

SLIDE REVISIONS

- Please note that changes have been made to outage classifications on slides 37, 44, 45, and 47



NGTL System and Foothills Pipeline Customer

Operations Meeting

September 5, 2018



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. TransCanada shall not be liable for damages sustained as a result of any use or reliance on such information.

Welcome and thank you for joining us!

Safety:

- In case of alarm or emergency, please proceed immediately to the ground-level exit
- Nearest stairs to ground-level exit are outside this room and directly to the left
- Muster point is located on the plus-15 level of 5th Avenue Place (425 1st Street SW)

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 the moderator will ask your question

Safety Moment: Back to School Means Sharing the Road

Playground Zones Near Schools:

- Designated playground zones are an important part of keeping children safe. There are approximately 1,680 playground zones in Calgary. Playground Zones were created to increase the safety of children from motorists traveling through these areas

When driving through a playground zone, remember:

- Children do not perceive traffic like adults do – extra caution is needed
- The maximum permitted speed in playground zones is 30 km/h
- The zones are in effect from 7:30 a.m. to 9 p.m. every day of the year
- You may not pass another vehicle within the playground zone during this time
- Drive carefully and watch for children



Agenda

1. Overview of Organizational Changes in Commercial Operations
2. Changes to Outage Communications Tools
3. 2018 Operational Outlook Update/Review and Expansion Review
4. 2019 Operational Outlook Update/Review

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Operations Planning Personnel Changes



Operations Planning Personnel Changes

Trevor Glen

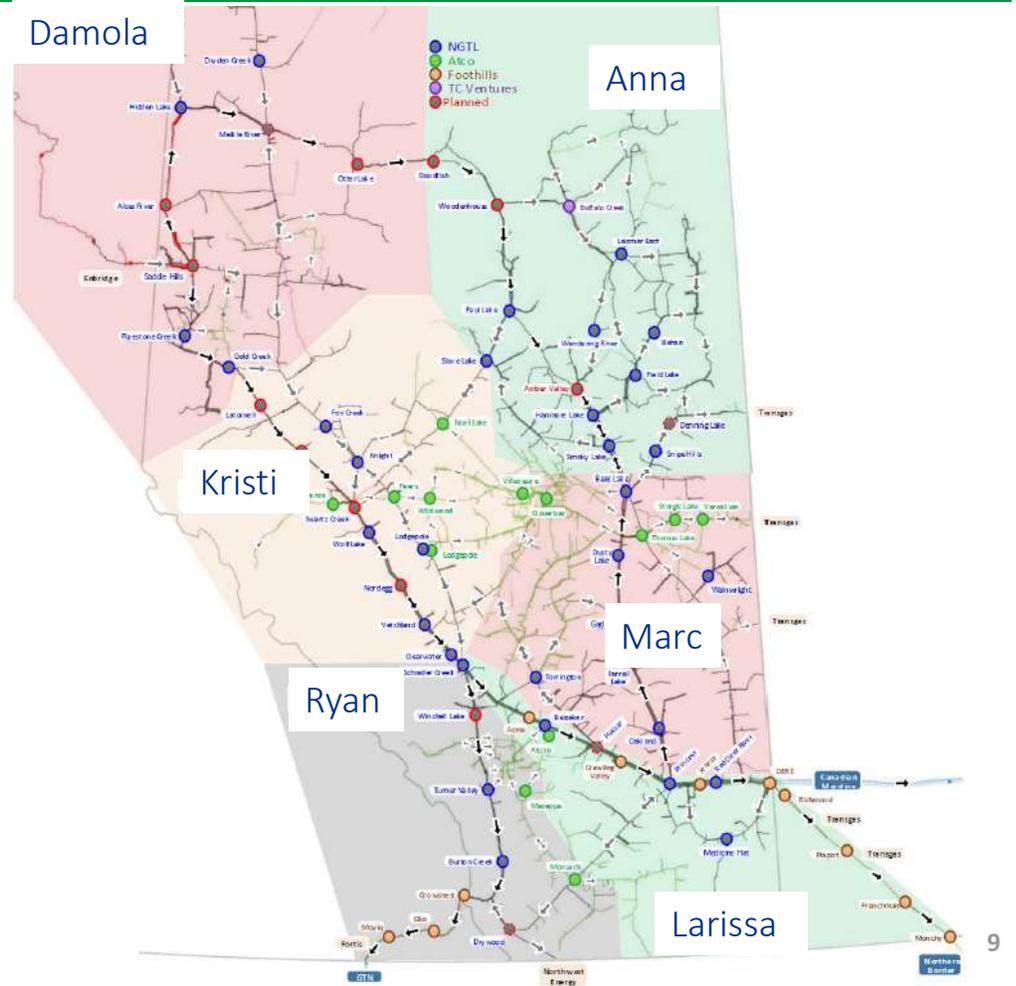
Supervisor, Ops Planning West

Ashley Lim
Chris Pho

Senior Outage Coordinator

Damola Daramola
Anna McFarlan
Marc Fattouche
Kristi Eng
Ryan Cormack
Larissa Zhang
Chuang Li

Outage Coordinator



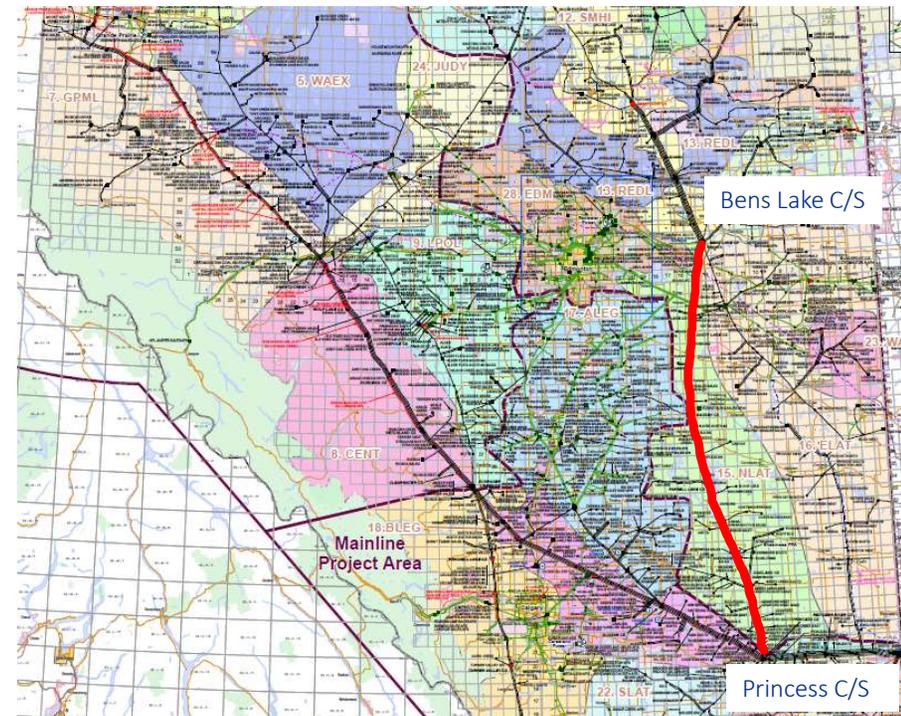
NPS 24/30 North Lateral Loop 2 ILI

North Lateral

- Line between Princess C/S and Bens Lake C/S
- Key flow path to bring gas into NE Alberta (OSDA)

High Priority ILI

- Part of the NEB mandated inspection program
- Complex run (Dual diameter ILI)
- MFL tool in high demand, no contingency days
- Critical flow path to serve OSDA



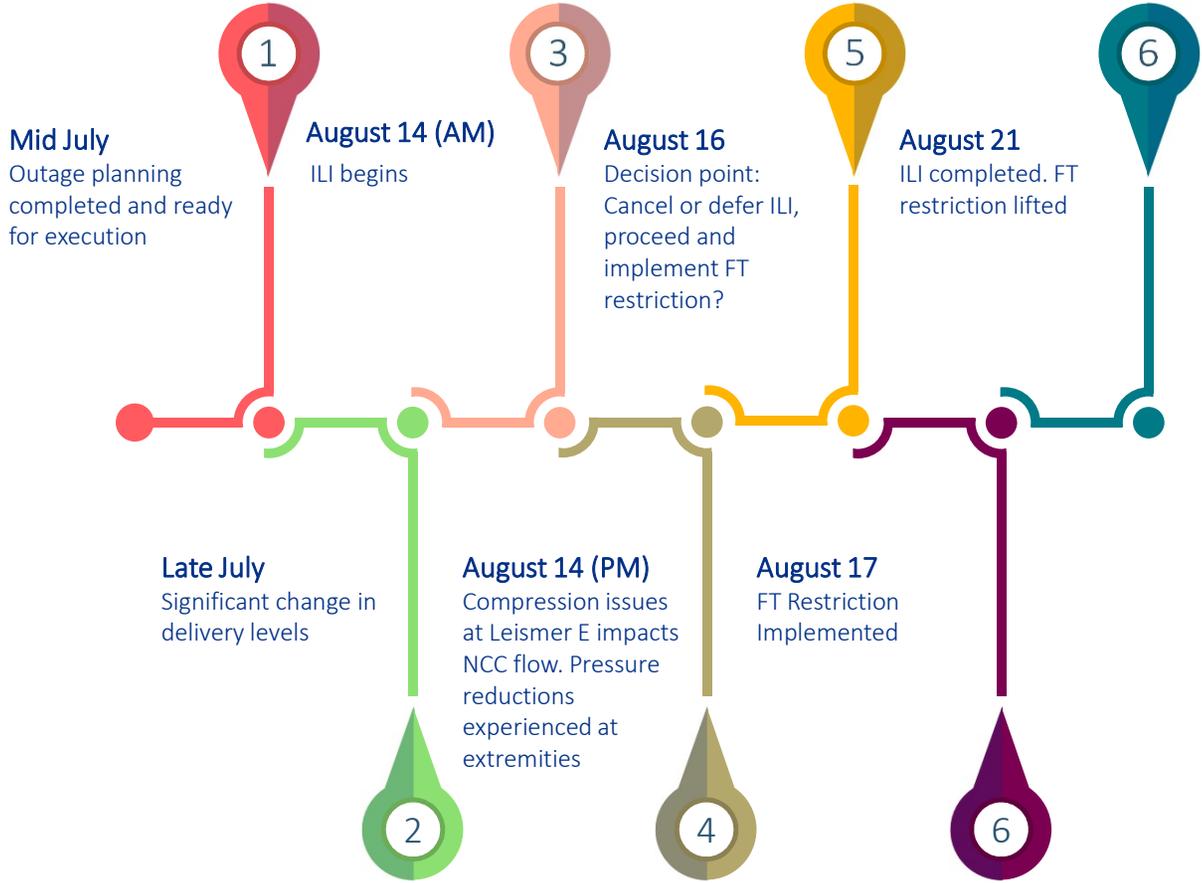
NPS 24/30 North Lateral Loop 2 ILI - Strategy

Execution Strategy

- Pre-pack OSDA
- Stable compression
- Manageable pressure drop during ILI
- Field crews on standby to quickly return NLAT to service

Minimizing FT restriction days requires making strategic risk management decisions

