT	Maintenance started as scheduled
Aug 10	Aug 11 (08:00 MST)	FHBC: 100% IT, 100% FT	Maintenance completed as scheduled



#### Moyie – Compressor Station Maintenance



#### Background:

- Planned:
  - Moyie Compressor Station Maintenance: Aug 21 25
- Capability communicated in DOP:
  - WGAT: 69 10<sup>6</sup> m<sup>3</sup>/d
- Service Allowable:
  - WGAT: 0% IT-D, Partial FT-D (69 10<sup>6</sup> m<sup>3</sup>/d)

Bulletin Date	Effective Date	Service Allowable	Comments
Aug 17	Aug 21 (08:00 MST)	FHBC: 0% IT, Partial FT	Maintenance started as scheduled
Aug 24	Aug 25 (08:00 MST)	FHBC: 100% IT, 100% FT	Maintenance completed Aug 24





# Review of DOP Outages

(From DOP as of Wednesday, September 6)



#### 2023 Outages

- All known planned outages at this time are included in the <u>DOP</u> (Including work deferrals due to the wildfires)
  - We continue to optimize the outage schedule to reduce impacts; however, opportunity is limited due to work that has been shifted to late summer due to the wildfires
  - If there is adequate manpower and resources available, we will continue to move forward with all work even if it may result in impacts to service
  - Important that all required maintenance is completed prior to the winter season to avoid system derates or limitations and ensure reliability through the winter
- 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 <u>DOP</u> 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
November 2023	Intra-basin Expansion:

#### Upstream James River





#### 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> m³/d)	USJR Impact (10 <sup>6</sup> m³/d)	Area Outage Ca pability (10 <sup>6</sup> m³/d)	Outage Area Typical Flows (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
NPS 24 North Central Corridor – Pipeline Maintenance	8-Sep-23	13-Sep-23	360	10	233	180 - 220	Potential impact to FT-R USJR U/S Latornell
Otter Lake – Compressor Station Maintenance	11-Sep-23	16-Sep-23	357	13	230	180 - 220	Potential impact to FT-R USJR U/S Latornell
Saddle Hills B3 – Compressor Station Maintenance	18-Sep-23	27-Sep-23	357	13	230	180 - 220	Potential impact to FT-R USJR U/S Latornell
Meikle River D5 – Compressor Station Maintenance	30-Sep-23	6-Oct-23	353 (Sep) 357 (Oct)	17	226	180 - 220	Potential impact to FT-R USJR U/S Latornell
Clearwater – Compressor Station Maintenance	10-Oct-23	14-Oct-23	364	10	N/A	320 - 350	Potential impact to FT-R USJR
Latornell A1 – Compressor Station Maintenance	10-Oct-23	23-Oct-23	368	6	N/A	320 - 350	Potential impact to FT-R USJR
NPS 42 Grande Prairie Mainline Loop – Pipeline Modifications	30-Oct-23	9-Nov-23	367 (Oct) 370 (Nov)	7	N/A	320 - 350	Potential impact to FT-R USJR



#### Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)





#### West Gate Delivery Area (WGAT)

No impact to FT Potential impact to FT

Partial impact to 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 36 Western Alberta System Mainline – Pipeline Maintenance	7-Sep-23	12-Sep-23	75	8	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Crowsnest B – Compressor Station Maintenance	13-Sep-23	15-Sep-23	75	8	Potential Impact to FT Foothills BC
Turner Valley A3 — Compressor Station Maintenance	<del>18 Sep 23</del>	<del>20 Sep 23</del>	<del>79</del>	4	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Elko – Compressor Station Maintenance	18-Sep-23	22-Sep-23	68	15	Potential Impact to FT Foothills BC
NPS 48 Western Alberta System Mainline Loop 2 – Pipeline Modifications	18-Sep-23	28-Sep-23	<mark>74</mark>	9	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 36 Western Alberta System Mainline (Seg 1) – Pipeline Modifications	1-Oct-23	11-Oct-23	64	19	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
NPS 36 Western Alberta System Mainline (Seg 2) – Pipeline Modifications	1-Oct-23	11-Oct-23	64	19	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 48 BC Mainline Loop – Pipeline Modifications	1-Oct-23	11-Oct-23	64	19	Potential Impact to FT Foothills BC
Crowsnest K – Compressor Station Maintenance	2-Oct-23	11-Oct-23	75	8	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



