

NGTL takeaway from August 6 meeting

A customer asked if there was any overarching reasons for the high line pressure resulting in gas not being able to flow from plants in the USJR area, and if it would be addressed

- There is no overarching reason for the observed pressure variations and NGTL was operating within its allowable pressure range. We attempt to assist in lowering pressures and reducing impact to customers wherever possible. If you have questions related to specific facilities that impact your business, please contact your Marketing Representative.



NGTL System and Foothills Pipelines Ltd.

Customer Operations Meeting

August 6, 2020



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 (slides 11 to 19) is NOT applicable beyond the August 6, NGTL/Foothills Customer Operations (WebEx only) meeting
- For current outage information, please refer to the most recent Daily Operating Plan (DOP) on 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?

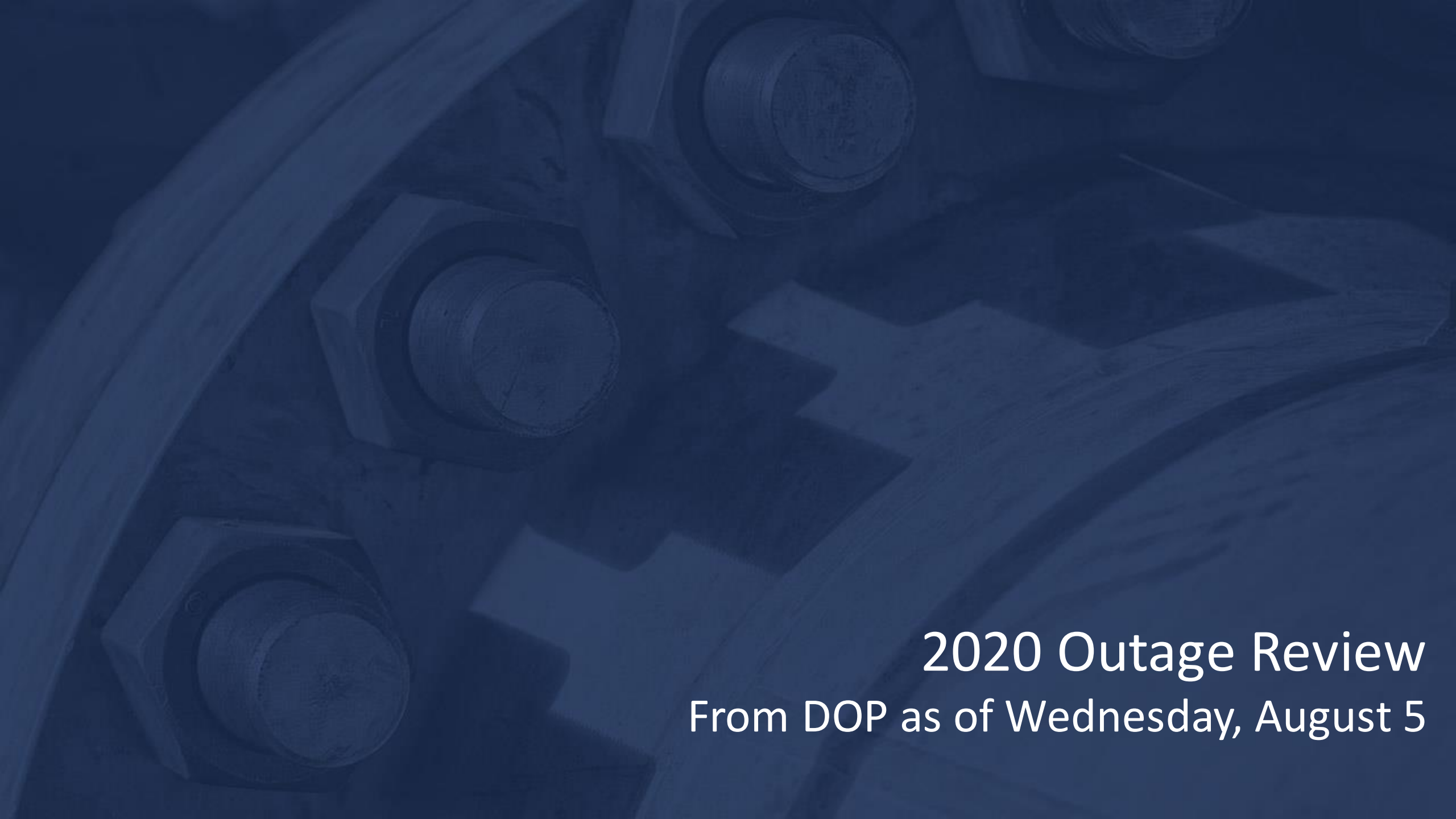
Please reach out: [Marketing Reps](#) or 403.920.PIPE