NPS 24/30 North Lateral Loop 2 ILI - Timeline



Contributing Factors

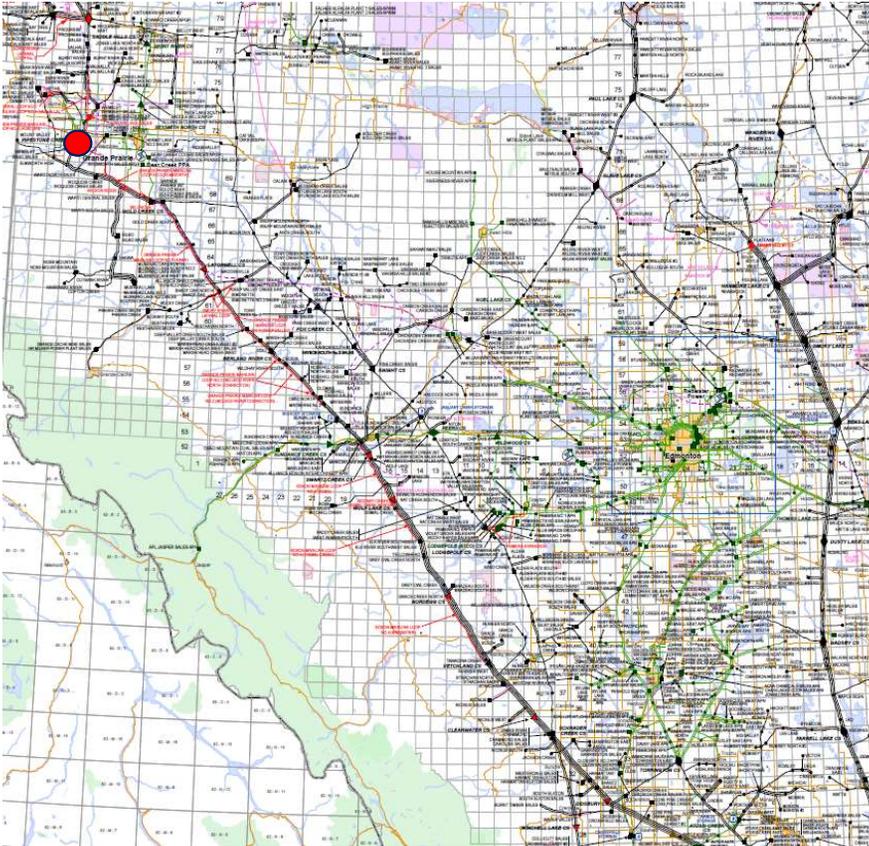
Aggregate demand in the OSDA higher than anticipated:

- Plant Turnaround information critical to operations planning process
- Ops Planning has updated processes to ensure more robust model validation

Leismer East outage:

- Unplanned maintenance event
- Issue was addressed in a timely manner

Pipestone Compressor Station Unplanned Maintenance



July 3rd - Morning

- Pipestone experiences an unplanned outage

July 3rd - Afternoon

- NrG bulletin sent with expected outage end date of July 31st

July 4th - Morning

- NrG bulletin issued, identifying outage as complete

Pipestone Learnings

1. Careful consideration of communication of outage duration when uncertain (eg TBD)
2. Return to service bulletin lacked appropriate context

Clear and consistent communication is critical

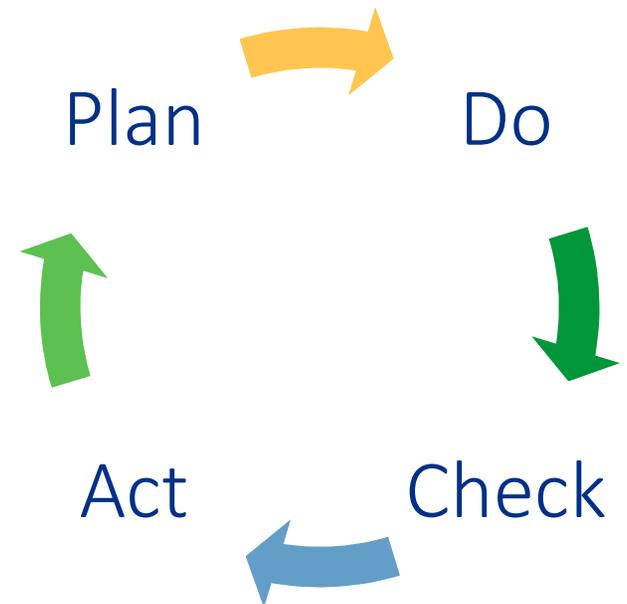
Clear and Consistent Communication

Current:

- Dedicated internal focus on improving communication
- Updated NrG bulletin format
- Customer feedback

Future:

- Next generation reporting



NGTL is committed to understanding and closing communication gaps



Questions?



Agenda

1. Overview of Organizational Changes in Commercial Operations
2. Changes to Outage Communications Tools
3. 2018 Operational Outlook Update/Review and Expansion Review
4. 2019 Operational Outlook Update/Review

Progress to date

- **Focus on continual improvement:**
 - Evaluate existing communication tools
 - Close gaps in our existing processes
 - Progress near term and long term recommendations
- **Solicited external feedback:**
 - Feedback on current perceived gaps
 - Suggestions on how we can improve
- **Introduce and implement near term changes:**
 - Changes to NrG Highway bulletins for changes to service authorization levels
 - Modifications to Daily Operating Plan 'Service Allowable' classification

Ongoing and evolving process – feedback loop of what is working, what is not, and what we can do to close the gaps

NrG Highway Bulletins

Subject: USJR FT – NPS 42 GPML Loop (Notice 1 of 4)

Subject: USJR IT – NPS 42 GPML Loop (Notice 2 of 4)

Subject: EGAT IT – NPS 42 GPML Loop (Notice 3 of 4)

Subject: WGAT IT – NPS 42 GPML Loop (Notice 4 of 4)

With expected supply demand distribution and planned inspections on the NPS 42 Grande Prairie Mainline Loop, service authorization will be revised as follows.

Notice Type	New	Interconnects Included in Area of Impact
Outage Type	Planned	<input checked="" type="checkbox"/> Alberta B.C. <input type="checkbox"/> Aeco C
Outage Scope	Inspection	<input type="checkbox"/> Empress <input type="checkbox"/> Warwick SE
Start	May 22, 2018 08:00 MST	<input type="checkbox"/> McNeill <input type="checkbox"/> Chancellor
Expected End	June 3, 2018 08:00 MST	<input type="checkbox"/> Cold Lake <input type="checkbox"/> Carbon
Service Type	Delivery	<input type="checkbox"/> Unity <input type="checkbox"/> Severn Creek
IT Allowable 0%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-S <input checked="" type="checkbox"/> IT-D	<input checked="" type="checkbox"/> Alberta Montana <input type="checkbox"/> Crossfield East #2
FT Allowable 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT	<input type="checkbox"/> Gordondale <input type="checkbox"/> January Creek
		<input type="checkbox"/> Groundbirch East <input type="checkbox"/> Big Eddy
		<input type="checkbox"/> Boundary Lake

Area of Impact	Unchanged											West Gate Delivery Area													
Segment	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	28
Full																									
Partial																						F	F		

Full Segment 21 is included with the following stations excluded as they are part of the Eastern Gate Delivery Area

CARSELAND COGEN SALES APS- M/S 31017
 GARRINGTON SALES- M/S 3128
 SHEPARD ENERGY SALES CENTRE- M/S 31127

The preceding information supersedes any previously published information and will be reflected and maintained in the next release of the Daily Operating Plan. Updates if required will be communicated through NrG Highway notice otherwise refer to the Daily Operating Plan. All reasonable efforts are made to optimize outage scheduling, minimize outage duration, and maximize operational capability.

NGTL/FH Daily Operating Plan: <http://www.tccustomerexpress.com/ngtl-fh-daily-operating-plan.html>

“Too many bulletins!!”

“Which part has changed, where are the most recent ones, and how do I find them?!”

“Am I interpreting this right?”

“I just want to know what the authorization level is across the whole system....in one convenient place!”

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Service Type	Delivery	<input type="checkbox"/> Unity <input type="checkbox"/> Severn Creek
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		<input type="checkbox"/> Groundbirch East <input type="checkbox"/> Big Eddy
		<input type="checkbox"/> Boundary Lake

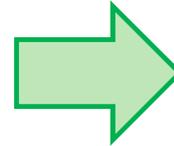
Area of Impact	Unchanged	West Gate Delivery Area
Segment	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 28	
Full		F F
Partial		

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NGTL Service (Update: EGAT IT)

Current and Upcoming Outages			
Facility/Outage Name	Facility Type/Scope	Outage Type	Area of Impact
Schrader Creek	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
Woodenhouse	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
Alces	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
NPS 48 Edson Mainline loop # 4	Pipeline Maintenance	Planned	<input type="checkbox"/> USJR <input type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT

Upstream James River Receipt Area			
Effective:	June 2, 2018 at 13:00 MST	IT Allowable: 0%	<input checked="" type="checkbox"/> IT-R <input type="checkbox"/> IT-D <input checked="" type="checkbox"/> IT-S (receipt)
Expected End:	Until further notice	FT Allowable: 100%	<input checked="" type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input type="checkbox"/> FT-D2
Interconnects:	Boundary Lake, Big Eddy, Gordondale, Groundbirch East, January Creek		
Segments:	1, 2, 3, 4, 5, 7, partial 8, and partial 9		
Sub Area/Comments:	Greater USJR		

West Gate Delivery Area			
Effective:	July 22, 2018 at 08:00 MST	IT Allowable: 100%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D
Expected End:	Until further notice	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects:	Alberta B.C. and Alberta Montana		
Segments:	22 and partial 21		
Sub Area/Comments:	Greater WGAT		

East Gate Delivery Area			
Effective:	August 21, 2018 at 21:00 MST	IT Allowable: Partial	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D
Expected End:	September 1, 2018 at 08:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects:	Aeco C, Carbon, Chancellor, Crossfield East # 2, Severn Creek, Empress, McNeill, Unity, Warwick SE		
Segments:	15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28		
Sub Area/Comments:	Lower EGAT		

Effective:	September 1, 2018 at 08:00 MST	IT Allowable: Partial	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D
Expected End:	September 10, 2018 at 08:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects:	Aeco C, Carbon, Chancellor, Crossfield East # 2, Severn Creek, Empress, McNeill, Unity, Warwick SE		
Segments:	15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28		
Sub Area/Comments:	Lower EGAT		

Effective:	September 3, 2018 at 08:00 MST	IT Allowable: 0%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D
Expected End:	September 10, 2018 at 13:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects:	Cold Lake		
Segments:	6, 10, 11, 12, 13, 14, 24		
Sub Area/Comments:	Upper EGAT		

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New/updated Information

- Affected Area or Service Type
- Unaffected Area or Service Type

NrG Highway Bulletin Format

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Expected End: Until further notice	FT Allowable: 100%	<input checked="" type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input type="checkbox"/> FT-D2	
Interconnects: Boundary Lake, Big Eddy, Gordondale, Groundbirch East, January Creek			
Segments: 1 , 2 , 3 , 4 , 5 , 7 , partial 8 , and partial 9			
Sub Area/Comments: Greater USJR			

West Gate Delivery Area			
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Interconnects: Alberta B.C. and Alberta Montana			
Segments: 22 and partial 21			
Sub Area/Comments: Greater WGAT			

