

SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

July 2017

<http://www.tccustomerexpress.com/2885.html>

Published date:

September 15th, 2017

Highlights This Month:

- No new highlights this month

NOVA Gas Transmission Ltd.

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Utilization reports are posted approximately six weeks after the end of the reported month.

If you have any questions on the content of this report, contact Winston Cao at (403) 920-5315 or winston_cao@transcanada.com.

FIRM TRANSPORTATION SERVICE¹ CONTRACT UTILIZATION³

By NGTL Pipeline Segments
July 2017

Segment	Contract	Delivery		Receipt	
		Utilization	Jul CD (TJ/d)	Utilization	Jul CD (MMcf/d)
UPRM	FT	0%	0.0	82%	84
	FT + IT ²	0%		84%	
PRLL	FT	36%	32.4	80%	93
	FT + IT	36%		82%	
NWML	FT	70%	6.9	83%	358
	FT + IT	71%		84%	
GRDL	FT	26%	8.9	83%	2,257
	FT + IT	224%		83%	
WRSY	FT	0%	0.0	84%	25
	FT + IT	0%		93%	
WAEX	FT	25%	7.3	80%	791
	FT + IT	84%		81%	
JUDY	FT	37%	20.2	85%	58
	FT + IT	42%		89%	
GPML	FT	28%	161.5	84%	4,052
	FT + IT	53%		85%	
CENT	FT	0%	0.0	88%	1,733
	FT + IT	0%		91%	
LPOL	FT	40%	70.3	85%	880
	FT + IT	43%		89%	
WGAT	FT	72%	3,816.6	93%	268
	FT + IT	76%		104%	
ALEG	FT	35%	384.8	95%	721
	FT + IT	36%		110%	
SLAT	FT	13%	190.7	83%	197
	FT + IT	13%		108%	
MLAT	FT	95%	210.3	79%	174
	FT + IT	99%		99%	
BLEG	FT	23%	131.6	89%	537
	FT + IT	27%		96%	
EGAT	FT	99%	3,686.4	68%	30
	FT + IT	111%		83%	
MRTN	FT	20%	23.5	82%	46
	FT + IT	20%		120%	
LIEG	FT	67%	1,855.5	52%	29
	FT + IT	68%		122%	
KIRB	FT	78%	1,585.7	76%	41
	FT + IT	79%		92%	
SMHI	FT	34%	12.1	80%	15
	FT + IT	34%		206%	
REDL	FT	7%	19.0	45%	21
	FT + IT	8%		153%	
COLD	FT	47%	172.0	41%	17
	FT + IT	60%		106%	
EDM	FT	35%	1,886.7	89%	34
	FT + IT	35%		143%	
NLAT	FT	10%	14.8	98%	110
	FT + IT	10%		146%	
WAIN	FT	3%	0.4	86%	5
	FT + IT	3%		176%	
ELAT	FT	73%	294.2	92%	104
	FT + IT	73%		123%	
TOTAL SYSTEM	FT	71%	14,591.8	85%	12,679
	FT + IT	76%		90%	