Safety Moment – Gasoline Safety and Fuel Storage

- Gasoline must be stored in an approved fuel can or tank
- Keep gasoline containers tightly sealed and handle them gently to avoid spills
- Keep gasoline at room temperature
- Store gasoline 50 feet away from ignition sources
- Check with local authorities for additional regulations

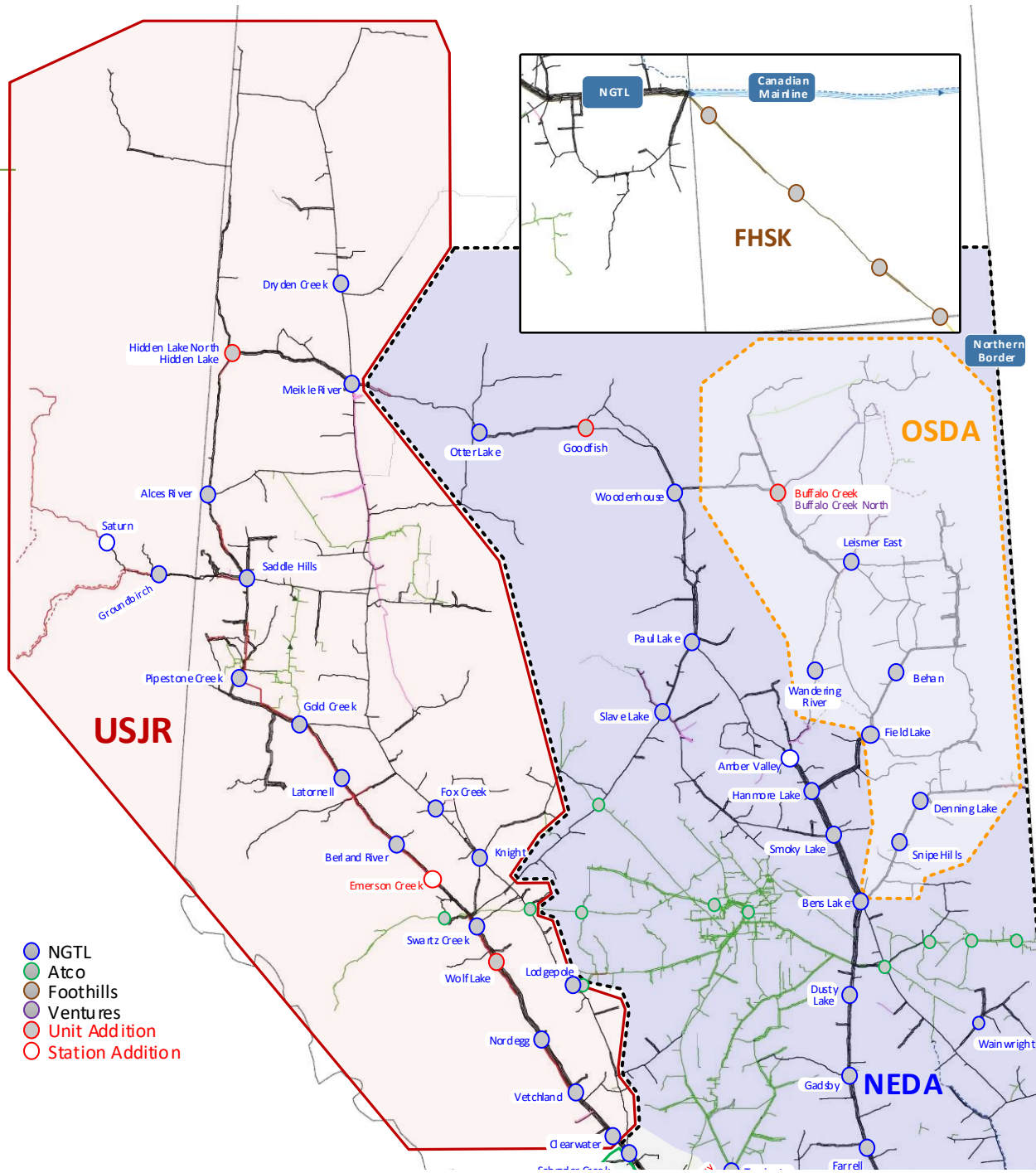
Agenda

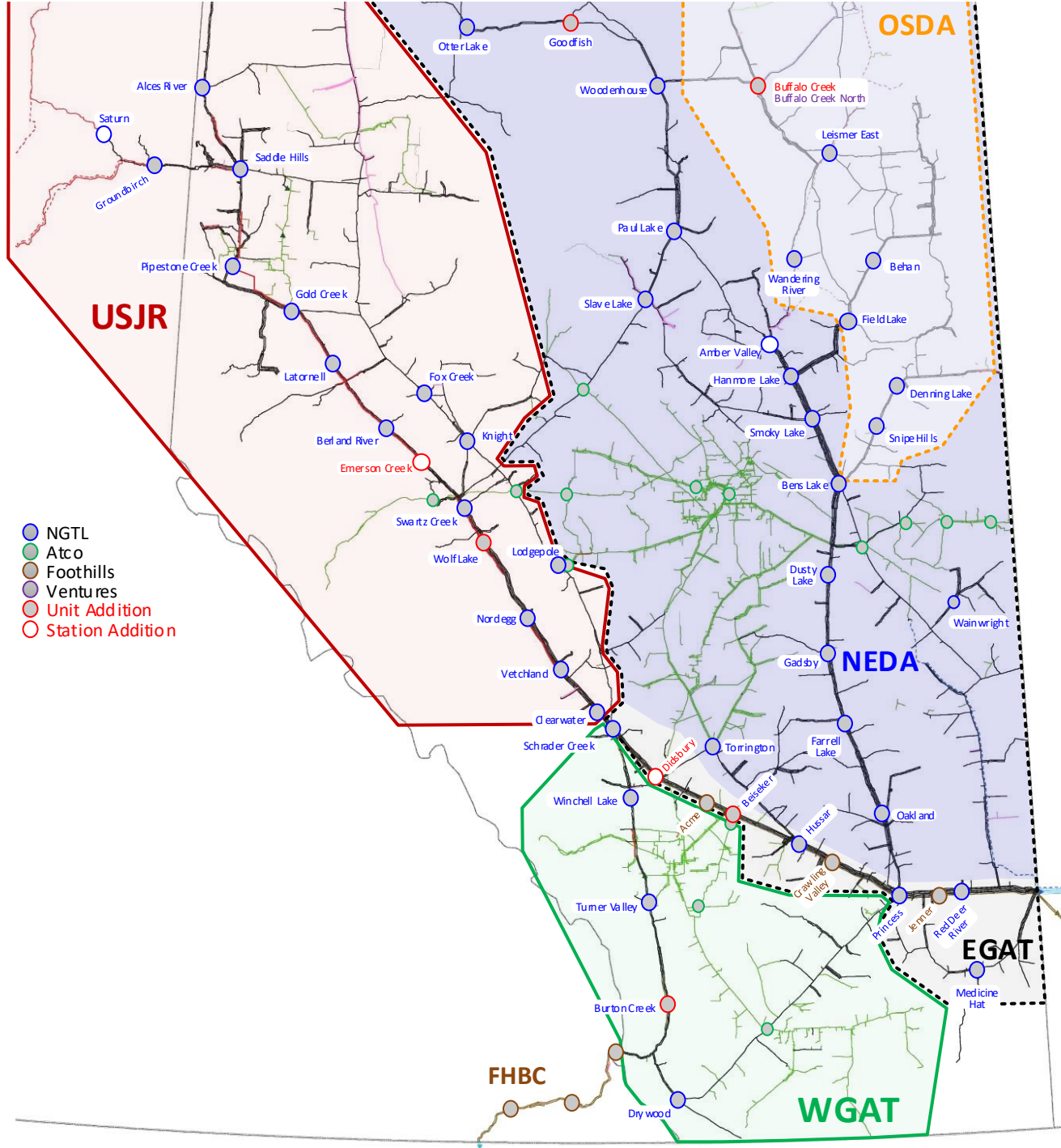
1. Review outages in Daily Operating Plan (DOP)
2. Upcoming enhancements to *mytccustomerexpress.com*: Bulletins



2020 Outage Review

From DOP as of Wednesday, August 5





Upstream James River

Publication:

Aug 05, 2020

Compared to:

Jul 13, 2020

Actual Flow

Historical Flow

Capability

Previously Reported Capability
Last Monthly Update: July 13th

10³m³/day

390,000

300,000

250,000

200,000

Feb 23, 2020

Mar 27, 2020

Apr 29, 2020

Jun 01, 2020

Jul 04, 2020

Aug 06, 2020

Sep 08, 2020

Oct 11, 2020

Nov 13, 2020

Dec 16, 2020

Jan 31, 2021

[TSP Eligible] NPS 36 Northwest Mainline
Sept 2 – 8
Capability = 283 10⁶m³
Partial impact to FT-R