East Gate Delivery Area			
Effective: August 21, 2018 at 21:00 MST	IT Allowable: Partial	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D	
Expected End: September 1, 2018 at 08:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT	
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Segments: 15 , 16 , 17 , 18 , 19 , 20 , 23 , partial 21 , and partial 28			
Sub Area/Comments: Lower EGAT			
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Interconnects: Cold Lake			
Segments: 6 , 10 , 11 , 12 , 13 , 14 , 24			
Sub Area/Comments: Upper EGAT			

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New/updated information

- Affected Area or Service Type
- Unaffected Area or Service Type

‘One stop shop’ that:

- Includes all events that are affecting service levels
- Summarizes service levels across the NGTL system in one single bulletin
- Eliminates the need for ‘Start’, ‘Update’, and ‘End’ classifications
- Supersedes any previous publications

Bulletin for illustration purposes only

NrG Highway Bulletin Format

NGTL Service (Update: EGAT IT)

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Woodenhouse	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
Alces	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
NPS 48 Edson Mainline loop # 4	Pipeline Maintenance	Planned	<input type="checkbox"/> USJR <input type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT

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Expected End:	Until further notice	FT Allowable: 100%	<input checked="" type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input type="checkbox"/> FT-D2
Interconnects:	Boundary Lake, Big Eddy, Gordondale, Groundbirch East, January Creek		
Segments:	1 , 2 , 3 , 4 , 5 , 7 , partial 8 , and partial 9		
Sub Area/Comments:	Greater USJR		

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Segments:	15 , 16 , 17 , 18 , 19 , 20 , 23 , partial 21 , and partial 28		
Sub Area/Comments:	Lower EGAT		

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New/updated information

- Affected Area or Service Type
- Unaffected Area or Service Type

Current and Upcoming Outages:

- Facility Name
- Facility Type/Scope
- Outage Type (planned or unplanned)
- Area of Impact (USJR, WGAT, or EGAT)
 - indicates affected area
 - indicates unaffected area

Yellow indicates new or updated information

Bulletin for illustration purposes only

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Effective:	September 3, 2018 at 08:00 MST	IT Allowable: 0%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D
Expected End:	September 10, 2018 at 13:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P <input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects:	Cold Lake		
Segments:	6, 10, 11, 12, 13, 14, 24		
Sub Area/Comments:	Upper EGAT		

The preceding information supersedes any previously published information and will be reflected and maintained in the next release of the Daily Operating Plan. Updates, if required, will be communicated through NrG Highway notice otherwise refer to the [Daily Operating Plan](#).

New/updated information

- Affected Area or Service Type
- Unaffected Area or Service Type

- Split into 3 main areas (similar to the Daily Operating Plan):
 - Upstream James River (USJR)
 - West Gate (WGAT)
 - East Gate (EGAT)
 - Includes Oil Sands Delivery Area (OSDA) and North East Delivery Area (NEDA)
- Dates:
 - Effective: date and time change is effective
 - Expected End: estimate of when the facility will return to service (in some cases, TBD may be used)
- IT/FT Allowable:
 - indicates affected service type
 - indicates unaffected service type

Bulletin for illustration purposes only

NrG Highway Bulletin Format

NGTL Service (Update: EGAT IT)

Current and Upcoming Outages			
Facility/Outage Name	Facility Type/Scope	Outage Type	Area of Impact
Schrader Creek	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
Woodenhouse	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
Alces	Compressor Maintenance	Planned	<input checked="" type="checkbox"/> USJR <input checked="" type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT
NPS 48 Edson Mainline loop # 4	Pipeline Maintenance	Planned	<input type="checkbox"/> USJR <input type="checkbox"/> WGAT <input checked="" type="checkbox"/> EGAT

Upstream James River Receipt Area			
Effective: June 2, 2018 at 13:00 MST	IT Allowable: 0%	<input checked="" type="checkbox"/> IT-R <input type="checkbox"/> IT-D	<input checked="" type="checkbox"/> IT-S (receipt)
Expected End: Until further notice	FT Allowable: 100%	<input checked="" type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P	<input type="checkbox"/> FT-D2
Interconnects: Boundary Lake, Big Eddy, Gordondale, Groundbirch East, January Creek			
Segments: 1 , 2 , 3 , 4 , 5 , 7 , partial 8 , and partial 9			
Sub Area/Comments: Greater USJR			

West Gate Delivery Area			
Effective: July 22, 2018 at 08:00 MST	IT Allowable: 100%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D	
Expected End: Until further notice	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P	<input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects: Alberta B.C. and Alberta Montana			
Segments: 22 and partial 21			
Sub Area/Comments: Greater WGAT			

East Gate Delivery Area			
Effective: August 21, 2018 at 21:00 MST	IT Allowable: Partial	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D	
Expected End: September 1, 2018 at 08:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P	<input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects: Aeoco C, Carbon, Chancellor, Crossfield East # 2, Severn Creek, Empress, McNeill, Unity, Warwick SE			
Segments: 15 , 16 , 17 , 18 , 19 , 20 , 23 , partial 21 , and partial 28			
Sub Area/Comments: Lower EGAT			

Effective: September 1, 2018 at 08:00 MST	IT Allowable: Partial	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D	
Expected End: September 10, 2018 at 08:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P	<input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects: Aeoco C, Carbon, Chancellor, Crossfield East # 2, Severn Creek, Empress, McNeill, Unity, Warwick SE			
Segments: 15 , 16 , 17 , 18 , 19 , 20 , 23 , partial 21 , and partial 28			
Sub Area/Comments: Lower EGAT			

Effective: September 3, 2018 at 08:00 MST	IT Allowable: 0%	<input type="checkbox"/> IT-R <input checked="" type="checkbox"/> IT-D	
Expected End: September 10, 2018 at 13:00 MST	FT Allowable: 100%	<input type="checkbox"/> FT-R <input checked="" type="checkbox"/> FT-P	<input checked="" type="checkbox"/> FT-D1 <input checked="" type="checkbox"/> FT-D2 <input checked="" type="checkbox"/> STFT
Interconnects: Cold Lake			
Segments: 6 , 10 , 11 , 12 , 13 , 14 , 24			
Sub Area/Comments: Upper EGAT			

The preceding information supersedes any previously published information and will be reflected and maintained in the next release of the Daily Operating Plan. Updates, if required, will be communicated through NrG Highway notice otherwise refer to the [Daily Operating Plan](#).

New/updated information

- Affected Area or Service Type
- Unaffected Area or Service Type

- Station list: Accessed via hyperlink on segment list
 - Dark grey indicates full segment
 - Light grey indicates partial segment
 - Not shaded indicates that the segment is unaffected

Lower East Gate																											
Interconnects	<input checked="" type="checkbox"/> Aeoco C	<input checked="" type="checkbox"/> Carbon	<input checked="" type="checkbox"/> Chancellor	<input type="checkbox"/> Cold Lake	<input checked="" type="checkbox"/> Crossfield East #2																						
	<input checked="" type="checkbox"/> Severn Creek	<input checked="" type="checkbox"/> Empress	<input checked="" type="checkbox"/> McNeill	<input checked="" type="checkbox"/> Unity	<input checked="" type="checkbox"/> Warwick SE																						
Segment	Full	Partial	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	28

Partial segments include the following locations:

Location Number	Location Mnemonic	Location Name	Segment #
31017	CARCSL	CARSELAND COGEN SALES APS	21
3128	GARSL	GARRINGTON SALES	21
31127	SHEPSL	SHEPARD ENERGY CENTRE SALES - APS	21
31004	AGRDSL	AGRIUM REDWATER SALES APN	28
31006	AIRLSL	AIR LIQUIDE SALES APN	28
31021	CLVPSL	CLOVERBAR POWER PLANT SALES APN	28
31023	DEGUSL	DEGUSSA CANADA INC. SALES APN	28
31025	DOWCSL	DOW CHEMICAL SALES APN	28
31038	GEONSL	GEON CANADA INC. SALES APN	28
31042	HARTSL	HEARTLAND UPGRADER SALES APN	28
31059	PAPSL	PETROCAN AIR PRODUCTS SALES APN	28
31064	RWCOSL	REDWATER COGEN SALES APN	28
31125	SFHSL	SCOTFORD HYDROGEN SALES APN	28
31069	SCOTSL	SCOTFORD UP EXP PHASE 1 SALES APN	28
31071	SHSCSL	SHELL SCOTFORD SALES APN	28
31072	SHUPL	SHELL UPGRADER MASTER SALES APN	28
31076	STYRSL	STYRENE PLANT SALES APN	28

Bulletin for illustration purposes only

NrG Highway Bulletin Format – Next Steps

- Review proposed bulletin format discussed today and provide feedback by September 12, 2018
 - Are we moving in the right direction?
 - Any future refinements you would like to see?
- Implement new format for bulletins issued after September 17, 2018

Share your thoughts and ideas regarding future improvements with your Commercial representatives

Daily Operating Plan – Modifications to Service Allowable Classification

Outage ID	Start	End	Capability/ Allowable (10 ³ m ³ /day)	Service Allowable Location/Area	Outage Description
13015505	AUG 20, 2018	AUG 31, 2018	287,000	Potential IT/FT Receipt Restriction USJR	Schrader Creek East and West - Compressor Station Maintenance
12926139	SEP 03, 2018	SEP 09, 2018	285,000	Potential IT/FT Receipt Restriction USJR	Woodenhouse A & B - Compressor Station Maintenance
13993439	SEP 04, 2018	SEP 06, 2018	284,000	Potential IT/FT Receipt Restriction USJR	Alces B #3- Compressor Station Maintenance

Current Classification	Modified Classification
'Potential IT Restriction'	'IT anticipated'
'Potential IT/FT Restriction'	'No impact to FT anticipated'
'Potential IT/FT Restriction'	'Potential impact to FT'
'Partial FT Restriction'	'Partial impact to FT'

Modifications will be reflected in the Daily Operating Plan published on September 10, 2018

Next Steps

- Review other existing communication tools (Customer Express, NrG Highway, etc.)
- Explore new communication tools (Interactive map to illustrate outages and area of impact, service allowable dashboard, etc.)
- Let us know what you think
 - Do you have other ideas for how we can continue to improve?
 - What other future enhancements would you like to see?

