# NGTL System and Foothills Pipe Lines Ltd. Customer Operations Meeting - Review of July/Aug Outages & How 'Transfers to Storage' Works August 20, 2021

## **Safety Moment**



# Safety Moment: Forest Fires

Wildfires have become more frequent and more severe. Warmer and drier temperature May - Sept lead to longer, more intense fire seasons.

This can directly impact highway travel especially through the Rocky Mountains in Alberta and BC

# **Tips**

- Plan your route before hand and constantly check road status' on local road safety websites.
- Follow orders of the local authority ex. "non-essential travel"
- Pack wisely and be prepared to encounter a fire

## To-dos

eee

- Drive with your Headlights on
- Slow down and drive cautiously
- Keep calm and cooperate
- Roll up window and close vents

## Agenda



## **1. Review of July & August Outages | Guiding Principles for System Operations**

### System managed in accordance with NGTL guiding principles:

- 1. Prioritize availability of firm service reduce IT availability first reducing flow to align with system capability
- 2. Optimize throughput maximize system capability without incremental impact to FT availability



### Managing system constraints

- Outages are necessary to facilitate safe execution of maintenance program to ensure safety and reliability of the system
- When restrictions are required, NGTL **consistently applies** the guiding principles to manage system flow and align the flow with throughput capability at the constraint
- Each system constraint is **unique and assessed specifically** based on the location and facilities involved in the outage, system load factor, linepack, supply and demand distribution, and other applicable factors
- The same facility outage at **different times** may result in **different restrictions** (services, areas, magnitude or duration)

# 1. Review of July & August Outages | July 26 – August 2, 2021



# 1. Review of July & August Outages | August 3 – 9, 2021



### NPS 42 Edson & Central Alberta Mainline Loop (Aug 3 – 16)

- Inline inspection Clearwater C/S to Hussar C/S (bottleneck at Clearwater C/S)
- July 27 Communicated Greater EGAT 0% IT-D remains in effect
- August 5 Capability updated from 127 10<sup>6</sup>m<sup>3</sup>/d to 124 10<sup>6</sup>m<sup>3</sup>/d







# 1. Review of July & August Outages | August 10 – 16, 2021



# 1. Review of July & August Outages | August 17 – 24, 2021



### NPS 42 Foothills Zone 6 Pipeline Maintenance (Aug 17 – 24)

- Inline inspection from Schrader C/S to Hussar C/S (bottleneck at Schrader C/S)
- July 27 Communicated Greater EGAT 0% IT-D remains in effect



\*100% FT-D Utilization Assumption

## **1. Review of July & August Outages | NGTL Flows Before/During Outages**



For information purposes only

# 1. Review of July & August Outages | Summary



Multiple outages resulted in changing geographic bottlenecks on the system

- Berland River Compressor Station outage resulted in Broad Area Restriction
- NPS 42 Edson & Central Alberta Mainline Loop, and both NPS 42 Foothills Zone 6 outages resulted in Local Area Restrictions
- Every outage is unique, and restrictions will be applied based on guiding principles



Service availability adjusted based on



Guiding Principles to manage flows through

### bottlenecks

- 1. Prioritize Firm Service
- 2. Optimize throughput



### Communicated outages and impacts via:

- Daily Operating Plan updates
- Customer Operations Meetings
- Advisory Bulletins
- NGTL System Dashboard
- Service Bulletins

# 2. Utilization of FT-Transfers to Storage, as of August 19, 2021

## Since implementation of the Transfers to Storage pilot on April 1, 2021

In the contracting system



- 93 requests submitted to contracting system
- 2 in May, 1 in June, 10 in July, **80** in August
- 92 approved, 1 denied
- Minimum request 100 GJ/d, maximum request 80 TJ/d, average 16 TJ/d

6 additional pre-evaluation inquiries



• (2) hydraulically positive, (3) hydraulically negative and (1) crossing restricted area boundary



# **3. Share NGTL learnings and feedback from customers**

Firm Transfers to Storage is a **Pilot program;** we anticipate growing pains like any other pilot, but we also see opportunities for learning and the ability to continuously improve.