This slide is NOT applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx.
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 ID	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	Outage Description
15714477	JUL 17, 2020	AUG 07, 2020	312	12	N/A	270-305	Potential impact to FT-R USJR	[TSP Eligible] Vetchland A1 - Compressor Station Maintenance
15782671	AUG 05, 2020	AUG 14, 2020	309	16	170	140-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7 (Upstream of Gold Creek)	[TSP Eligible] NPS 30 Grande Prairie Mainline Loop - Pipeline Maintenance
15714003	AUG 10, 2020	AUG 14, 2020	308	17	N/A	270-305	Potential impact to FT-R USJR	[TSP Eligible] Clearwater 1 and 5 - Compressor Station Maintenance
15782796	SEP 02, 2020	SEP 08, 2020	283	48	175	170-220	Partial impact to FT-R Segments 2, 3, 4, 5, and partial 7 (Upstream of Berland River)	[TSP Eligible] NPS 36 Northwest Mainline - Pipeline Maintenance
15777973	SEP 14, 2020	SEP 16, 2020	302	29	265	240-260	Potential impact to FT-R Segments 2, 3, 4, 5, 7, partial 8 (Upstream of Wolf Lake), and partial 9 (Upstream of Lodgepole)	[TSP Eligible] Berland River - Compressor Station Maintenance
15778057	SEP 14, 2020	SEP 20, 2020	324	7	180	140-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7 (Upstream of Gold Creek)	[TSP Eligible] Pipestone Creek - Compressor Station Maintenance

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Upstream James River Receipt Area (USJR)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage ID	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	Outage Description
15781939	SEP 17, 2020	SEP 27, 2020	326	5	152	125-145	Potential impact to FT-R Segments 2, 3, 4, and partial 7 (Upstream of Pipestone Creek)	[TSP Eligible] NPS 36 Western Alberta System Mainline Extension - Pipeline Maintenance
15714476	OCT 26, 2020	OCT 29, 2020	317	22	N/A	270-305	Potential impact to FT-R USJR	[TSP Eligible] Vetchland - Compressor Station Maintenance

This slide is **NOT** applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

Publication:

Compared to:

Aug 05, 2020

Jul 13, 2020

Oil Sands Delivery Area

Actual Flow

Historical Flow

Capability

Previously Reported Capability
Last Monthly Update: July 13th



This slide is NOT applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx. 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 with potential impact isolated to just OSDA and NEDA

This slide is **NOT** applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx.
Please refer to the DOP on TC Customer Express for current outage information

Publication:

Compared to:

Aug 05, 2020

Jul 13, 2020

East Gate

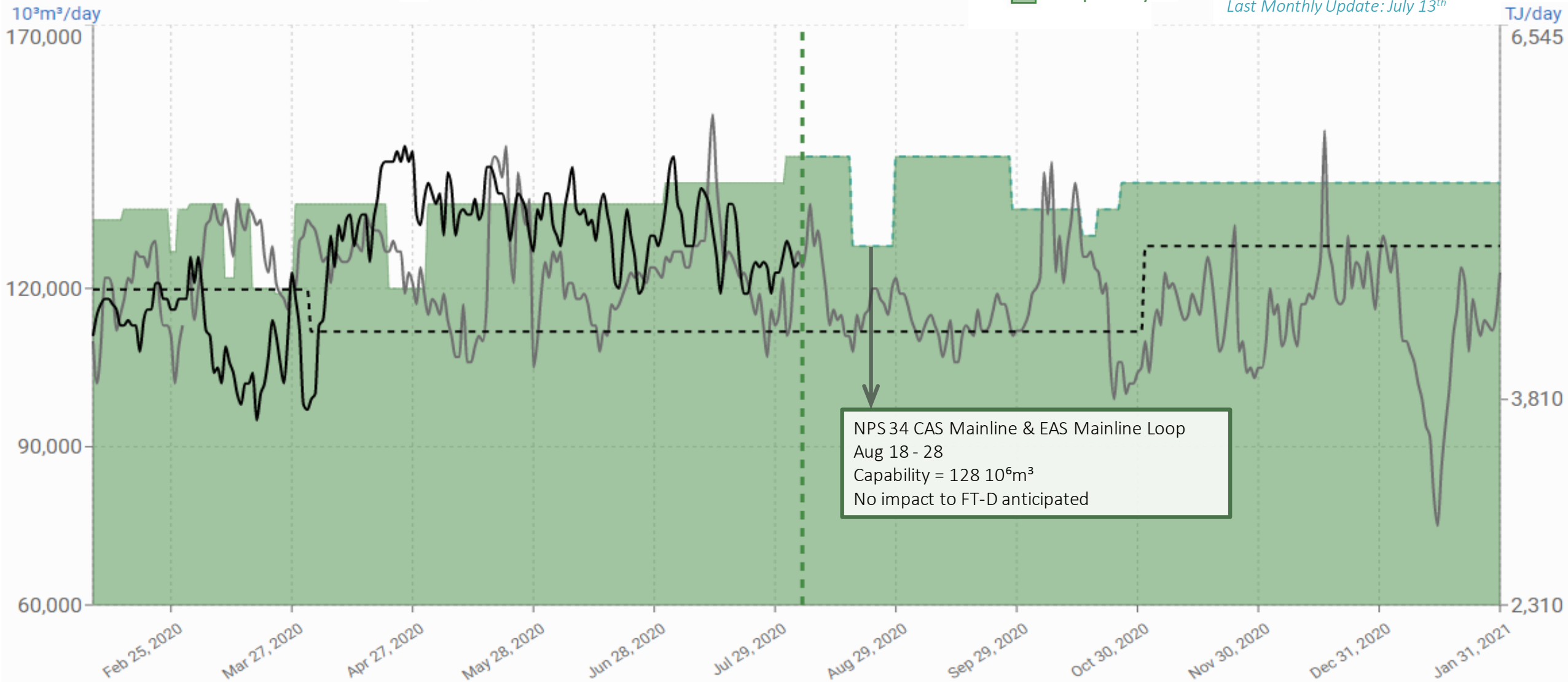
Actual Flow

Historical Flow

Contracts

Capability

Previously Reported Capability
Last Monthly Update: July 13th



This slide is NOT applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

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

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage ID	Start	End	Capability / Allowable (10 ⁶ m ³ / day)	Impact (10 ⁶ m ³ / d)	Service Allowable Location/Area	Outage Description
15782678	AUG 18, 2020	AUG 28, 2020	128	17	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, partial 21, and partial 28	NPS 34 CAS Mainline and EAS ML Loop - Pipeline Maintenance
15862705	SEP 28, 2020	OCT 25, 2020	135	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 Central Alberta System Mainline Loop - Pipeline Maintenance
15695808	OCT 16, 2020	OCT 19, 2020	130	10	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28	Beiseker - Compressor Station Modifications
15786231	OCT 15, 2020	OCT 20, 2020	25		Potential impact to FT: McNeill Border Foothills SK	NPS 42 Foothills Zone 9 (Shaunavon to Monchy)- Pipeline Maintenance