Share your thoughts and ideas regarding future improvements with your Commercial representatives



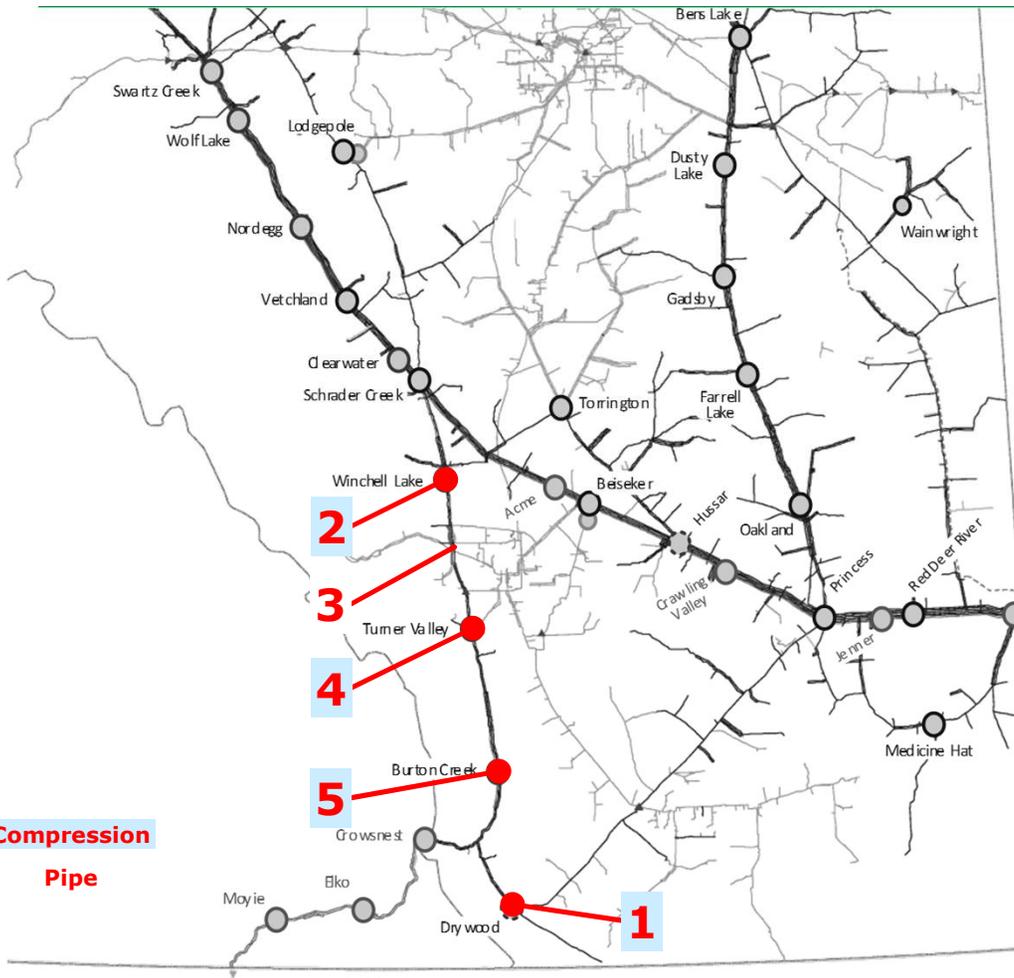
Questions?



Agenda

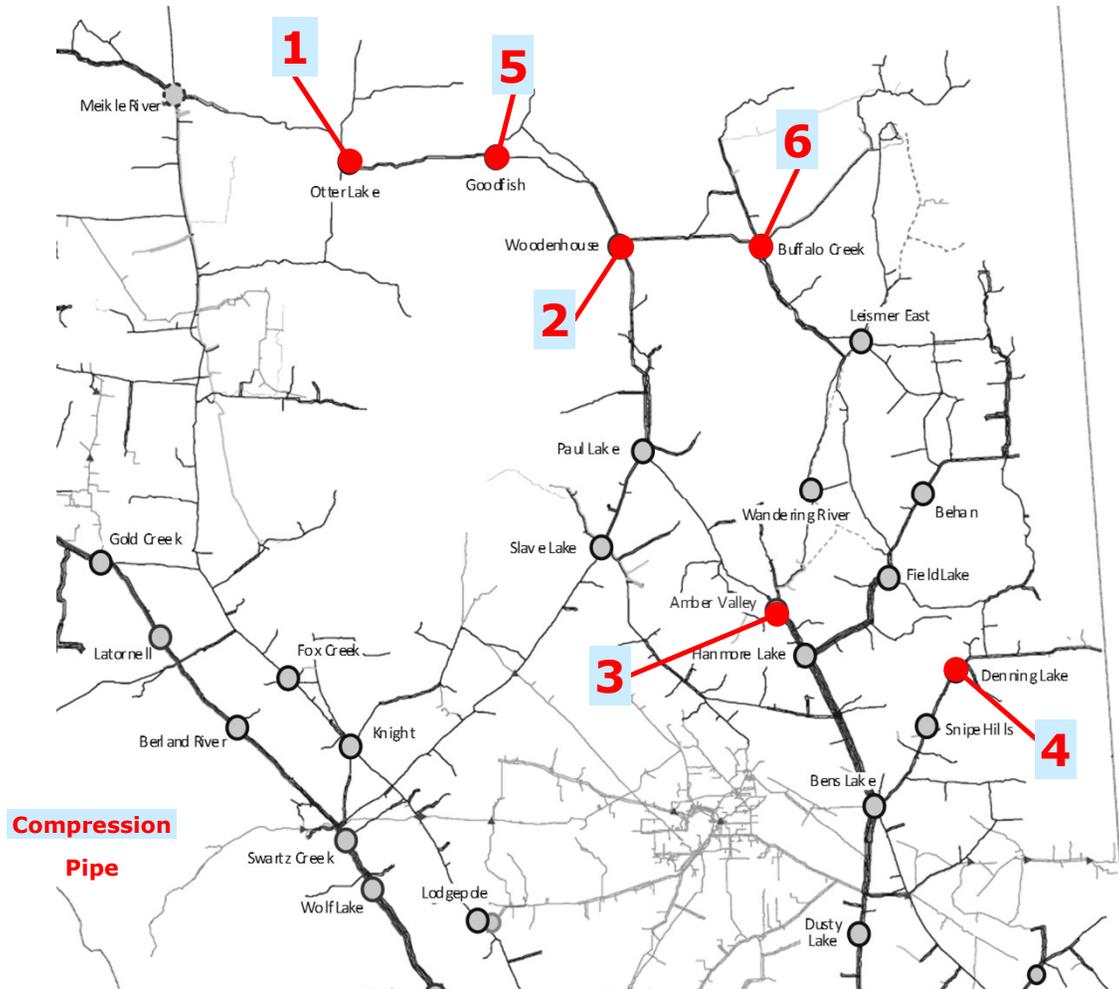
1. Overview of Organizational Changes in Commercial Operations
2. Changes to Outage Communications Tools
3. 2018 Operational Outlook Update/Review and Expansion Review
4. 2019 Operational Outlook Update/Review

NGTL Expansion Review – Western Gate Delivery Area (WGAT)



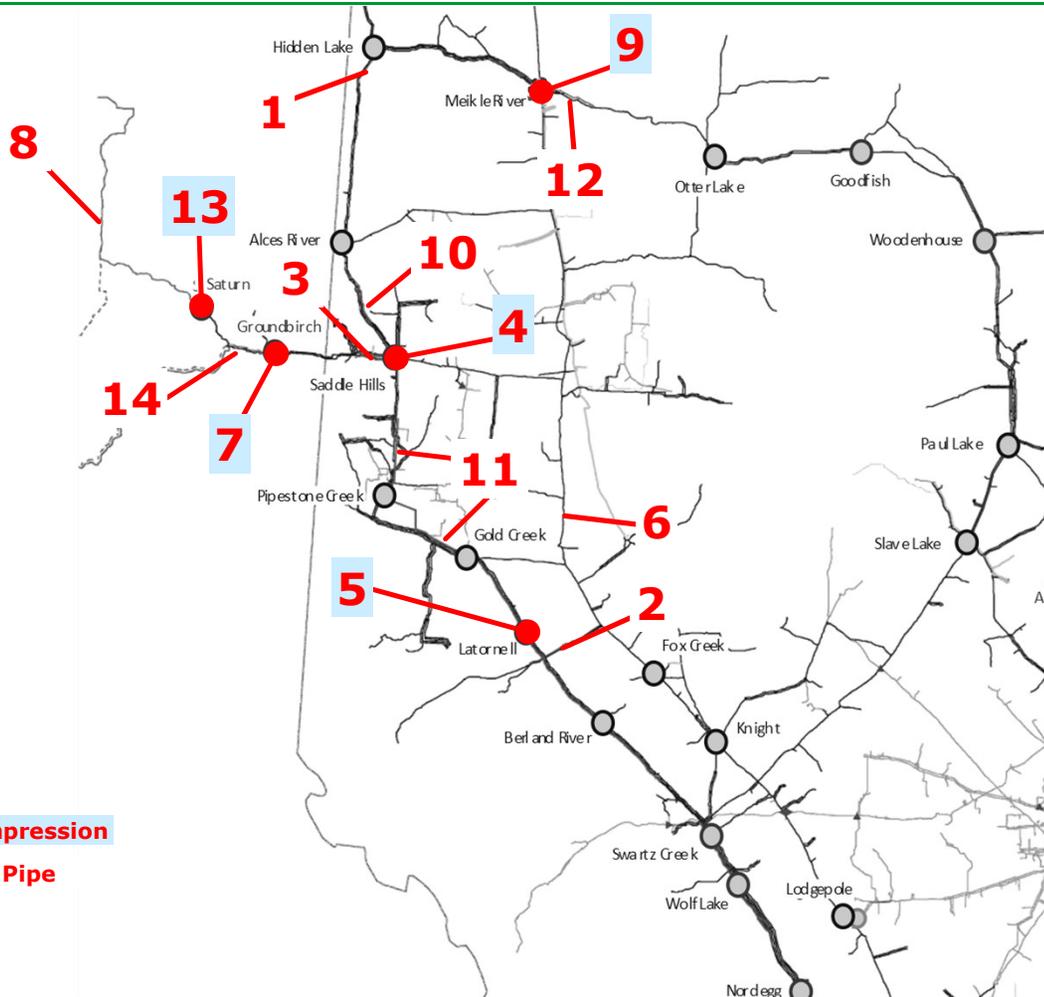
Facility	Planned In Service Date
1. Drywood Coolers	Oct 2018
2. Winchell Lake (30 MW Unit addition)	Nov 2019
3. NPS 42 Western Alberta System M/L Loop (22 km)	Jun 2020
4. Turner Valley (30 MW Unit addition)	Jun 2020
5. Burton Creek (30 MW Unit addition)	Jun 2020

NGTL Expansion Review – Eastern Gate Delivery Area (EGAT)



