NGTL System and Foothills PipeLines Ltd. Customer Operations Meeting

March 4, 2021



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
- Please submit your questions via the chat function and we will answer them at the best possible opportunity

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 is NOT applicable beyond the March 4, NGTL/Foothills Customer Operations (WebEx only) meeting



For current outage information, please refer to the most recent Daily Operating Plan (DOP) on my.TC Customer Express



This meeting will only cover operational topics related to the NGTL and Foothills systems. For information on Commercial and Regulatory topics, please contact your Marketing Representative

Our Focus During COVID-19



Protect our teams, partners and communities



Ensure no interruption to our customers



Secure supply of critical equipment and services with our partners

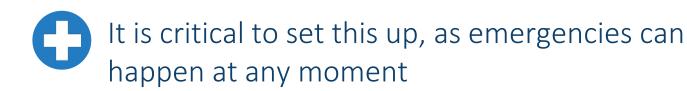
Notice something is off?

Please reach out: Marketing Reps or 403.920.PIPE

Safety Moment – Emergency Contact

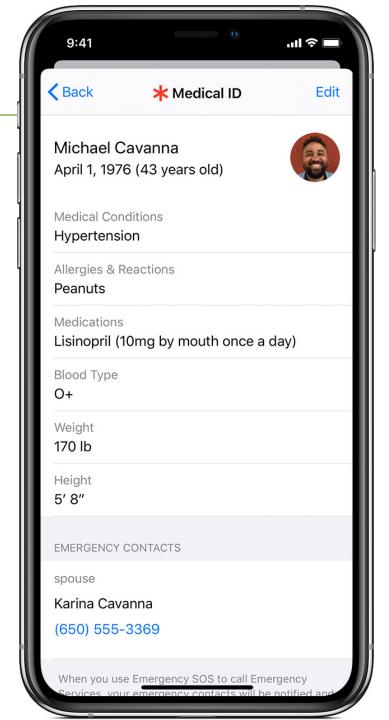


Smart Phones have the ability to hold your emergency details





Depending on the emergency, having this information on your phone could save a life