#### West Gate Delivery Area (WGAT)

No impact to FT Potential impact to FT

Partial impact to FT

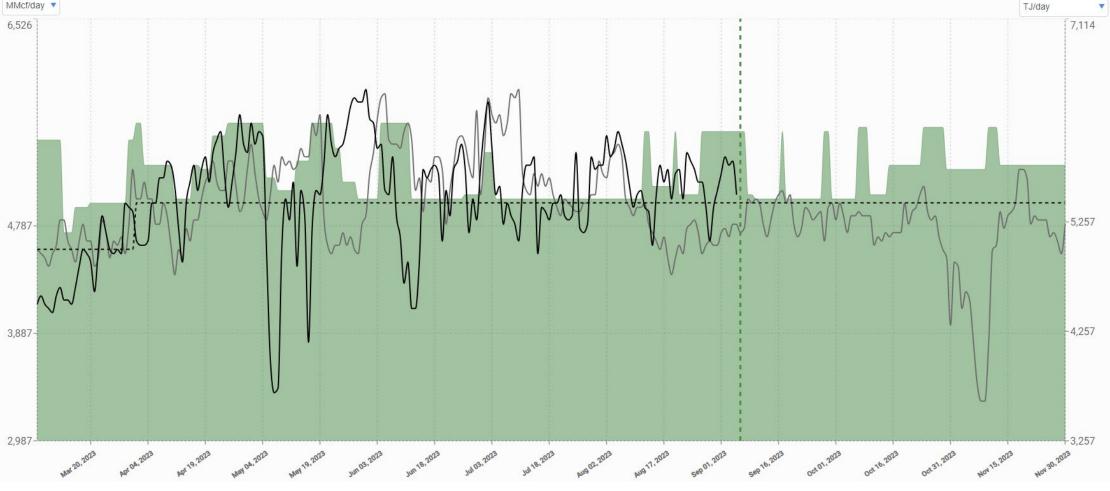
Outage Description	Start	End	Capability (10 <sup>6</sup> m³/d)	Impact (10 <sup>6</sup> m³/d)	Service Allowable Location/Area
Turner Valley A1 & A2 – Compressor Station Maintenance	20-Oct-23	31-Oct-23	76	7	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Turner Valley – Compressor Station Maintenance	22-Oct-23	31-Oct-23	70	13	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 42 Western Alberta System Mainline Loop – Pipeline Modifications	1-Nov-23	9-Nov-23	87		Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
NPS 42 FPL Zone 8 Segment 2A – Pipeline Maintenance	3-Nov-23	8-Nov-23	<mark>79</mark>	9	Potential Impact to FT Foothills BC
NPS 36 Western Alberta System Mainline Pipeline Maintenance	<del>16 Nov 23</del>	<del>22 Nov 23</del>	<del>75</del>	<del>13</del>	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21

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



#### **East Gate**





#### 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> m³/d)	Impact (10 <sup>6</sup> m <sup>3</sup> /d)	Service Allowable Location/Area
Clearwater – Compressor Station Maintenance	10-Oct-23	14-Oct-23	143	16	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Clearwater A1 & A5 — Compressor Station Maintenance	<del>16 Oct 23</del>	<del>20 Oct 23</del>	<del>155</del>	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	6 Nov-23	<del>19 Nov 23</del>	<del>150</del>	9	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Jenner – Compressor Station Maintenance	13-Nov-23	30-Nov-23	150	9	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



#### Oil Sands Delivery Area





#### 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 are specific to OSDA or NEDA



## Plant Turnaround Information



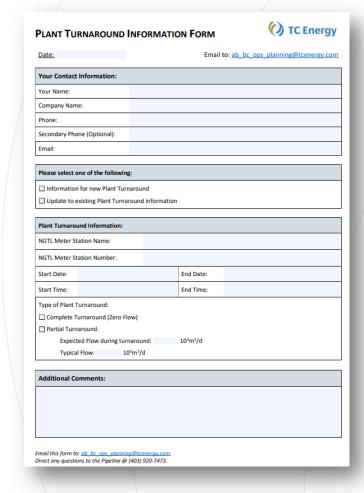
#### **Reminder: Plant Turnaround Information**

- Where possible, we will continue to make all efforts to align maintenance with customer maintenance activities to maximize coordination opportunities and minimize impacts
- All customer specific information received will remain strictly confidential within the outage planning and coordination teams

#### Most common places to find the form:

- Customer Express
- Bottom of the Daily Operation Plan (DOP)

Where to send the form: ab bc ops planning@tcenergy.com



Please report your maintenance and turnaround schedules for the remainder of 2023 and beyond Click <u>HERE</u> for the PTA form



# (S) recently

#### MARKETING REPS

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

#### **CONTACTS**

#### MINH BADAU

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minh badau@tcenergy.com

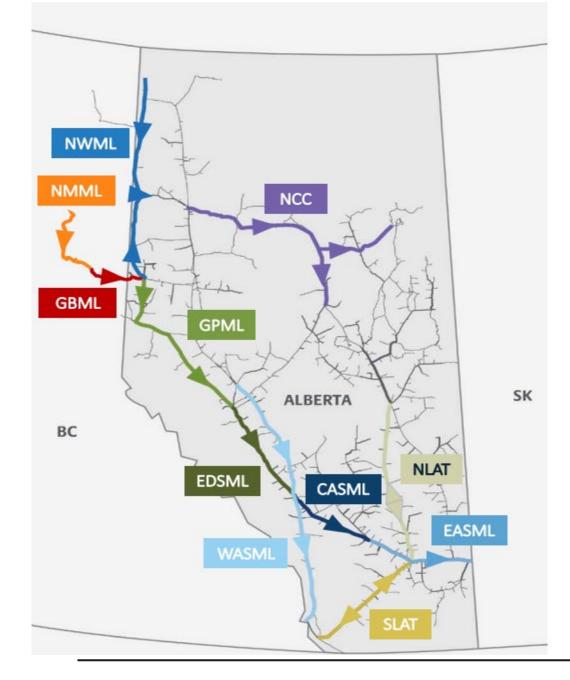


#### **Glossary of Terms**

- 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)