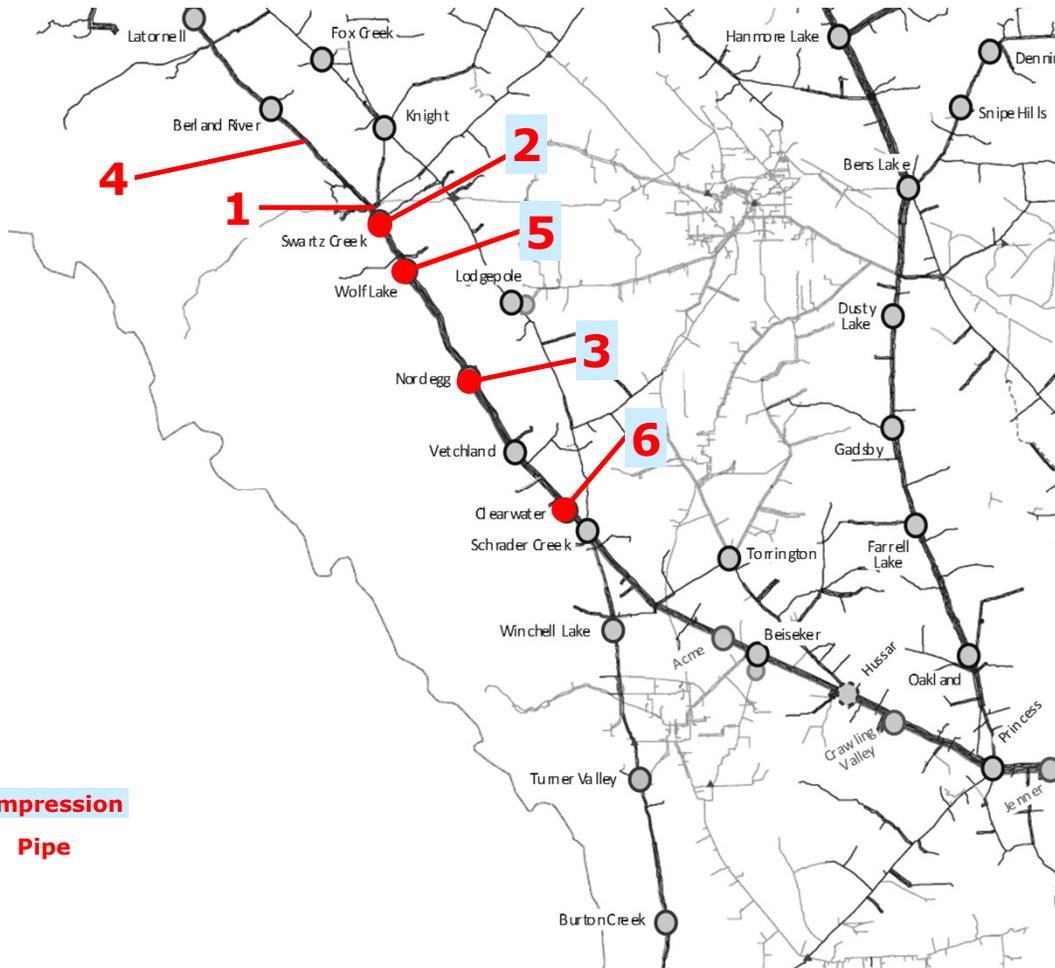
Facility	Planned In Service Date
1. Otter Lake (Wheel Change)	Oct 2018
2. Woodenhouse (30 MW unit addition)	Nov 2018
3. Amber Valley (15 MW unit addition)	Nov 2019
4. Denning Lake (Wheel Change)	Nov 2019
5. Goodfish (30 MW unit addition)	Nov 2020
6. Buffalo Creek (30 MW unit addition)	Nov 2020

NGTL Expansion Review – Upstream James River Area (USJR)



Facility	Planned In Service Date
1. NPS 36 Northwest M/L Loop (25 km)	Apr 2019
2. NPS 24 Smoky River Lateral Loop (24 km)	Apr 2019
3. NPS 36 Gordondale Lateral Loop 3 (25 km)	Jun 2019
4. Saddle Hills (30 MW unit addition)	Jun 2019
5. Latornell (30 MW unit addition)	Jun 2019
6. Clarkson Valley (Control valve addition)	Jun 2019
7. Groundbirch (2 x 15 MW unit)	Q3/2019
8. NPS 42 North Montney M/L (182 km)	Q3/2019
9. Meikle River (piping modifications)	Nov 2019
10. NPS 36 Northwest M/L Loop 2 (28 km)	Nov 2019
11. NPS 48 Grande Prairie M/L Loop 2 (13 km) NPS 48 Grande Prairie M/L Loop 3 (24 km)	Apr 2020
12. NPS 48 North Central Corridor Loop (32 km)	Apr 2020
13. Saturn (15 MW unit)	Apr 2020
14. NPS 42 Groundbirch M/L Loop (33 km)	Nov 2020

NGTL Expansion Review – Upstream James River Area (USJR) cont'd

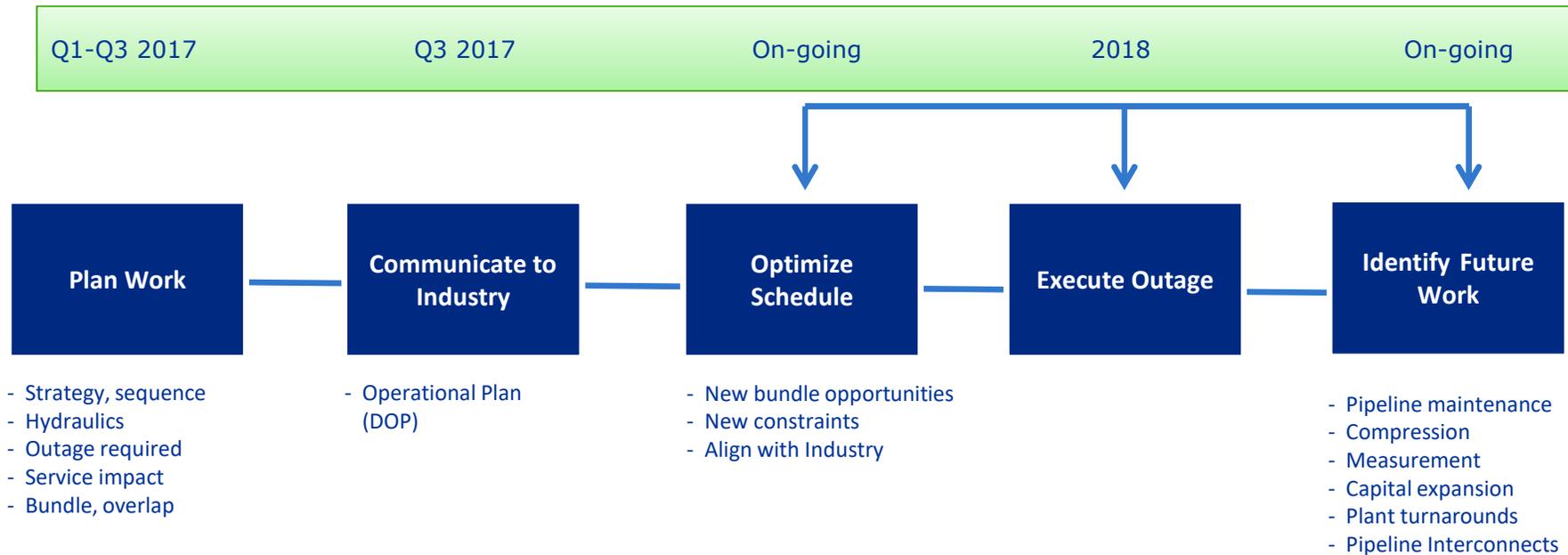


Facility	Planned In Service Date
1. Edson (Control valve addition)	Apr 2019
2. Swartz Creek (30 MW unit addition)	Jun 2019
3. Nordegg (30 MW unit addition)	Jun 2019
4. NPS 48 Grande Prairie M/L Loop 2 (33 km)	Nov 2019
5. Wolf Lake (30 MW unit addition)	Apr 2020
6. Clearwater (30 MW unit addition)	Apr 2020

**Compression
Pipe**

Outage Planning Process

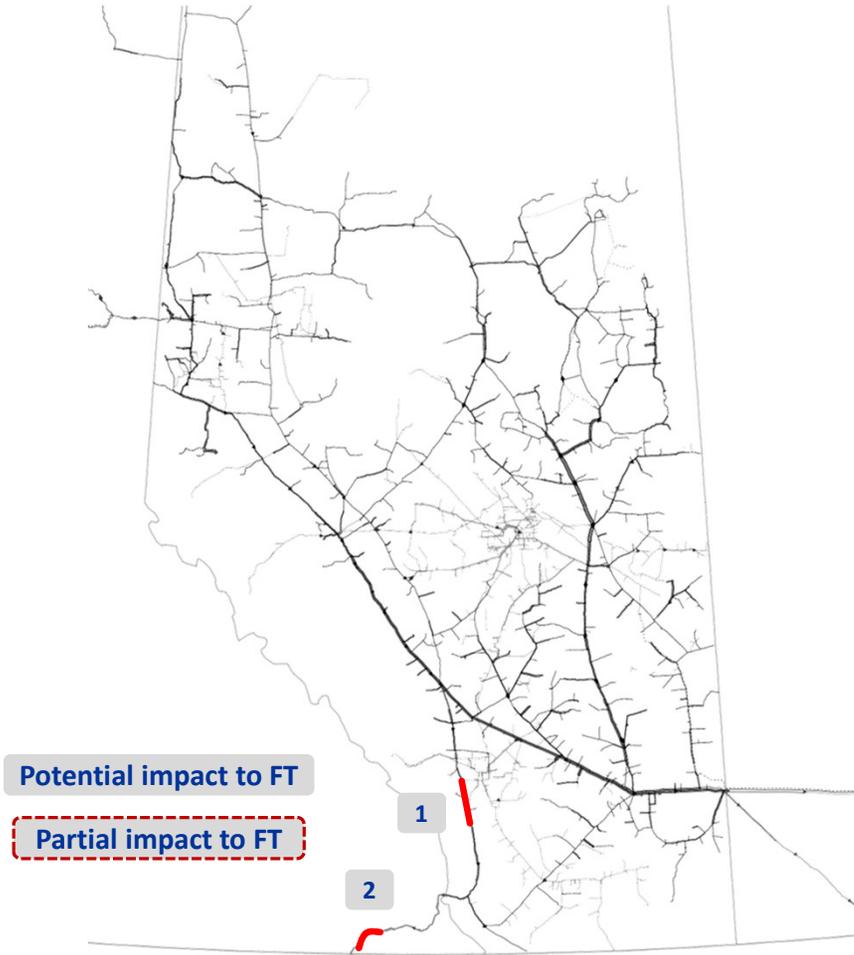
2018 Program Timeline:



Currently in execution phase with continued focus on integrating all work, bundling activities, and optimizing overall program.

2018 Pipe Maintenance – Outage Highlights

Location: Western Gate Delivery Area and Foothills BC

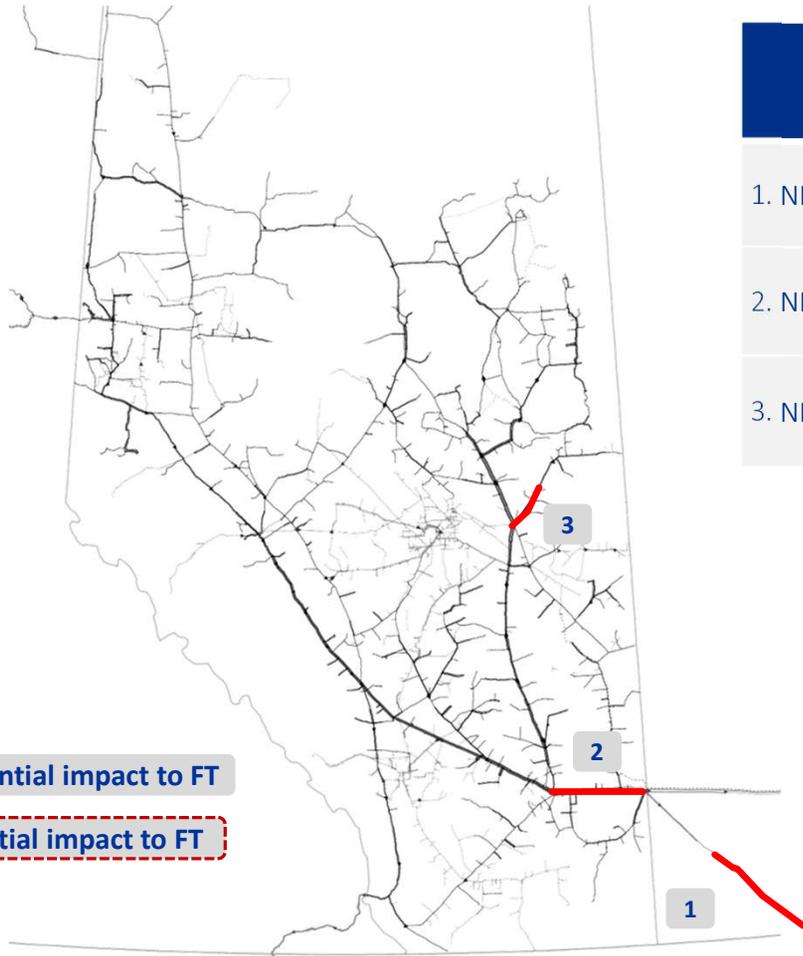


Facility Outage	Start Date	Duration (days)	Area	Capability Loss TJ/day
1. NPS 36 Foothills M/L Zone 8	Oct 22	12	FHBC	400
2. NPS 42 Western Alberta System M/L Loop	Nov 15	7	WGAT	200

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact.