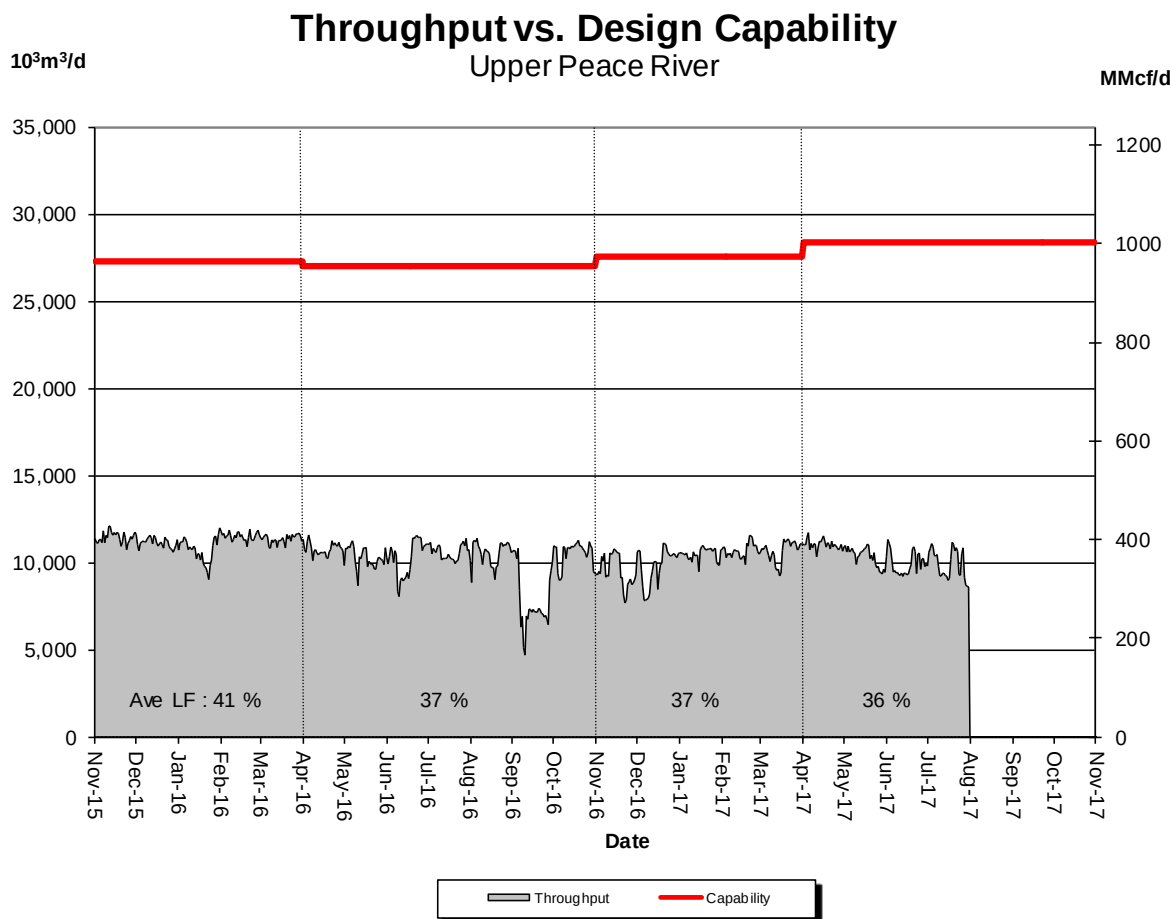
*NOTE:

1. FT includes all receipt and delivery Firm Transportation Services.

2. IT includes receipt and delivery Interruptible Services.

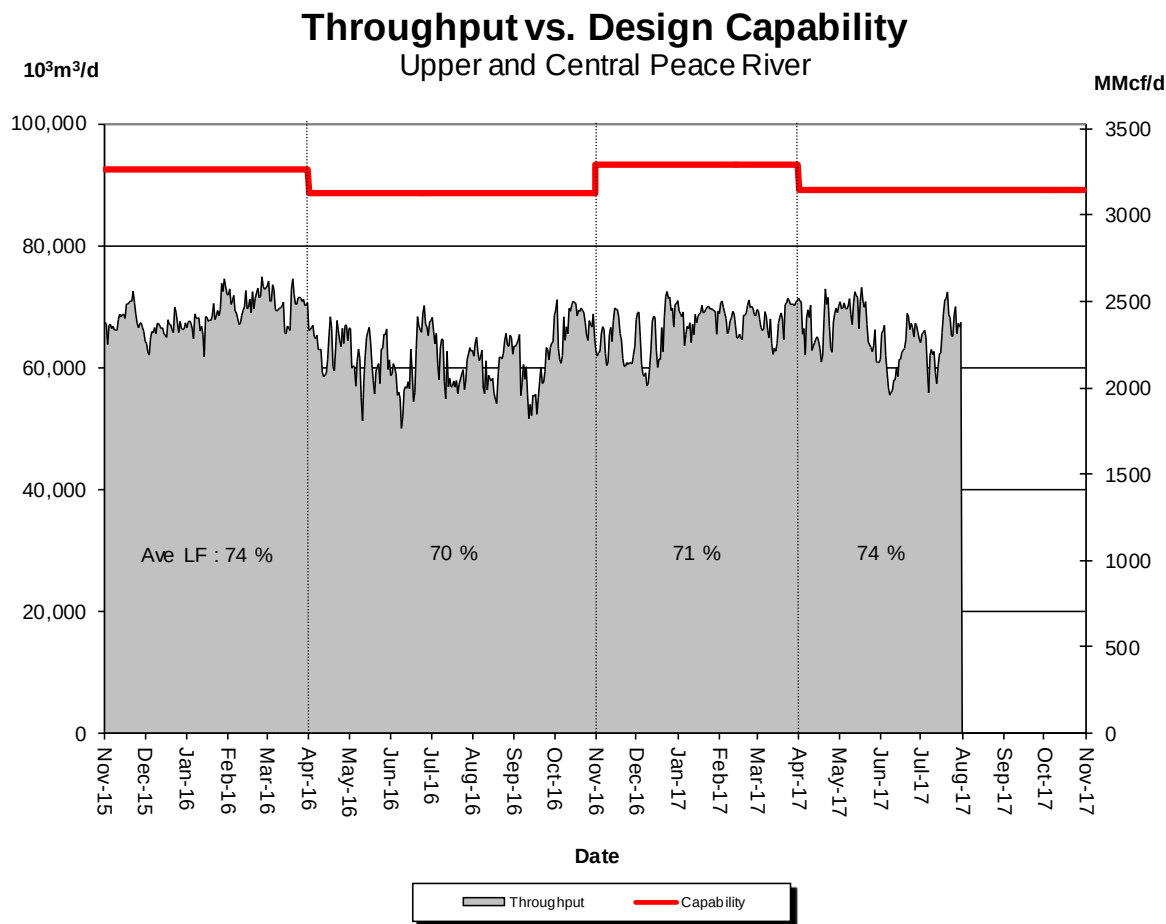
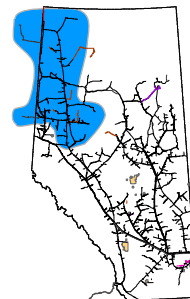
3. Utilization data is based on billed monthly volumes. Percent utilization calculated as FT and FT + IT billed volumes divided by applicable receipt or delivery Contract level.

DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	39%	39%	39%	37%	35%	35%

DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER

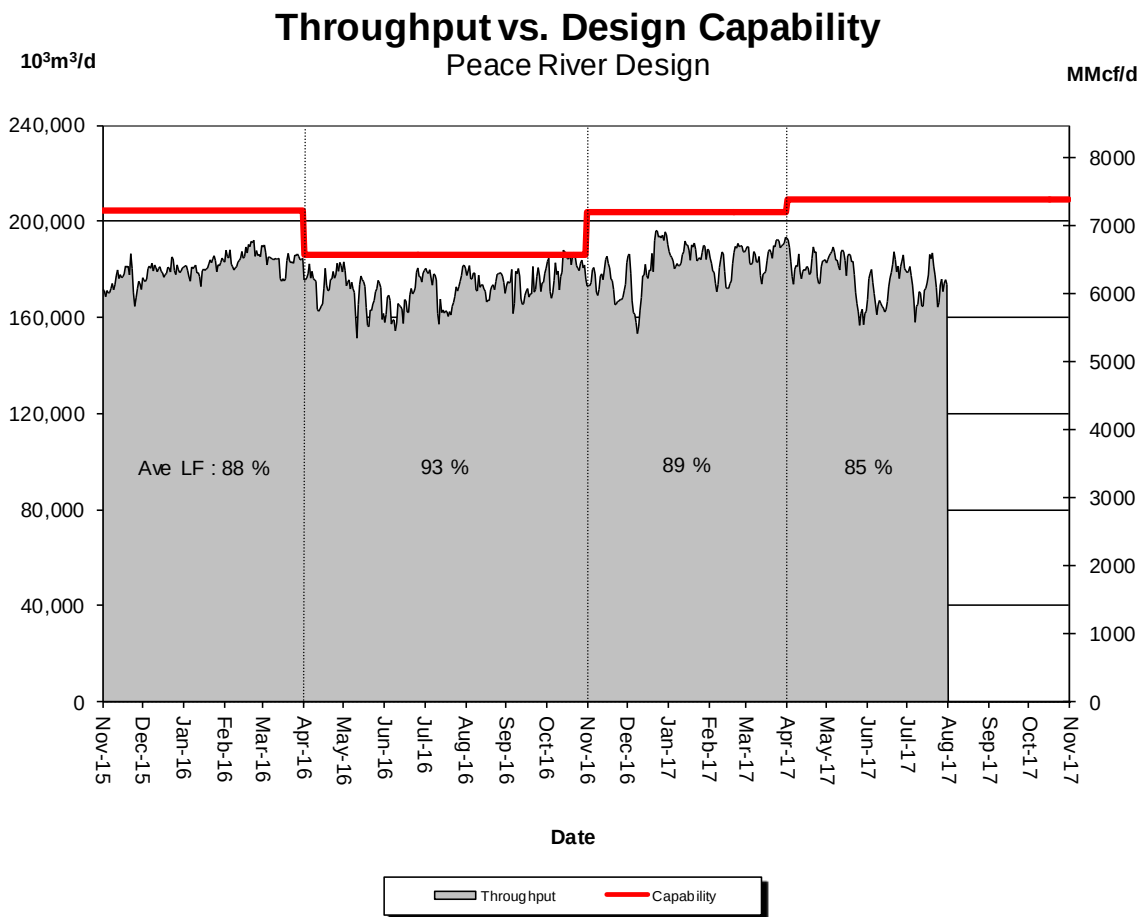
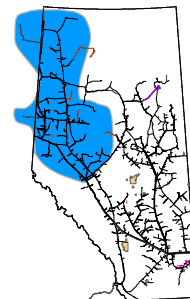


% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	73%	73%	75%	76%	70%	73%

DESIGN CAPABILITY UTILIZATION

PEACE RIVER DESIGN

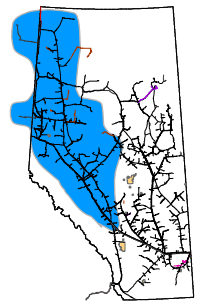
(Upper, Central and Lower Peace River)



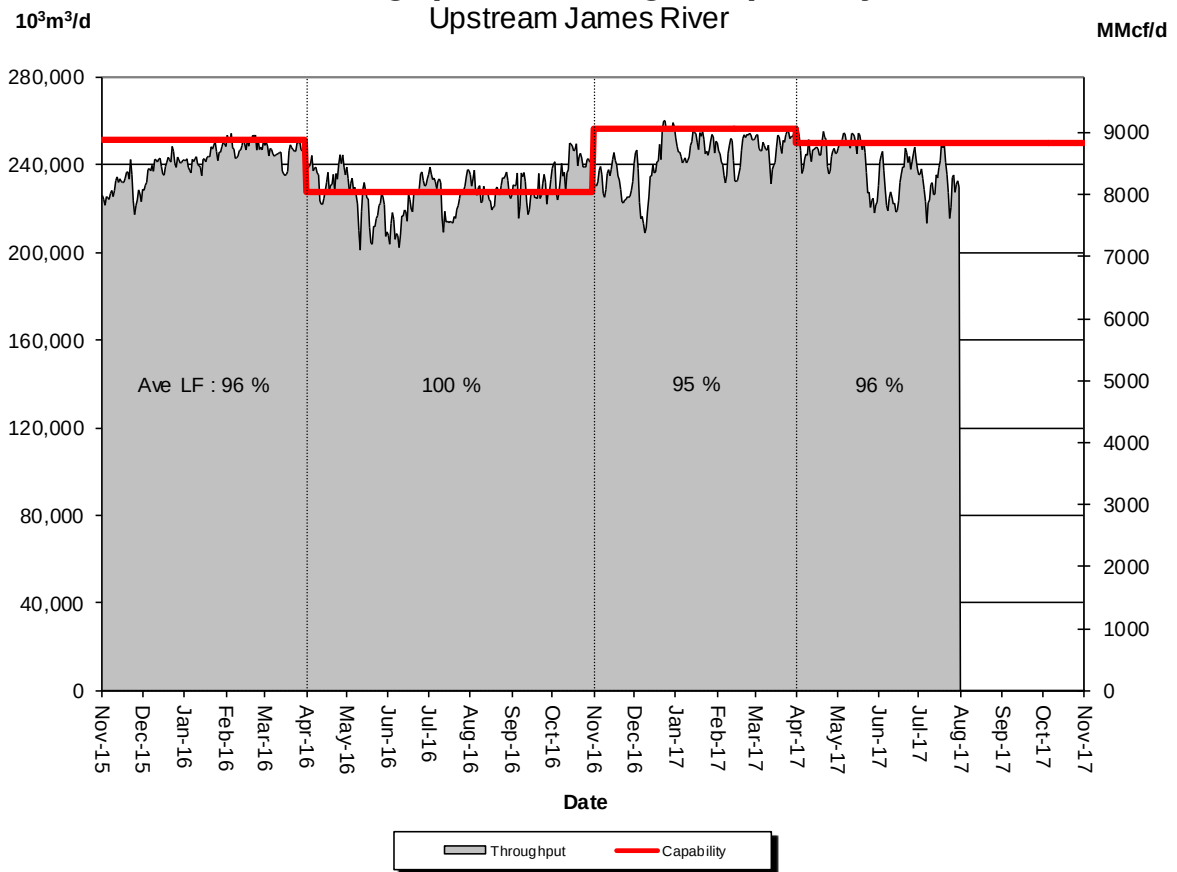
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	89%	91%	87%	85%	83%	83%

DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)

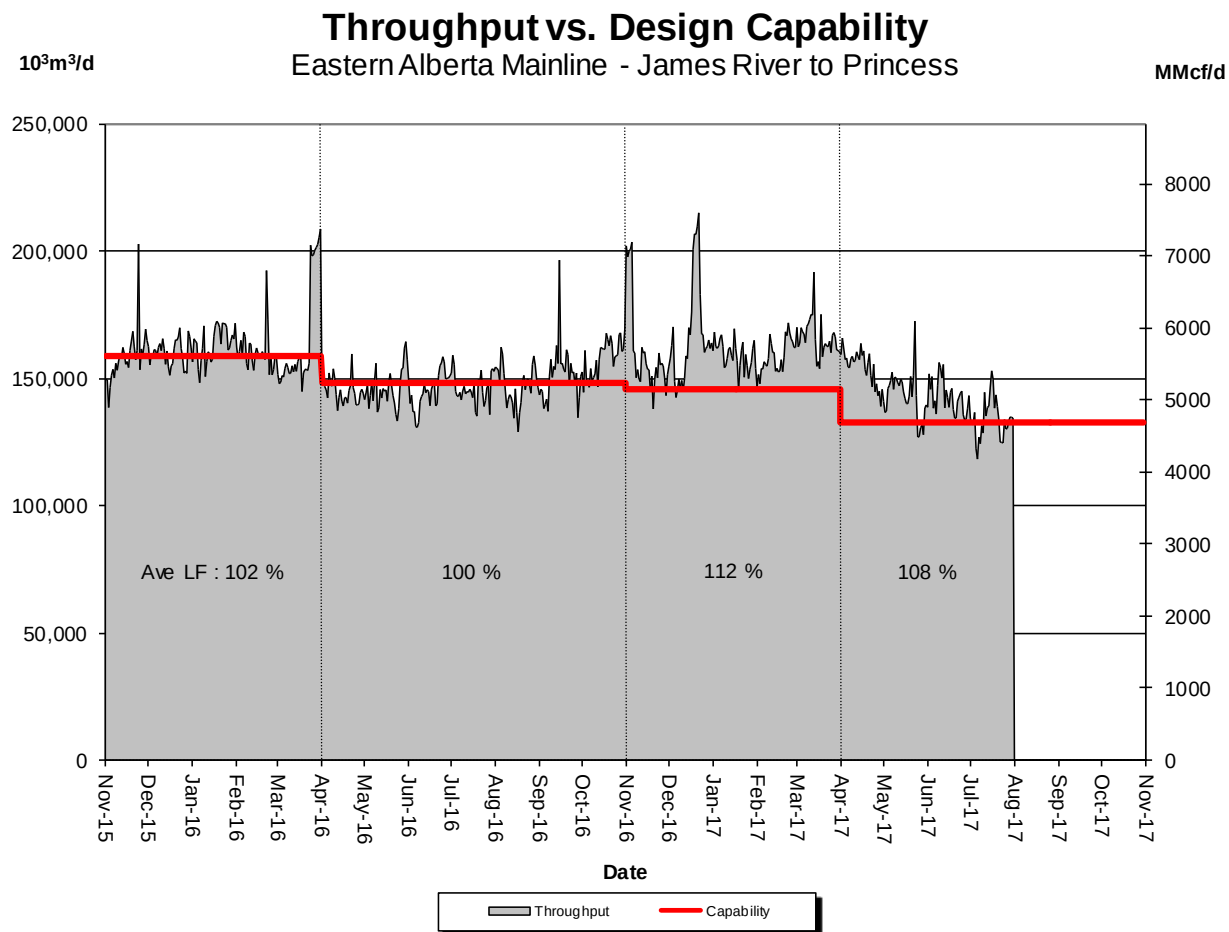
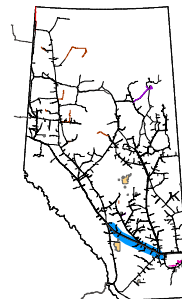