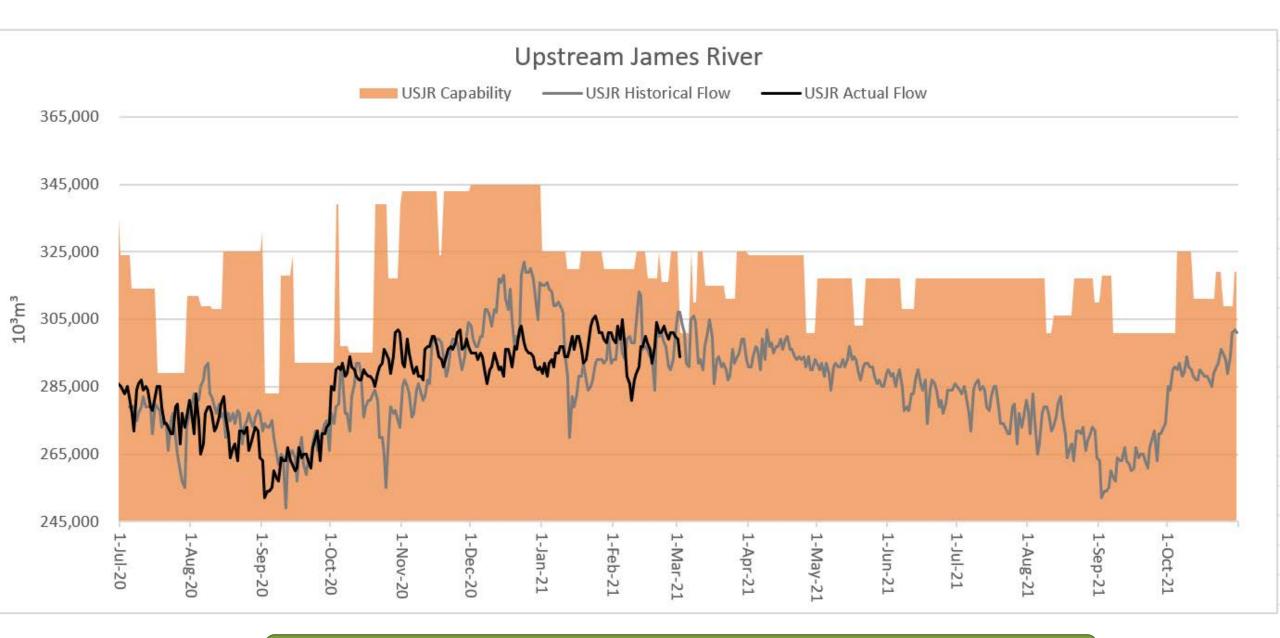




1) Review outages in Daily Operating Plan (DOP)

2 February 2021 Cold Snap Lookback

2021 Outage Review From DOP as of Wednesday, March 3rd



This slide is <u>NOT</u> applicable beyond the Mar 4, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

For informational purposes only

Potential

impact to FT

USJR Outage Area Outage **Typical Outage USJR Impact** Capability **Area Flows Outage Description** Start End Capability Location/Area (10⁶m³/d) $(10^{6} m^{3}/d)$ $(10^{6}m^{3}/d)$ $(10^{6} m^{3}/d)$ Potential impact to FT-R **Vetchland - Compressor Station Modifications** 2-Mar-21 6-Mar-21 301 N/A 14 260-310 USJR Potential impact to FT-R 13-Mar-21 21-Mar-21 N/A Nordegg – Compressor Station Maintenance 315 10 260-310 USJR Potential impact to FT-R Hidden Lake North – Compressor Station Maintenance 22-Mar-21 26-Mar-21 315 145-180 10 189 Segments 2, 3, 4, and partial 7 Potential impact to FT-R Goodfish - Compressor Station Maintenance 22-Mar-21 26-Mar-21 311 14 185 145-180 Segments 2, 3, 4, and partial 7 Potential impact to FT-R Meikle River C – Compressor Station Maintenance 26-Apr-21 30-Apr-21 301 N/A 20 260-310 USJR Potential impact to FT-R 17-May-21 21-May-21 Meikle River D5 - Compressor Station Maintenance N/A 303 14 260-310 USJR Potential impact to FT-R Wolf Lake A2 - Compressor Station Maintenance 7-Jun-21 N/A 12-Jun-21 308 9 260-310 USJR Potential impact to FT-R **Berland River - Compressor Station Maintenance** 9-Aug-21 11-Aug-21 N/A 260-310 301 16 USJR Potential impact to FT-R 13-Aug-21 Berland River A1 – Compressor Station Maintenance 9-Aug-21 306 11 N/A 260-310 USJR