2018 Pipe Maintenance – Outage Highlights

Location: Eastern Gate Delivery Area and Foothills Sask

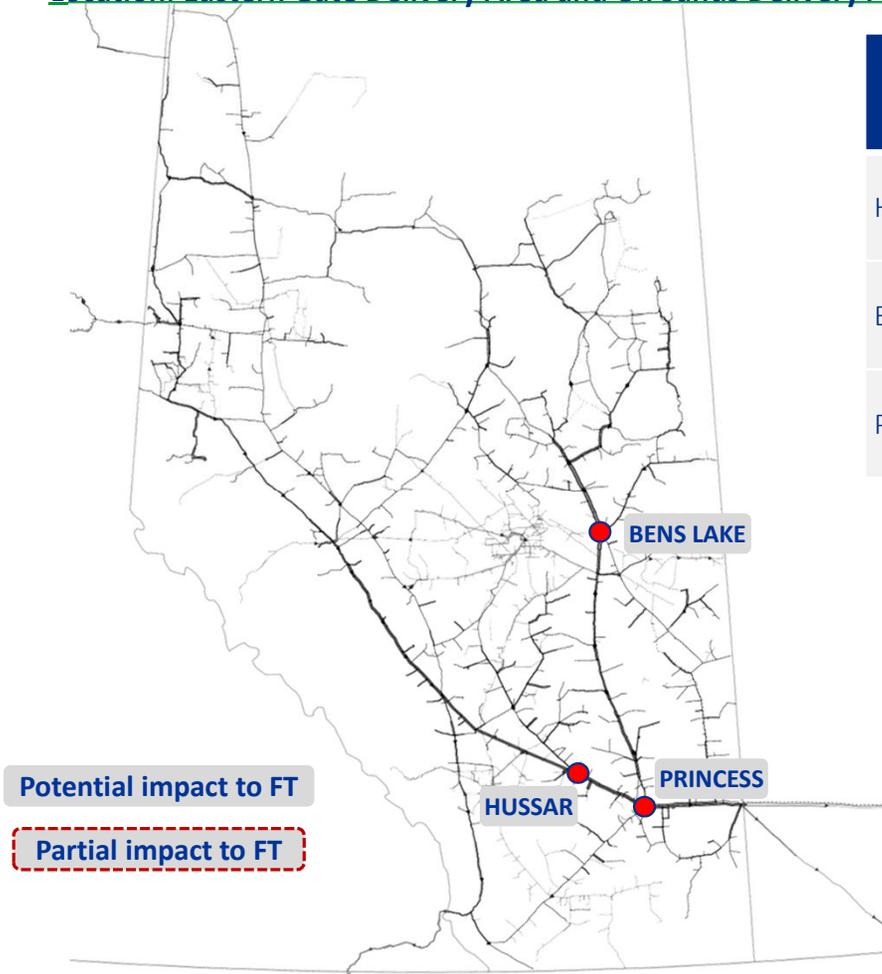


Facility Outage	Start Date	Duration (days)	Area	Capability Loss TJ/day
1. NPS 42 Foothills P/L Zone 9	Sep 18	3	FHSK	300
2. NPS 34 Eastern Alberta System M/L	Oct 11	11	EGAT	100
3. NPS 12 Saddle Lake Lateral	Oct 16	15	OSDA	100

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact.

2018 Compressor Maintenance – Outage Highlights

Location: Eastern Gate Delivery Area and Oil Sands Delivery Area

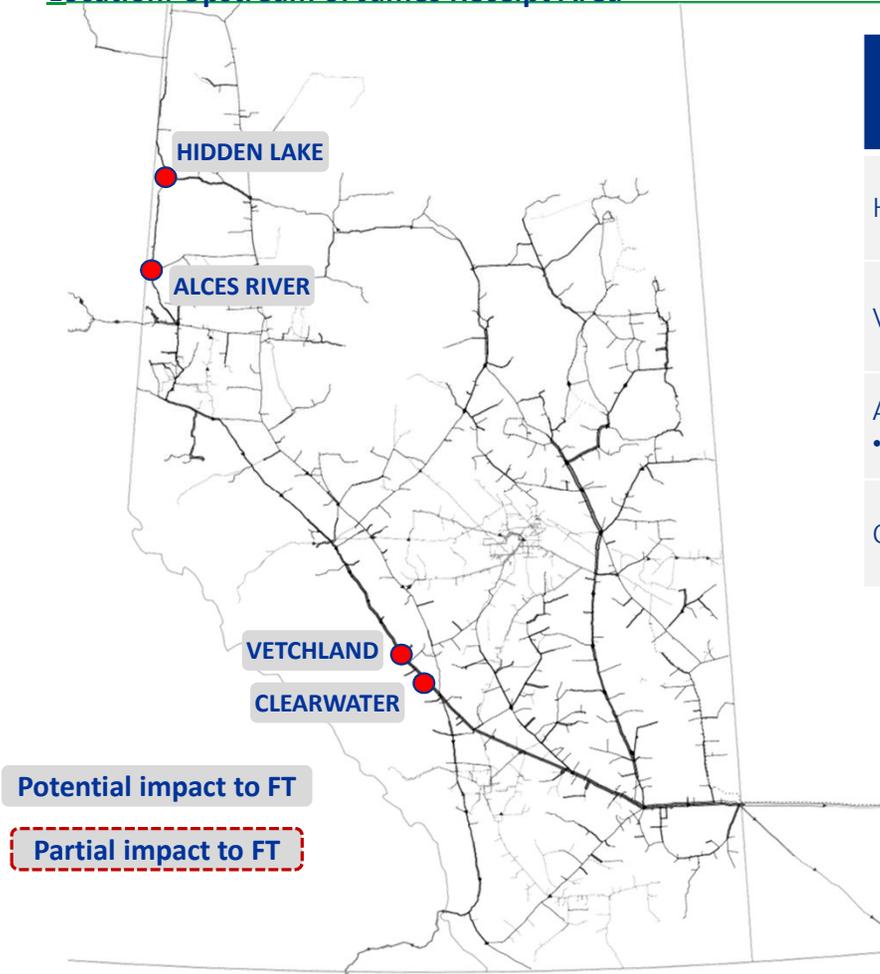


Facility Outage	Start Date	Duration (days)	Area	Capability Loss TJ/day
Hussar A C/S	Sep 10	5	EGAT	250
Bens Lake C/S	Oct 1	12	OSDA	200
Princess C/S	Oct 22	11	EGAT	250

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact.

2018 Compressor Maintenance – Outage Highlights

Location: Upstream of James Receipt Area

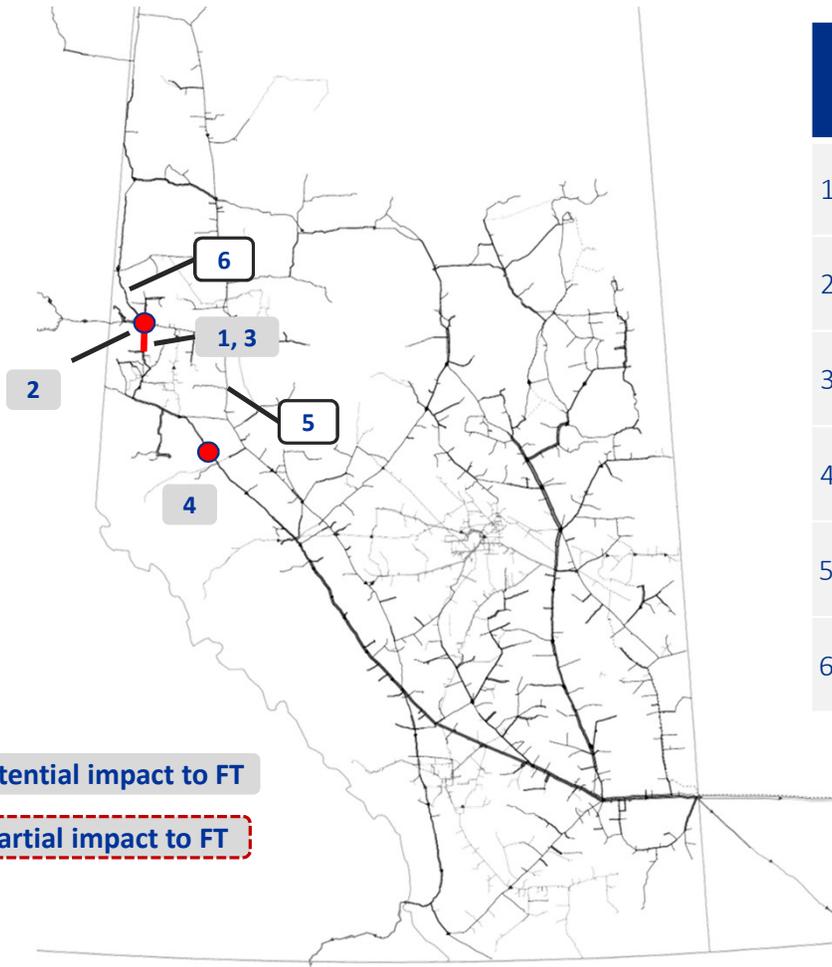


Facility Outage	Start Date	Duration (days)	Area	Capability Loss TJ/day
Hidden Lake North C/S	Oct 1	9	USJR	250
Vetchland C/S	Oct 9	4	USJR	400
Alces River unit 3 • Meikle River unit 5	Oct 15	10	USJR	400
Clearwater unit 5	Oct 28	6	USJR	200

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact.

2018 Expansion Program – Outage Highlights

Location: Upstream James River Receipt Area



Facility Outage	Start Date	Duration (days)	Area	Capability Loss TJ/day
1. NPS 36 Grande Prairie M/L Loop #2	Sep 9	10	USJR	600
2. Saddle Hills C/S	Nov 7	7	USJR	500
3. NPS 30 Grande Prairie M/L Loop	Nov 20	9	USJR	150
4. Latornell C/S	Nov 26	8	USJR	300
5. Clarkson Valley CV	Q4 2018 - Q1 2019		USJR	No outage
6. NPS 36 NWML Loop 2	Q4 2018 - Q1 2019		USJR	No outage

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact.



Questions?