This slide is **NOT** applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

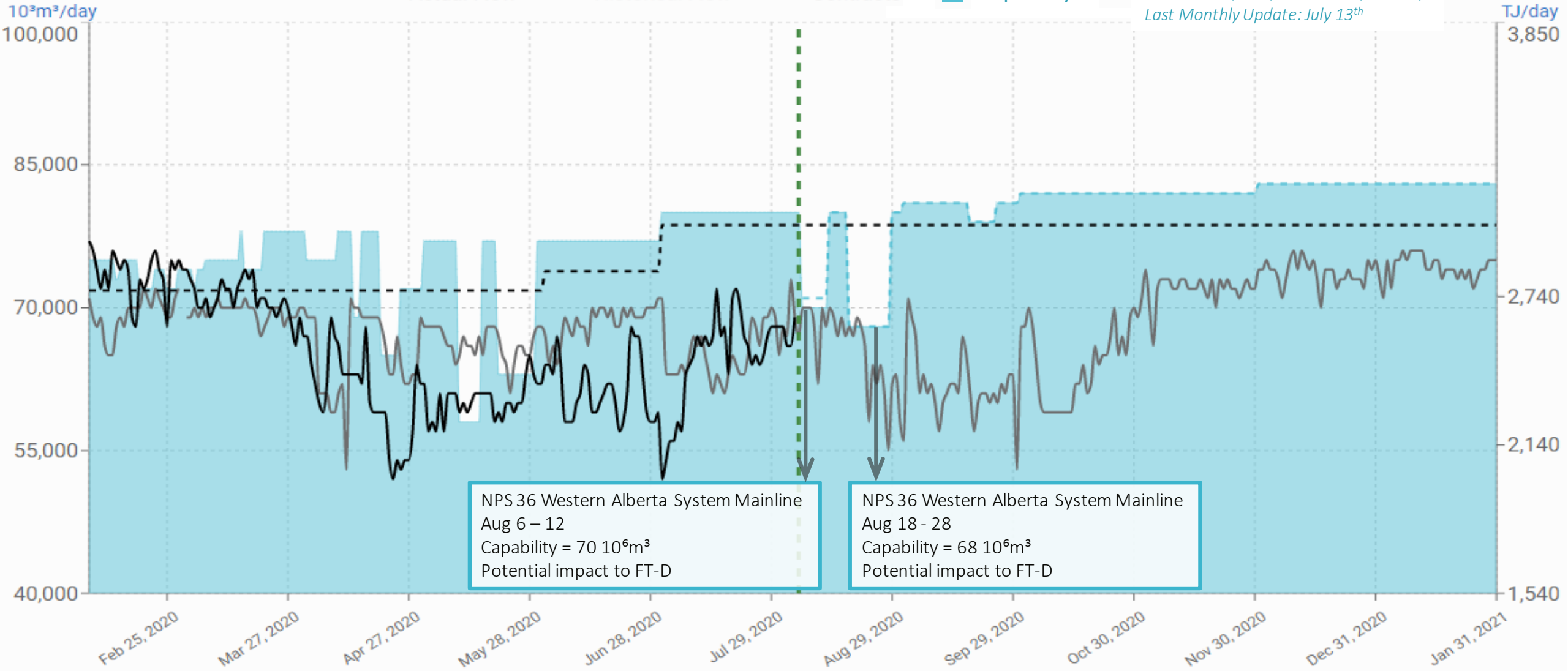
Publication: Aug 05, 2020

Compared to: Jul 13, 2020

Alberta-B.C. Border

Actual Flow Historical Flow Contracts Capability Previously Reported Capability

Last Monthly Update: July 13th



This slide is **NOT** applicable beyond the August 6, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

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

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage ID	Start	End	Capability/ Allowable (10 ⁶ m ³ /day)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area	Outage Description
16659081	AUG 06, 2020	AUG 12, 2020	70	10	Potential impact to FT-D: Alberta/BC Border Segments 22 and partial 21	NPS 36 Western Alberta System Mainline - Pipeline Maintenance
15782794	AUG 18, 2020	AUG 28, 2020	68	12	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders	NPS 36 Western Alberta System Mainline - Pipeline Maintenance
16659086	SEP 18, 2020	SEP 24, 2020	79	2	No impact to FT-D anticipated: Alberta/BC Border Segments 22 and partial 21	NPS 42 Western Alberta System Mainline - Pipeline Maintenance

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Please refer to the DOP on TC Customer Express for current outage information



Upcoming enhancements to *mytccustomerexpress.com*:

Bulletins

Bulletins | What's changing?

We sent out our first NrG bulletin on July 16, 1997. Since then, we've been using NrG Highway for all of our broad customer communications. After 23 years and many enhancements, we're saying **thank you** to NrG.

THE SAME	DIFFERENT
<ul style="list-style-type: none">• E-mail notifications• Your current subscriptions• Search page	<ul style="list-style-type: none">• Bulletin search will be located here: my.tccustomerexpress.com (<i>where you'll find DOP</i>)• All Pipeline notices in one place• Additional search capabilities• Subscriptions now self-managed

BULLETINS

Welcome to the **NEW** NGTL/FH Daily Operating Plan. See the [FAQ](#) or [Contact](#) for assistance.



NGTL Outages



Bulletins



Contact



FAQ

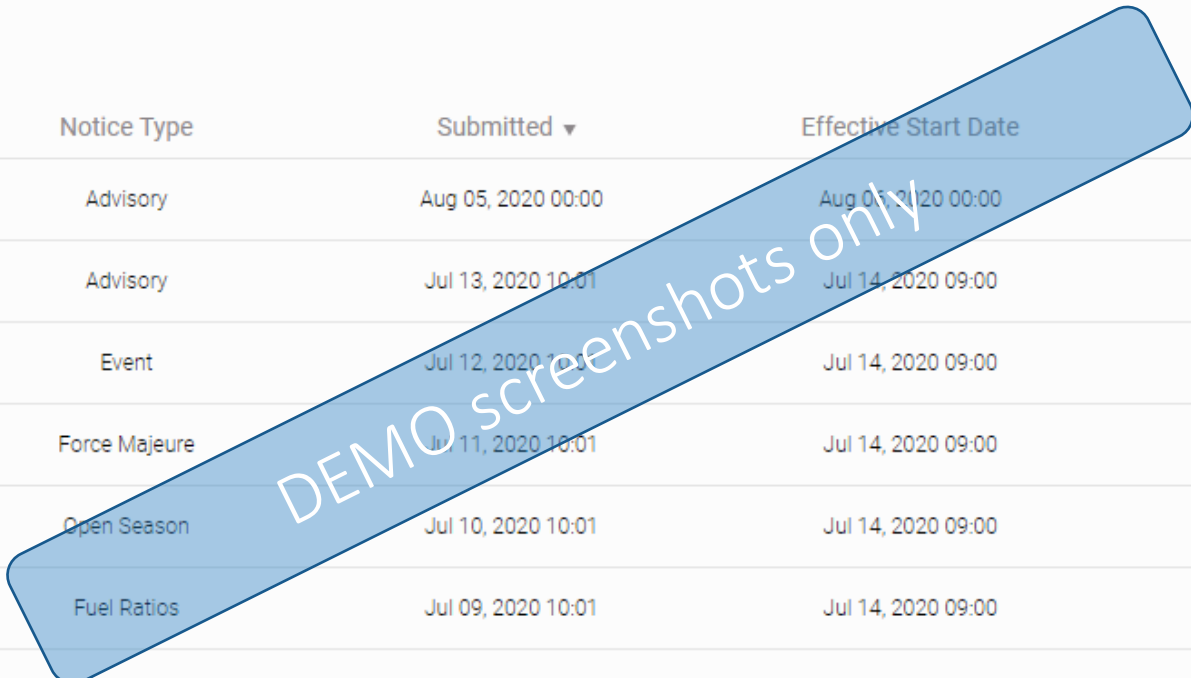
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All Service Provider ▼ SEARCH