Potential

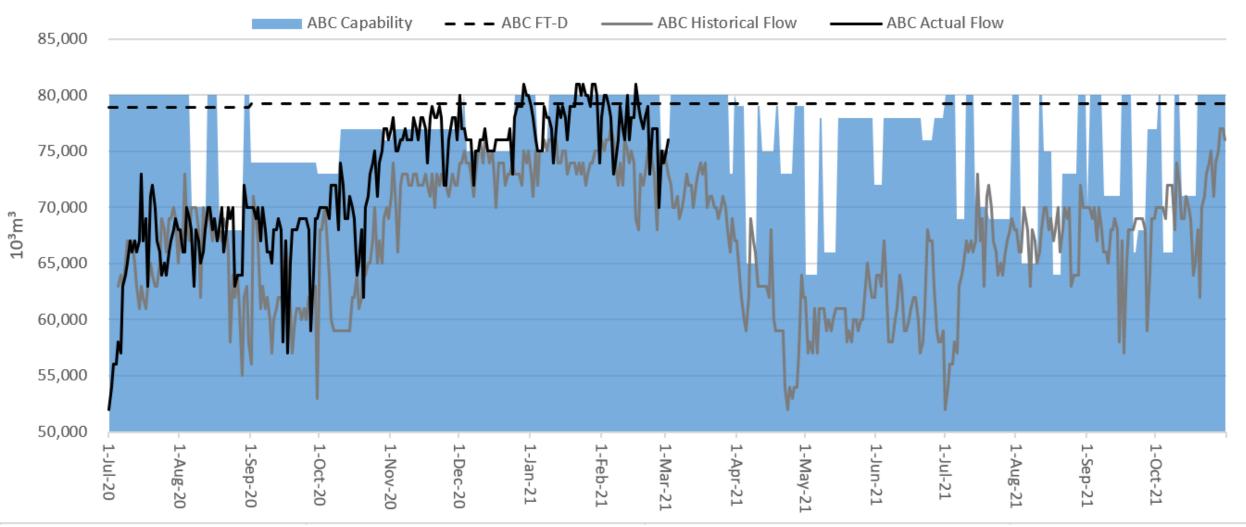
impact to FT

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)	Typical Outage Area Flows (10 ⁶ m ³ /d)	Location/Area
NPS 36 Edson Mainline Extension - Pipeline Maintenance	14-Aug-21	20-Aug-21	306	11	N/A	260-310	Potential impact to FT-R USJR
Otter Lake - Compressor Station Maintenance	30-Aug-21	3-Sep-21	310	8	191	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Gold Creek - Compressor Station Modifications	7-Sep-21	4-Oct-21	301	17	175	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Clearwater - Compressor Station Maintenance	27-Sep-21	1-0ct-21	310	8	N/A	260-310	Potential impact to FT-R USJR
Latornell - Compressor Station Maintenance	12-Oct-21	16-Oct-21	311	14	N/A	260-310	Potential impact to FT-R USJR
Latornell A2 - Compressor Station Maintenance	12-Oct-21	21-Oct-21	311	14	222	170-210	Potential impact to FT-R Segments 2, 3, 4, partial 5, partial 7
Hidden Lake – Compressor Station Maintenance	18-Oct-21	7-Nov-21	319	6	194	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Alces River - Compressor Station Maintenance	25-Oct-21	29-Oct-21	309	16	N/A	260-310	Potential impact to FT-R USJR

Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)



West Gate Delivery Area (WGAT) Foothills Zone 8 (FHBC)

No impact to FT Potential

impact to FT

Outage Description	Start	End	Capability/ Allowable (10⁶m ³ /day)	Impact (10 ⁶ m³/d)	Pipeline	Service Allowable Location/Area
Crowsnest B - Compressor Station Maintenance	29-Mar-21	30-Mar-21	73	8	FH BC	Potential impact to FT: Alberta/BC Border
Burton Creek - Compressor Station Maintenance	5-Apr-21	9-Apr-21	65	14	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Western Alberta System Mainline - Pipeline Maintenance	12-Apr-21	17-Apr-21	75	4	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Foothills Pipeline Zone 7 Leg 1C - Pipeline Maintenance	20-Apr-21	25-Apr-21	73	6	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 42 Western Alberta System Mainline Loop - Pipeline Maintenance	1-May-21	6-May-21	64	14	NGTL	Potential Impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Western Alberta System Mainline - Pipeline Maintenance	9-May-21	14-May-21	66	12	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
Burton Creek A3 - Compressor Station Maintenance	31-May-21	3-Jun-21	72	6	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
Turner Valley A3 - Compressor Station Maintenance	21-Jun-21	25-Jun-21	76	2	NGTL	Potential impact to FT-D: Alberta/BC Border
NPS 36 Western Alberta System Mainline Loop - Pipeline Maintenance	6-Jul-21	9-Jul-21	69	11	NGTL	Potential impact to FT-D: Alberta/BC Border
NPS 36 Foothills Pipeline Zone 8 Seg 2 - Pipeline Maintenance	14-Jul-21	19-Jul-21	70	10	FH BC	Potential impact to FT: Alberta/BC Border
NPS 42 Western Alberta System Mainline Loop - Pipeline Modification	20-Jul-21	29-Jul-21	69	11	NGTL	Potential Impact to FT-D: Alberta/BC Border
Winchell Lake - Compressor Station Maintenance	3-Aug-21	7-Aug-21	65	15	NGTL	Potential Impact to FT-D: Alberta/BC Border