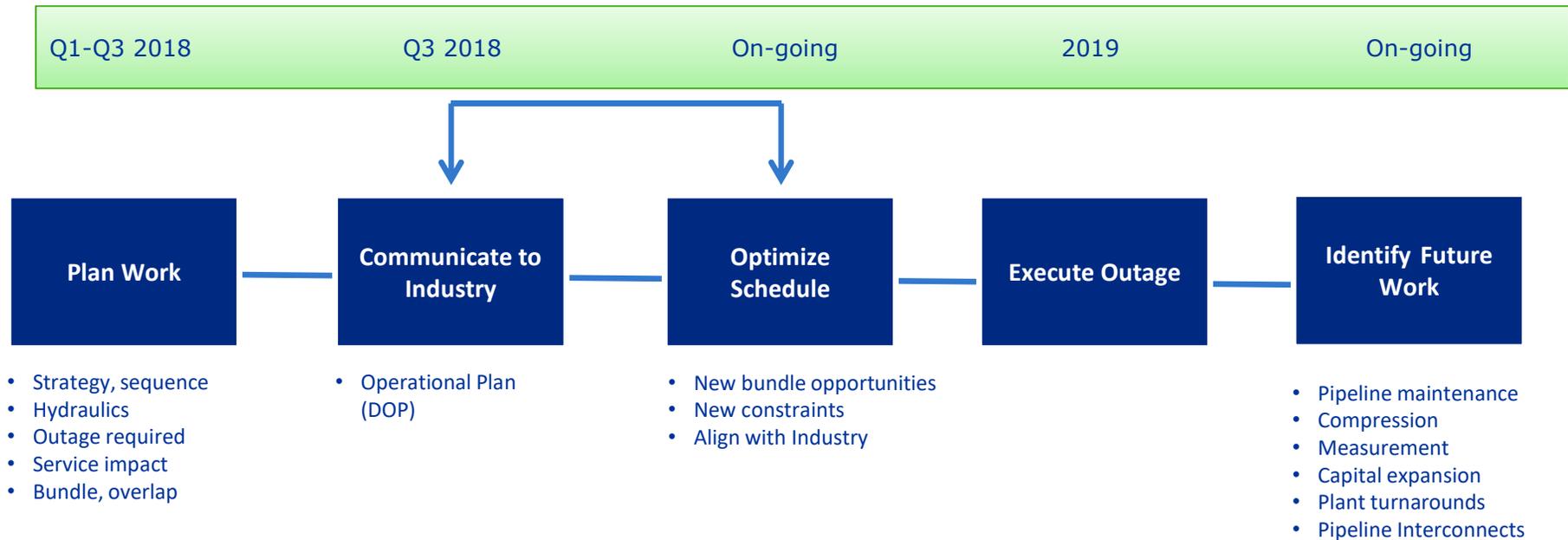


Agenda

1. Overview of Organizational Changes in Commercial Operations
2. Changes to Outage Communications Tools
3. 2018 Operational Outlook Update/Review and Expansion Review
4. 2019 Operational Outlook Update/Review

Outage Planning Process

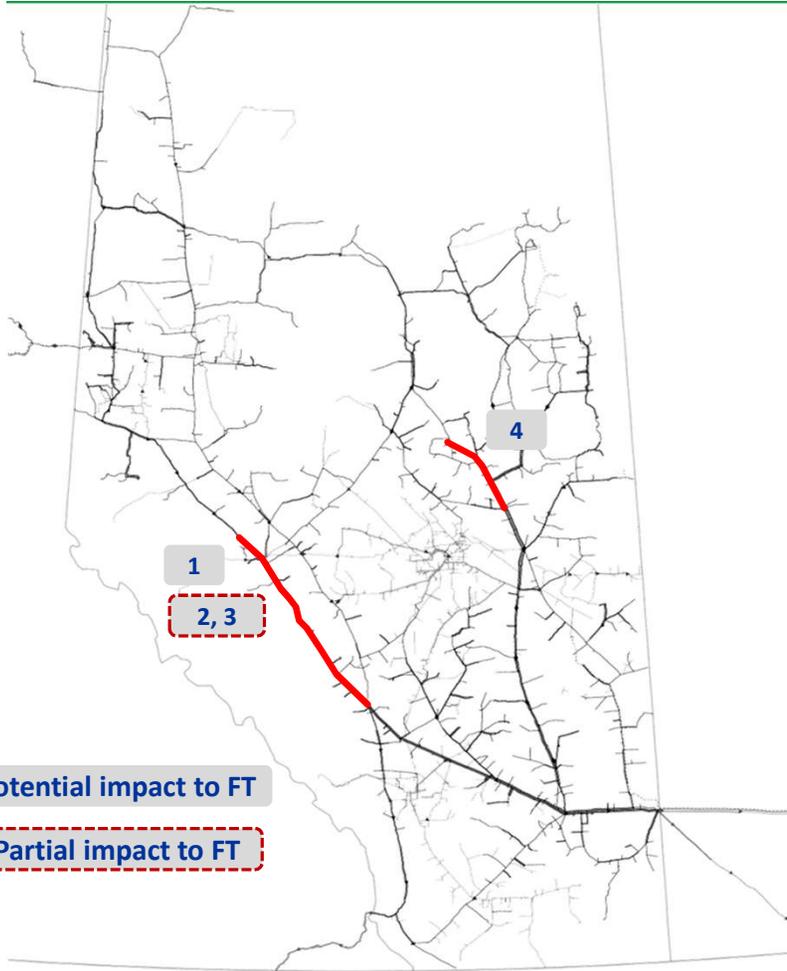
2019 Program Timeline:



Currently in planning phase with focus on integrating all work, bundling activities, and optimizing overall program

2019 Pipe Maintenance – Outage Highlights

Location: Upstream James River Receipt Area

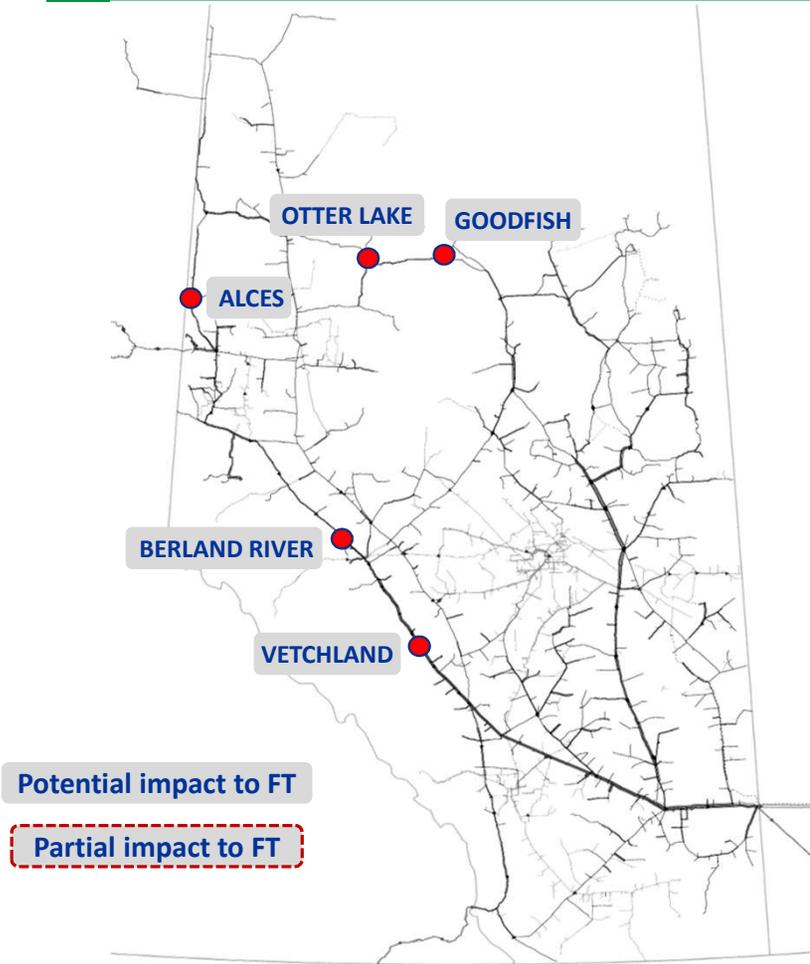


Facility Outage	Outage Timing	Capability Loss TJ/day
1. NPS 42 Edson Mainline Loop 2 <ul style="list-style-type: none"> • Gold Creek C/S • Gold Creek Unit B C/S 	Apr 23-May 2, 2019	500
2. NPS 48 Edson Mainline Loop 3 <ul style="list-style-type: none"> • Latornell C/S • Princess C/S • NPS 36 Gordondale Lateral Loop 3 	May 6-16, 2019	2100
3. NPS 42 Edson Mainline Loop <ul style="list-style-type: none"> • Wolf Lake C/S • NPS 30 Grande Prairie Mainline Loop 	July 3-12, 2019	900
4. NPS 30/42 Paul Lake & Flat Lake Lateral Loop 3 & 4 <ul style="list-style-type: none"> • Paul Lake B C/S • Paul Lake A & Paul Lake B C/S 	Aug 13-19, 2019	450

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact

2019 Compression Maintenance – Outage Highlights

Location: Upstream James River Receipt Area

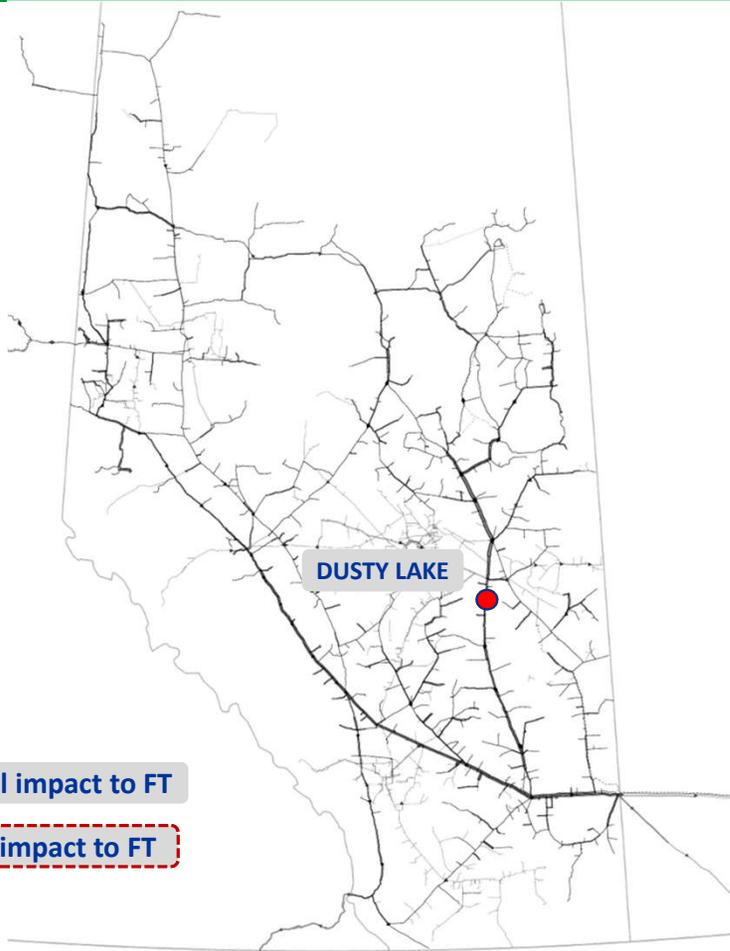


Facility Outage	Outage Timing	Capability Loss TJ/day
Alces River C/S	Mar 4-8, 2019	500
Berland River C/S	Jun 17-19, 2019	500
Goodfish C/S	Jun 24-27, 2019	750
Vetchland C/S	Aug 21-Sep 10, 2019	300
Otter Lake Unit C/S	Sep 3-6, 2019	650
Alces River Unit 2 C/S	Oct 15-17, 2019	400