# **3. Share NGTL learnings and feedback from customers**

As committed during the Access to Storage Task Force, NGTL is open to suggestions during the review period of the Pilot and will report back to the TTFP on various aspects of the Pilot by May 2022



**Optional Education Session:** How 'FT-Transfers to Storage' works

# 4. How 'FT-Transfers to Storage' works | Agenda



# 4. How 'FT-Transfers to Storage' works | Definitions

- FT-R Transfer from a receipt station to storage for withdrawal
- FT-DTransfer from a delivery station to storage for injection (Excludes FT-D3)
- Out & Back Transfer two transfers submitted and processed as a pair
  - The "out" transfer goes from location A to a storage location, and is hydraulically neutral or positive
  - The "back" transfer is a future dated transfer from a storage location to location A within a 40-day window
- Automated Transfer Process (ATP) existing functionality that can be utilized to automatically approve transfers that meet the automation criteria
- Effective Gas Day gas day on which FT-Transfer to Storage is effective

# 4. How 'FT-Transfers to Storage' works | Key Eligibility Criteria

## **Transfers**

- Service must be in secondary term
- Requests may be submitted up to 39 days in advance of, and including, the requested Effective Gas Day
- Existing capacity must be sufficient to accommodate the request
- Transfers must be hydraulically neutral or positive for acceptance with some exceptions

### Additional Criteria for FT-Transfers to

### <u>Storage</u>

- Only available on an Out & Back basis, One-way transfers are not permitted
- Only applicable to FT-R, FT-D1 and FT-D2 service holders
- FT Transfers to Storage are only available at storage locations that qualify for IT-S service
- All transfers must be hydraulically neutral or positive for acceptance

For complete eligibility criteria, review '<u>NGTLFT-Transfers to Storage Procedure</u>' by clicking <u>HERE</u>

## 4. How 'FT-Transfers to Storage' works | Simplified Process



#### Note:

- A request that is approved will be allowed to return to its Home Location at any time, subject to Availability at Home Location
- Transferred to Storage contracts approved as per this process will have same priority of service as other firm services during planned/unplanned interruptions
- \*Customers requesting FT-Transfers to Storage that cross DDA boundaries will be warned that 6 years of term will be added to the contracts involved in the transfer

## 4. How 'FT-Transfers to Storage' works | System Impact of Transfer Hydraulics



## 4. How 'FT-Transfers to Storage' works | Transfer Practices in Fully Contracted Areas





Fully Contracted Delivery Area



### NGTL System - Capacity (tccustomerexpress.com)

# 4. How 'FT-Transfers to Storage' works | Delivery Examples

### SE Delivery Design Area



### Upstream Transfer to Storage in EGAT area

FT-D 100 units **upstream** to storage Within Design Delivery Area **Hydraulically positive** Sufficient meter capacity

Request is **approved** 

>95% of FT Transfer to Storage requests received to date

# 4. How 'FT-Transfers to Storage' works | Delivery Examples



Pre-evaluation request examples

Upstream Transfer WGAT to January Creek

FT-D 100 units **upstream** to storage Within Design Delivery Area **Service transferred out of Fully Contracted Delivery Area is not permitted to return** (in fairness to customers awaiting availability within the area) Hydraulically positive Sufficient meter capacity Request is **not approved**  Downstream Transfer WGAT to Crossfield East

FT-D 100 units **downstream** to storage Within Design Delivery Area **Hydraulically negative** Sufficient meter capacity

Request is not approved

Upstream Transfer East Calgary Area to Crossfield East

FT-D 100 units **upstream** to storage Within Design Delivery Area **Hydraulically positive** Sufficient meter capacity

Request is approved

# 4. How 'FT-Transfers to Storage' works | Delivery Examples

### SW & SE Delivery Design Areas





# 4. How 'FT-Transfers to Storage' works | Receipt Examples

### Peace River Project Area



#### Downstream Transfer to Big Eddy

FT-R 100 units **downstream** to storage Within Project Area **Hydraulically positive** Sufficient meter capacity

Request is **approved** 

#### Upstream Transfer to Big Eddy

FT-R 100 units **upstream** to storage Within Project Area **Hydraulically negative** Sufficient meter capacity