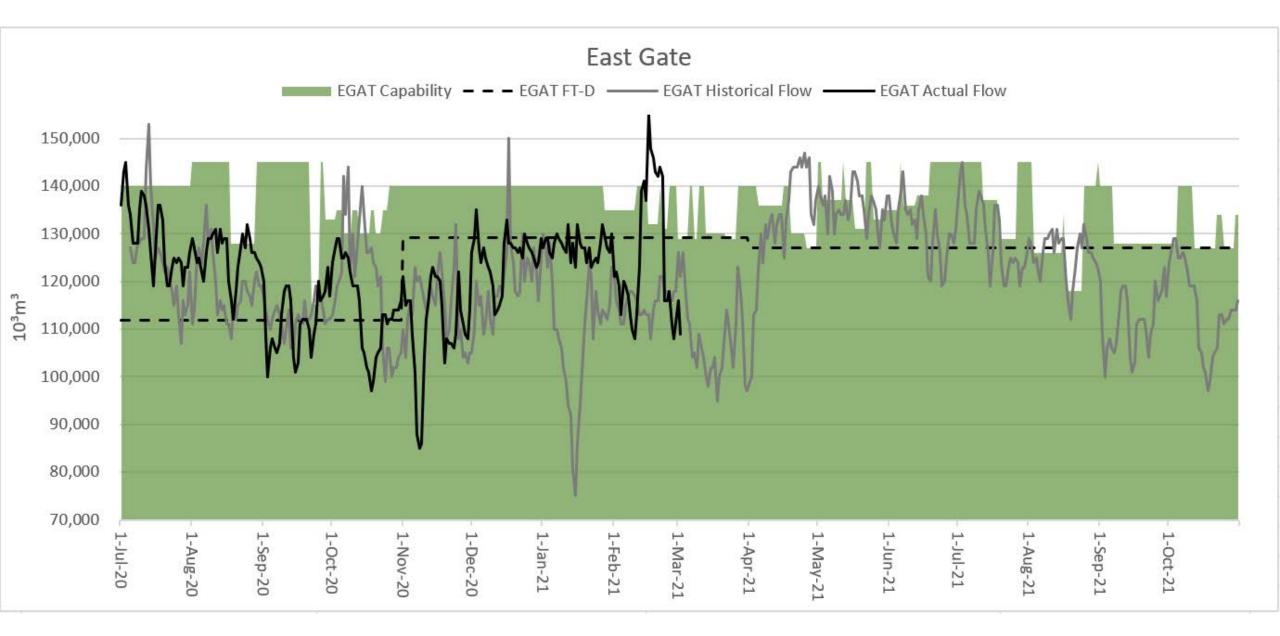
For informational purposes only

West Gate Delivery Area (WGAT) Foothills Zone 8 (FHBC)