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact

2019 Compression Program – Outage Highlights

Location: North East Delivery Area

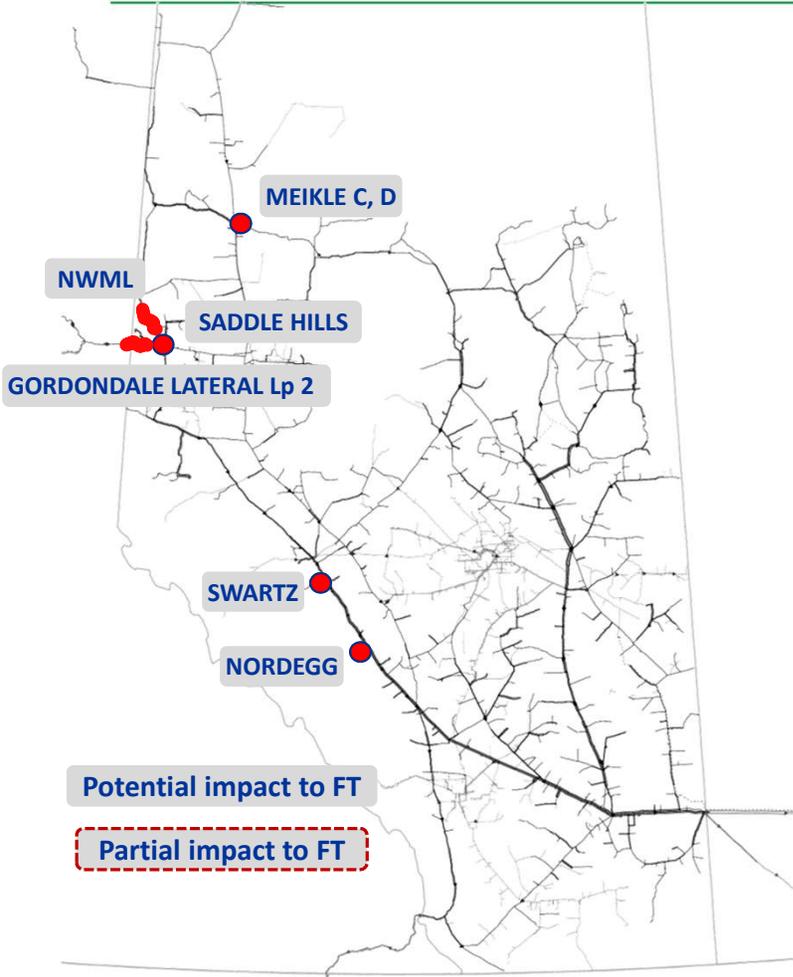


Facility Outage	Outage Timing	Capability Loss TJ/day
Dusty Lake C/S <ul style="list-style-type: none">Gadsby C/SBeiseker C/S	Apr 15-18, 2019	800

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact

2019 Capital Expansion – Outage Highlights

Location: Upstream James River Receipt Area

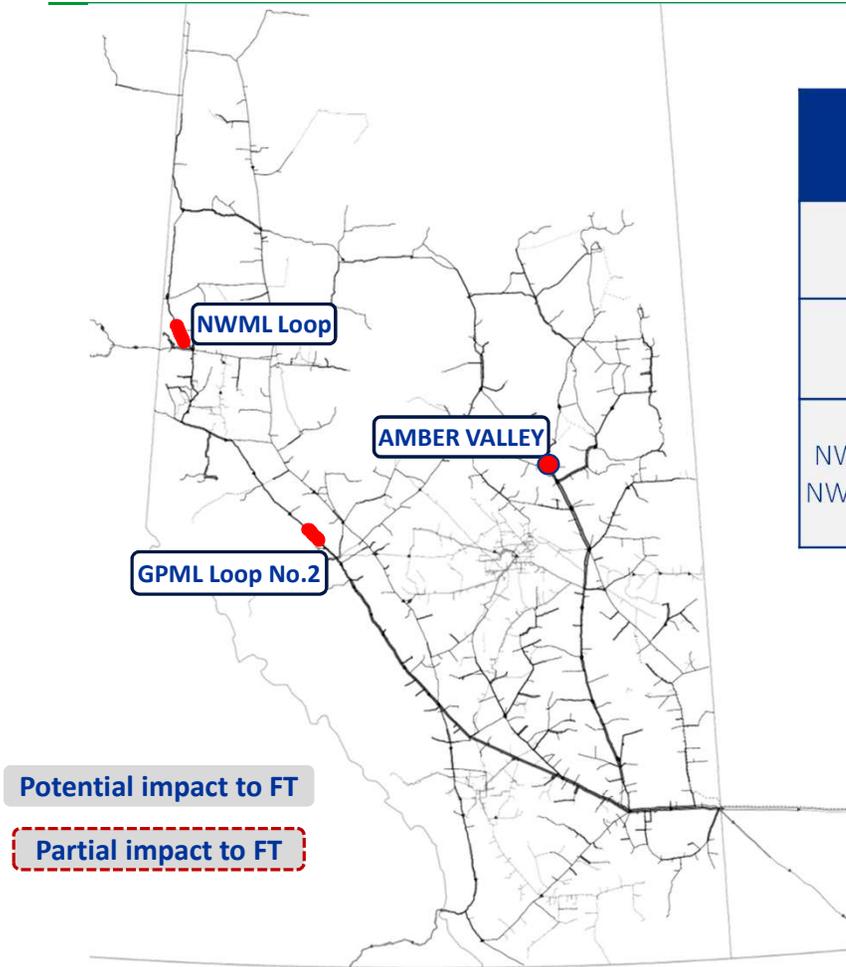


Expansion Facility Description	Outage Requirement	Outage Timing	Capability Loss TJ/day
Saddle Hills, new unit	NPS 36 NWML	Jan 15-23, 2019	200
Nordegg, new unit + cooler NPS 36 Gordondale Lat Lp 3	Nordegg CS NPS 42 Gordondale Lat Lp 2	Jan 29-Feb 11, 2019	600
Swartz Creek, new unit + cooler	Swartz Creek CS	Feb 20-28, 2019	400
Meikle River C, D CS Modifications	Meikle C3 CS	Jun 17-Jul 6, 2019	200
	Meikle B & C4 CS	Jul 8-27, 2019	250
	Meikle D CS	Jul 29-Aug 17, 2019	400
	Meikle C3 & C4 CS	Aug 19-31, 2019	350

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact

2019 Capital Expansion – Outage Highlights (con't)

Location: Upstream James River Receipt Area

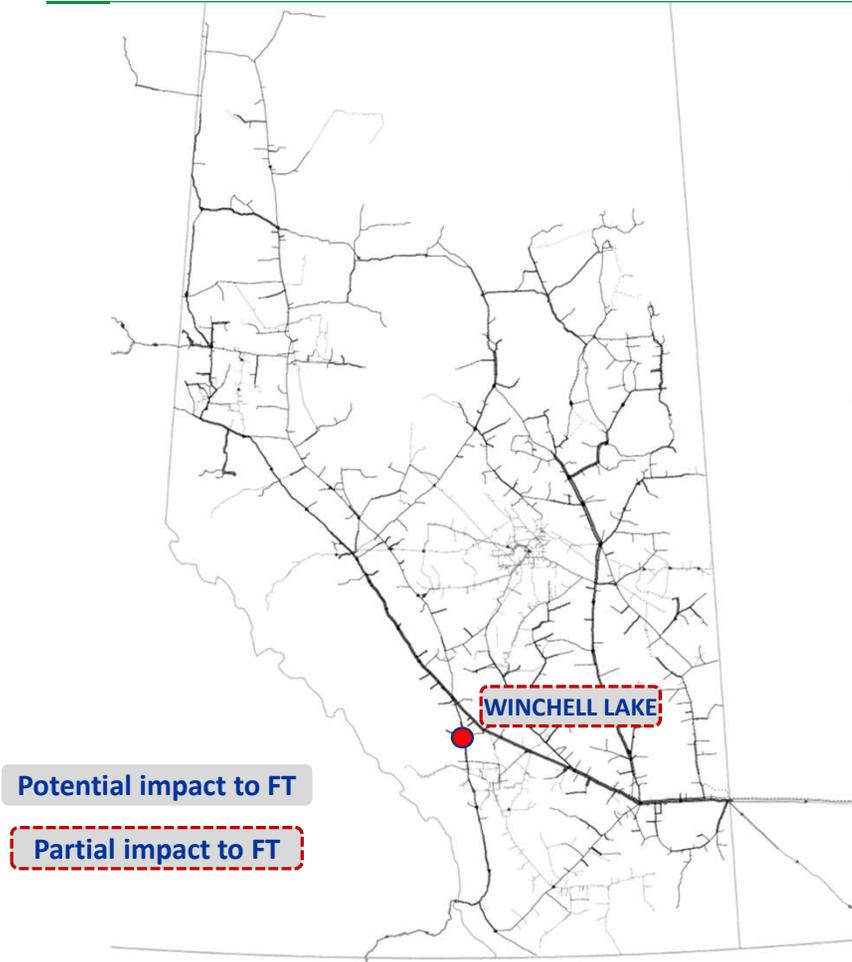


Expansion Facility Description	Outage Requirement	Outage Timing	Capability Loss TJ/day
Amber Valley, new unit	No outage	Q1-Q3 2019	N/A
NPS 48 GPML Loop No.2 McLeod River North	No outage	Q1-Q3 2019	N/A
NWML Loop – Bear Canyon North NWML Loop – Peace River Crossing	No outage	Q1-Q3 2019	N/A

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact

2019 Capital Expansion – Outage Highlights

Location: Western Gate Delivery Area



Expansion Facility Description	Outage Requirement	Outage Timing	Capability Loss TJ/day
Winchell Lake, new unit	Winchell Lake CS	Jul 8-21, 2019	400

Outage date, duration, and impact may be subject to change. Refer to DOP for all planned outages with potential service impact



Questions?



NGTL and Foothills Contact Information

Inquiries	Availability	Team	Functions	Contact Information
General assistance	7am-10 pm MT, 7 day/week	TransCanada Call Centre	Customer service for nominations, allocations, and measurement	403-920-PIPE (7473) or toll-free at 1-877-920-PIPE (7473); and nominations@transcanada.com
Contracts and Billing	Business hours	Contracts	Support for contracts	NGTL: ngtl_contracting@transcanada.com
		Billing	Support for billing	FH: ab_ft_openseason@transcanada.com ngtl_billing@transcanada.com
Operations planning and outage coordination	Business hours	Operations Planning	New facility integration, operating plan strategies, outage planning and coordination, linepack management, connected pipeline agreements, event/emergency management	http://www.transcanada.com/customerexpress/2880.html

NGTL and Foothills Contact Information

Inquiries	Availability	Team	Functions	Contact Information
Sales and service	Business hours	Customer Account Managers	Service inquiries and new service requests	NGTL: http://www.tccustomerexpress.com/875.html FH: Ashley Stowkowy: 920-5828 Andrea Watters: 920-7956
Multi-stakeholder interests	Business hours	Commercial Collaboration	Multi-stakeholder initiatives, customer meetings, and the Tolls, Tariff, Facilities and Procedures (TTFP) committee	http://www.tccustomerexpress.com/872.html
All other contacts		TransCanada Natural Gas Pipelines		http://www.tccustomerexpress.com/852.html