Advanced ▼

Result per page 50 ▼

Service Provider	Notice Type	Submitted ▼	Effective Start Date	Subject	
NGTL	Advisory	Aug 05, 2020 00:00	Aug 05, 2020 00:00	Test Bulletin	view
NGTL	Advisory	Jul 13, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Event	Jul 12, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
NGTL	Force Majeure	Jul 11, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Open Season	Jul 10, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Fuel Ratios	Jul 09, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
NGTL	Advisory	Jul 08, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Other	Jul 07, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	PALS Transactions	Jul 06, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Project Update	Jul 05, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view ²²



BULLETINS

Welcome to the **NEW** NGTL/FH Daily Operating Plan. See the [FAQ](#) or [Contact](#) for assistance.



NGTL Outages



Bulletins



Contact



FAQ

- All Service Provider ▾
- All Service Provider
- NGTL
- Mainline
- Great Lakes Canada
- Foothills BC
- Foothills Saskatchewan

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SEARCH

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Submitted From Date Submitted To Date

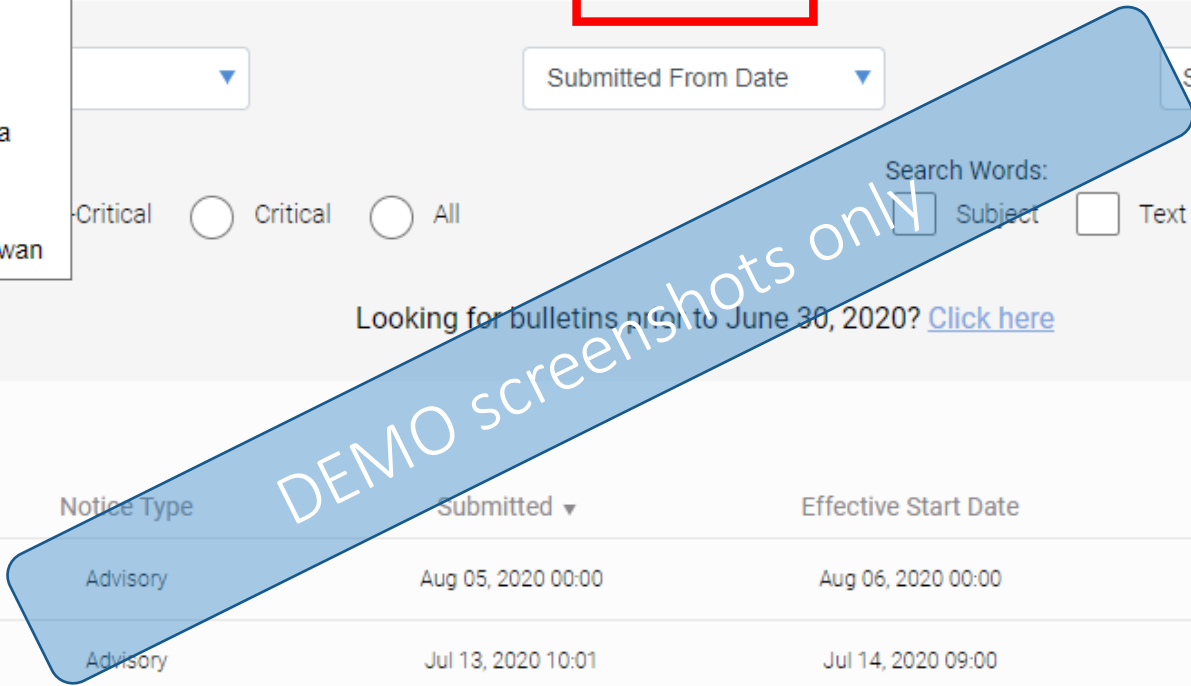
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Looking for bulletins prior to June 30, 2020? [Click here](#)