NO Potential impact to FT

Partial impact to FT

Outage Description	Start	End	Capability/ Allowable (10⁶m ³ /day)	Impact (10 ⁶ m³/d)	Pipeline	Service Allowable Location/Area
NPS 36 BC Mainline - Pipeline Maintenance	4-Aug-21	10-Aug-21	65	15	FH BC	Potential impact to FT: Alberta/BC Border
NPS 36 Foothills Zone 8 Seg 3 - Pipeline Maintenance	13-Aug-21	17-Aug-21	75	5	FH BC	Potential impact to FT: Alberta/BC Border
Crowsnest A – Compressor Station Maintenance	17-Aug-21	20-Aug-21	64	16	FH BC	Potential Impact to FT: Alberta/BC Border
NPS 36 Foothills Zone 8 Seg 4 - Pipeline Maintenance	19-Aug-21	23-Aug-21	73	7	FH BC	Potential impact to FT: Alberta/BC Border
Turner Valley A1 and A2 - Compressor Station Maintenance	23-Aug-21	27-Aug-21	73	7	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Foothills Zone 7 Leg 1A – Pipeline Maintenance	1-Sep-21	5-Sep-21	70	10	NGTL	Potential Impact to FT-D: Alberta/BC Border
NPS 42 Western Alberta System Mainline Loop - Pipeline Maintenance	8-Sep-21	15-Sep-21	71	9	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Western Alberta System Mainline - Pipeline Modification	21-Sep-21	26-Sep-21	68	12	NGTL	Potential Impact to FT-D: Alberta/BC and Alberta/Montana Borders
Clearwater – Compressor Station Maintenance	27-Sep-21	1-Oct-21	77	3	NGTL	Potential impact to FT: Alberta/BC Border
Elko - Compressor Station Maintenance	21-Sep-21	22-Sep-21	66	14	FH BC	Potential Impact to FT: Alberta/BC Border
Moyie – Compressor Station Maintenance	4-Oct-21	8-Oct-21	66	14	FH BC	Potential impact to FT: Alberta/BC Border
NPS 36 BC Mainline – Pipeline Maintenance	12-Oct-21	18-Oct-21	71	9	FH BC	Potential impact to FT: Alberta/BC Border



For informational purposes only

East Gate Delivery Area (EGAT) Foothills Zone 9 (FHSK)