Request is not approved

## 4. How 'FT-Transfers to Storage' works | Requesting an Out/Back Transfer to Storage



In Customer Activities, select Contract Management followed by "Request for Service"





Select relevant firm service type under Out/Back Transfer

ET-02 ET-03 ET-8	Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 3 Firm Transportation Receipt
ARLY REVER	T TEMPORARY ASSIGNMENT
ET-01 ET-02 ET-8 ET-8N	Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Receipt Firm Transportation Receipt Non Renewable
OUT/BACK TR	RANSFER
ET-01 ET-02 ET-8	Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Receipt
PERMANENT	ASSIGNMENT
ET-D1	Firm Transportation Delivery Crown 1
FT-02 FT-8 FT-8N	Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Receipt Firm Transportation Receipt Non Renewable
FT-D1 FT-D2 FT-B FT-RN RENEW	Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Receipt Firm Transportation Receipt Non Renewable
ET-01 FT-02 FT-8 FT-8N RENEW ET-01 FT-02 FT-02 FT-03 FT-02 FT-03 FT-03 FT-04 FT-04 FT-02 FT-04 FT-02 FT-04 FT-02 FT-8 FT-92 FT	Eirm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Eirm Transportation Receipt Firm Transportation Receipt Non Renewable Eirm Transportation Delivery Group 1 Eirm Transportation Delivery Group 2 Eirm Transportation Delivery Group 3 Eirm Transportation Receipt Interruptible – Access to Storage
ET-01 ET-02 ET-8 ET-8N ET-91 ET-92 ET-91 ET-92 ET-92 ET-92 ET-92 ET-92 ET-92 ET-92 ET-93 ET-91 ET-91 ET-91 ET-92 ET-91 ET-92 ET-8 ET-92 ET-8 ET-80 ET-91 ET-	Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Receipt Firm Transportation Receipt Non Renewable Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 3 Firm Transportation Delivery Group 3 Firm Transportation Delivery Group 3 Firm Transportation Receipt Interruptible - Access to Storage
FI-D1 FI-D2 FI-S FI-SN FI-SN FI-D2 FI-D2 FI-D2 FI-D2 FI-SN FI-D1 FI-D2 FI-SN	Eirm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Eirm Transportation Receipt Firm Transportation Receipt Non Renewable Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 2 Firm Transportation Receipt Interruptible - Access to Storage ASSIGNMENT ALBERTA Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 2 Firm Transportation Delivery Group 2 Firm Transportation Receipt Firm Transportation Receipt
FT-01 FT-92 FT-8 FT-8N FT-9N FT-92 F	Eirm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Eirm Transportation Receipt Firm Transportation Receipt Non Renewable Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Eirm Transportation Delivery Group 3 Eirm Transportation Receipt Interrubible - Access to Storage ASSIGNMENT ALBERTA Firm Transportation Delivery Group 1 Firm Transportation Delivery Group 2 Eirm Transportation Delivery Group 2 Eirm Transportation Delivery Group 2 Eirm Transportation Delivery Group 1 Eirm Transportation Delivery Group 2 Eirm Transportation Receipt Non Renewable

## 4. How 'FT-Transfers to Storage' works | Requesting an Out/Back Transfer to Storage



### Input transfer information and select 'Find Eligible Contracts'

*Email Address Option – all notifications for this request will be sent to this email in addition to primary contract contact.* 

Request for Service	: Out/Back Firm Transportation Receipt Transfer		
		FIND ELIGIBLE CONTRACTS	CANCEL
SERVICE REQUESTER:	TS01		
SERVICE PROVIDER:	NOVA Gas Transmission Ltd.		
START DATE:	2017-Sep-01		
BACK START DATE:	2017-Oct-01 团		
FROM LOCATION:	1624 - CONKLIN (CONKL) 0001624		
TO LOCATION:	1634 - CONKLIN WEST (CONKW) 0001634		
TRANSFER QUANTITY:	0.1 e3m3/day		
EMAIL ADDRESS	ngtl_contracting@transcanada.com		
SELECTED AMOUNT TYPE:	Full request on selected contract     Ont to Exceed request on selected contract     Retain request on selected contract     Onlinimum Available		
*Note: Should you f	fill in the email then all notifications for this request will be sent t	o this email address.	