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NGTL	Advisory	Aug 05, 2020 00:00	Aug 06, 2020 00:00	Test Bulletin	view
NGTL	Advisory	Jul 13, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Event	Jul 12, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
NGTL	Force Majeure	Jul 11, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view
Mainline	Open Season	Jul 10, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view ²³
Mainline	Fuel Ratio	Jul 09, 2020 10:01	Jul 14, 2020 09:00	Seed Bulletin for Testing	view

For informational purposes only



Manage Subscription

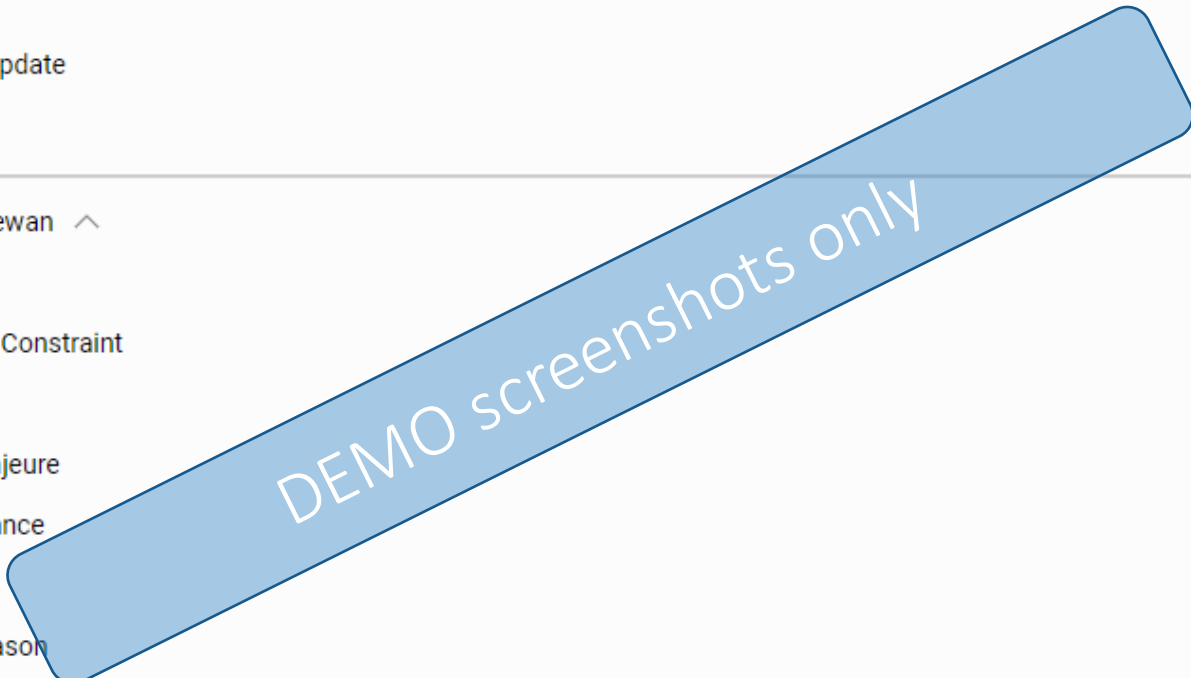
- Event
- Force Majeure
- Maintenance
- News
- Open Season
- Other
- Project Update

! Welcome to the NEW NGTL/FH Daily Operating Plan. See the [FAQ](#) or [Contact](#) for assistance.



Foothills Saskatchewan ^

- Bulletin
 - Capacity Constraint
 - Event
 - Force Majeure
 - Maintenance
 - News
 - Open Season
 - Other
 - Project Update



Action

Next Steps for TC Energy:

- Deployment: aiming for late-August 2020
- Support: FAQ ([to be released](#)) + Pipeline ([403.920.PIPE](#))

When we are live:

- Whitelist the new bulletin address once announced
- Update subscriptions
- Provide feedback [HERE](#)

DOP 2.0 – We're Checking In

Is DOP 2.0 is providing value to your business?

1 MINUTE EVALUATION

Contact information

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