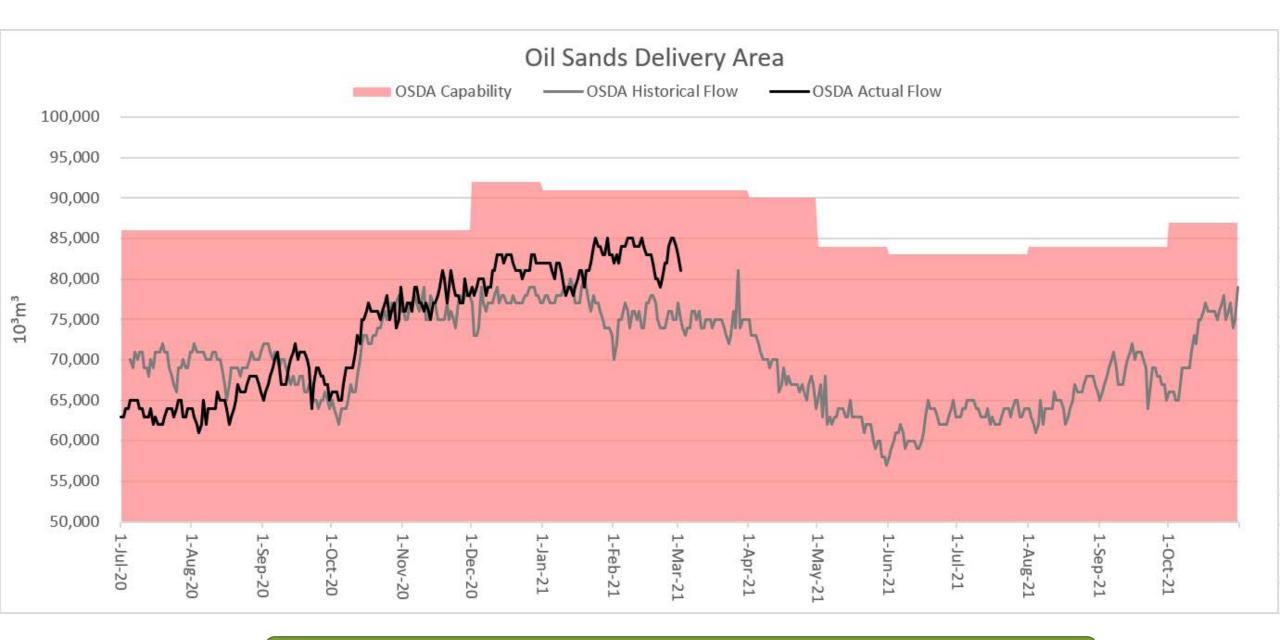
No impact to FT Potential

impact to FT

Partial impact to FT

Outage Description	Start	End	Capability (10 ⁶ m³/day)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
Beiseker – Compressor Station Maintenance	5-Apr-21	15-Apr-21	136	4	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 48 Central Alberta System Mainline Loop 2 Pipeline Modification	19-Apr-21	30-Apr-21	130	10	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 48 Central Alberta System Mainline Loop 2 Pipeline Modification	3-May-21	11-May-21	137	8	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 48 Central Alberta System Mainline Loop 2 Pipeline Modification	13-May-21	21-May-21	137	8	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Princess - Compressor Station Maintenance	25-May-21	30-May-21	133	12	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Central Alberta System M/L Lp Pipeline Modification	26-May-21	5-Jun-21	135	10	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 30 Central Alberta System M/L Pipeline Modification	8-Jun-21	18-Jun-21	138	7	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	12-Jul-21	25-Jul-21	137	8	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 Pipeline Zone 6 Pipeline Maintenance	19-Jul-21	26-Jul-21	129	16	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 and Central Alberta System Mainline Loop* Pipeline Maintenance	<mark>3-Aug-21</mark>	15-Aug-21	126	19	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	16-Aug-21	30-Aug-21	140	5	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 Pipeline Zone 6* Pipeline Maintenance	17-Aug-21	24-Aug-21	118	27	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

*Potential to impact Tranche 3 EGAT Firm contracts



This slide is <u>NOT</u> applicable beyond the Mar 4, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

For informational purposes only

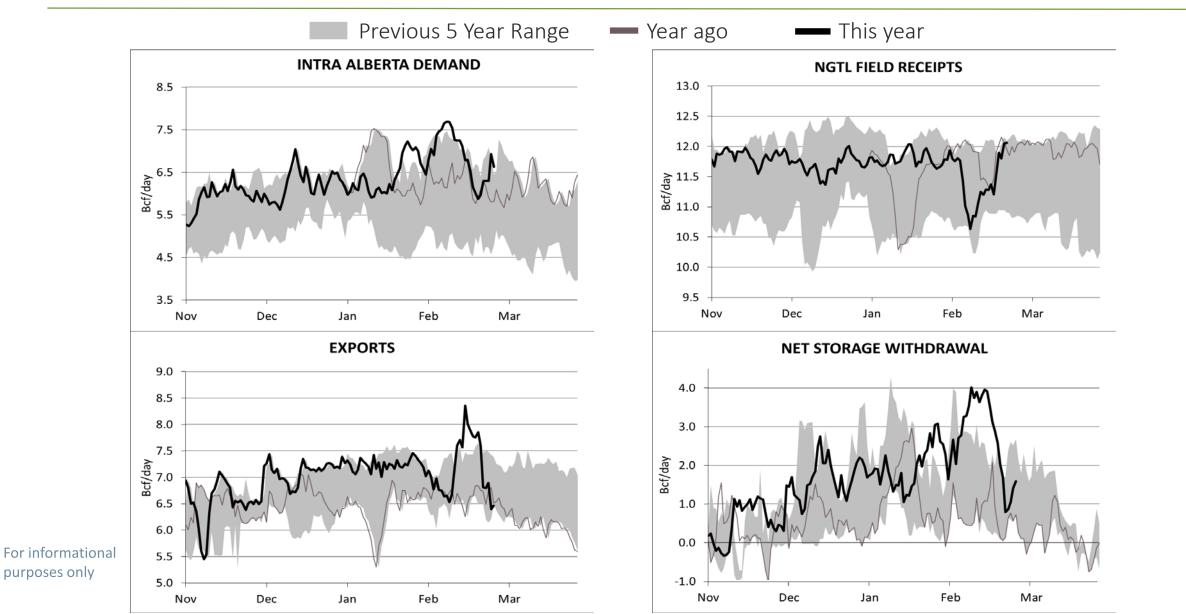
Outage Description	Start	End	Capability/ Allowable (10 ⁶ m ³ /day)	Typical Flow (10⁶m ³ /d)	Service Allowable Location/Area
Otter Lake B2 – Compressor Station Maintenance	8-Mar-21	9-Mar-21	135	120 - 130	Potential Impact to FT-D NEDA Segments 6, 10, 11, 12, 13, 14, 15, 16, 17, 23, 24, partial 28
Gadsby – Compressor Station Maintenance	15-Mar-21	19-Mar-21	140	120 - 130	Potential Impact to FT-D NEDA Segments 6, 10, 11, 12, 13, 14, 15, 16, 17, 23, 24, partial 28