### Select contract(s) and quantity

Request for	r Service: (	Jut/Back Firm T	ransportation	Receipt	Transfer			1
						VAL	IDATE SUBMIT	CANCEL
SERVICE REQUES	TER:	TS01						
ERVICE PROVIDE	ER:	NOVA Gas Transmission L	.td.					
TART DATE:		2017-Sep-01						
ACK START DATE	E;	2017-Oct-01						
ROM LOCATION:		CONKLIN						
O LOCATION:		CONKLIN WEST						
RANSFER QUANT	TTTY:	0.1 e3m3/day						
MAIL ADDRESS:		ngtl_contracting@transcan	ada.com					
ETTER DATE:								
RECEIVED DATE/T	TIME:	2017-Aug-04 15:38:19						
SELECTED AMOUN	IT TYPE:	Not to Exceed request on s	selected contract					
CONTRACT STATU	IS:	Billable						
CONTRACTS E	LIGIBLE FOR	TRANSFER						
Select all	Contract #	Contract End Date	Transferred Qu	antity	Eligible Quantity	Billing Start Date	Billing End Date	Price Poin
•	2017901539	2020-Jul-31	0.1	e3m3/day	100.0 e3m3/day	2017-Sep-01	2020-Jul-31	В
		Total	0.4			The second s		

## 4. How 'FT-Transfers to Storage' works | Requesting an Out/Back Transfer to Storage

5 Click 'Submit' to complete the request. A summary is displayed and request is sent to NGTL for evaluation

AFOUEET INFORMATION					
REQUEST INFORMATION					
AGREEMENT TYPE:	Firm Transportation Receipt	1	REQUEST TYPE:	Transf	er
REQUEST NUMBER:	R2017520417		SERVICE PROVIDER:	NOVA	Gas Transmission Ltd.
SERVICE REQUESTER:	Test 1 Customer				
APPROVAL DATE:			REQUEST START DATE:	2017-	Sep-01
STATUS:	In Progress		REQUEST END DATE:		
RECEIVED DATE TIME:	2017-Aug-04 16:19:15		ACTUAL START DATE:		
REQUEST OWNER:	Eddie Johnson				
LETTER DATE:	2017-Aug-04				
CANCEL DATE TIME:					
CANCEL REASON:					
CANCELLED DECISION SUMMARY NUMBER:			IS ONLINE PRE-APPROVED:	Yes	
LOCATION(S):	1634:CONKLIN WEST		STARTED AS PREAPPROVED:	Yes	
LOCATION MODIFICATION NOTES:			REQUEST SECONDARY START	DATE:	
IS QUEUED:	No		PROJECT RELATED:	No	
			SELECTED CAVEATS:	No	
TRANSFER FROM LOCATION:	1624:CONKLIN				
REQUEST QUANTITIES					
Quantity Type	Quantity	Start Date	End Date		Location/Quantity Type

<u>Note</u>: 'FT-Transfers to Storage' requests that want to use volumes from temporary assignments that are less than 40 days and will last the entire duration of the assignment, must be entered into the system by the NGTL Contracting team. If these criteria fit your transfer request, please contact <u>ngtl\_contracting@tcenergy.com</u>

## 4. How 'FT-Transfers to Storage' works | Additional Self-Serve Contracting Resources

- In addition to transfers to storage customers have access to self serve capabilities for the following
  contracting transactions through our <u>NRG Dovetail Contracting system</u> and procedures to assist customers
  with these transactions can be found on our <u>NGTLCustomer Activities page</u> in the 'Procedures' section
- Self serve capability available for:
  - One-Way Transfers
  - Out/Back Transfers
  - Temporary Assignments
  - Early Reversion of Temporary Assignments
  - Permanent Assignments
  - Consolidations
  - Renewals
  - Cancellations of In-Progress Requests

These transactions may be approved outside of regular business hours, provided that *further review or analysis* of the transaction is not required.

Transfer to storage instructions specifically can be found <u>here</u>

Please contact ngtl\_contracting@tcenergy.com if further assistance is required

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