February 2021 Cold Snap Lookback

Record-Setting Low Temperatures

- 10 Artic air pushed into Alberta early February 0 20+ new record lows set in Degrees Celcius (°C) Alberta during the February 2021 -20 Polar Vortex -30 As the cold continued south, it left Alberta and moved into the -40 central US -50 l-Feb 2-Feb 3-Feb 4-Feb 5-Feb 6-Feb 7-Feb 8-Feb 9-Feb 21-Feb L8-Feb 9-Feb 20-Feb 22-Feb 23-Feb 24-Feb 25-Feb .7-Feb 26-Feb 27-Feb 0-Feb 1-Feb .2-Feb .6-Feb 3-Feb 4-Feb .5-Feb 28-Feb Grande Prairie — Fort McMurray — Edmonton
- Alberta Daily Low Temperatures (Feb 2021)

Significant Demand Increase and Supply Shifts



21

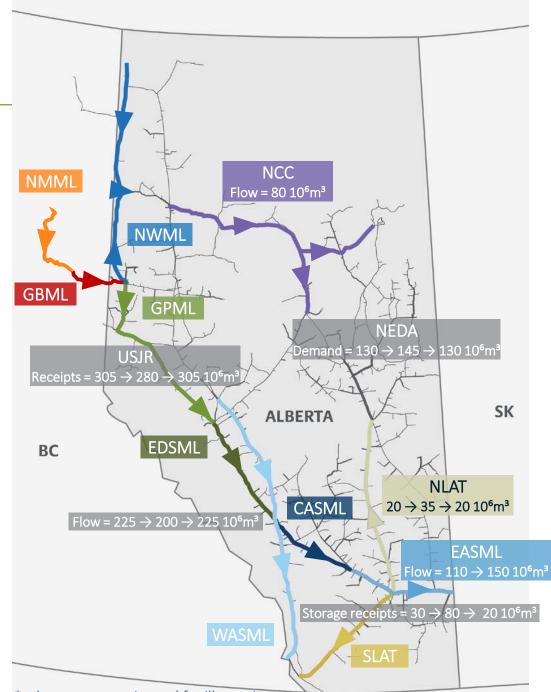
Adjusting Operational Strategy

Increasing Intra Alberta Demand period:

- NLAT flows increased to support NEDA demand
- Upstream James River receipts declined due to freeze-offs. Flows reduced on GPML & EDSML to ensure NWML and NCC maximization to support NEDA demand increase

Increased Export and lower Intra Alberta demand:

- Reduce NLAT flow as NEDA demand decreases and EGAT exports increase
- Increase flows from GPML → EASML as receipt volumes recover and EGAT exports increase



Summary



Record-breaking low temperatures and record-breaking demand levels



Significant preparation to ensure system reliability and readiness for unplanned events



Incredible commitment from many teams and individuals to ensure we could continue to deliver the energy people needed



Contact information

Chuong Ngo

Manager, Operations Planning <u>chuong_ngo@tcenergy.com</u> 403-920-6726

Kevin D'Souza

Chair, NGTL/Foothills Customer Operations meetings <u>kevin_dsouza@tcenergy.com</u> 403-920-7915

Matthew Ramsay

Supervisor, Operations Planning - West <u>matthew_ramsay@tcenergy.com</u> 403-920-6814

Cullen Dancy

Operations Planning - West cullen_dancy@tcenergy.com 587-933-0785