Throughput vs. Design Capability



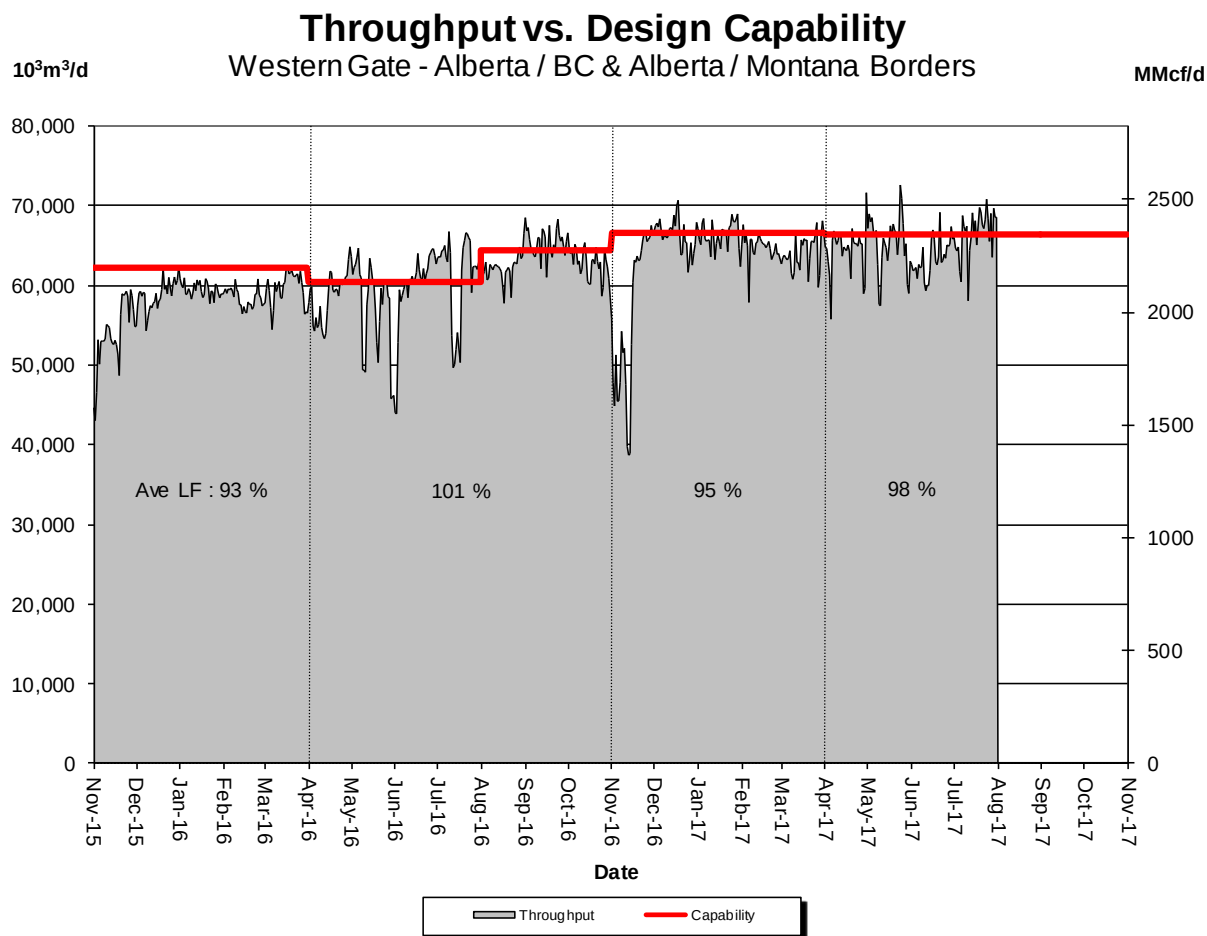
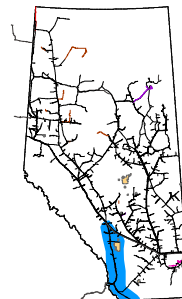
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	95%	97%	98%	97%	94%	93%

DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (James River to Princess)



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	109%	114%	116%	108%	108%	101%

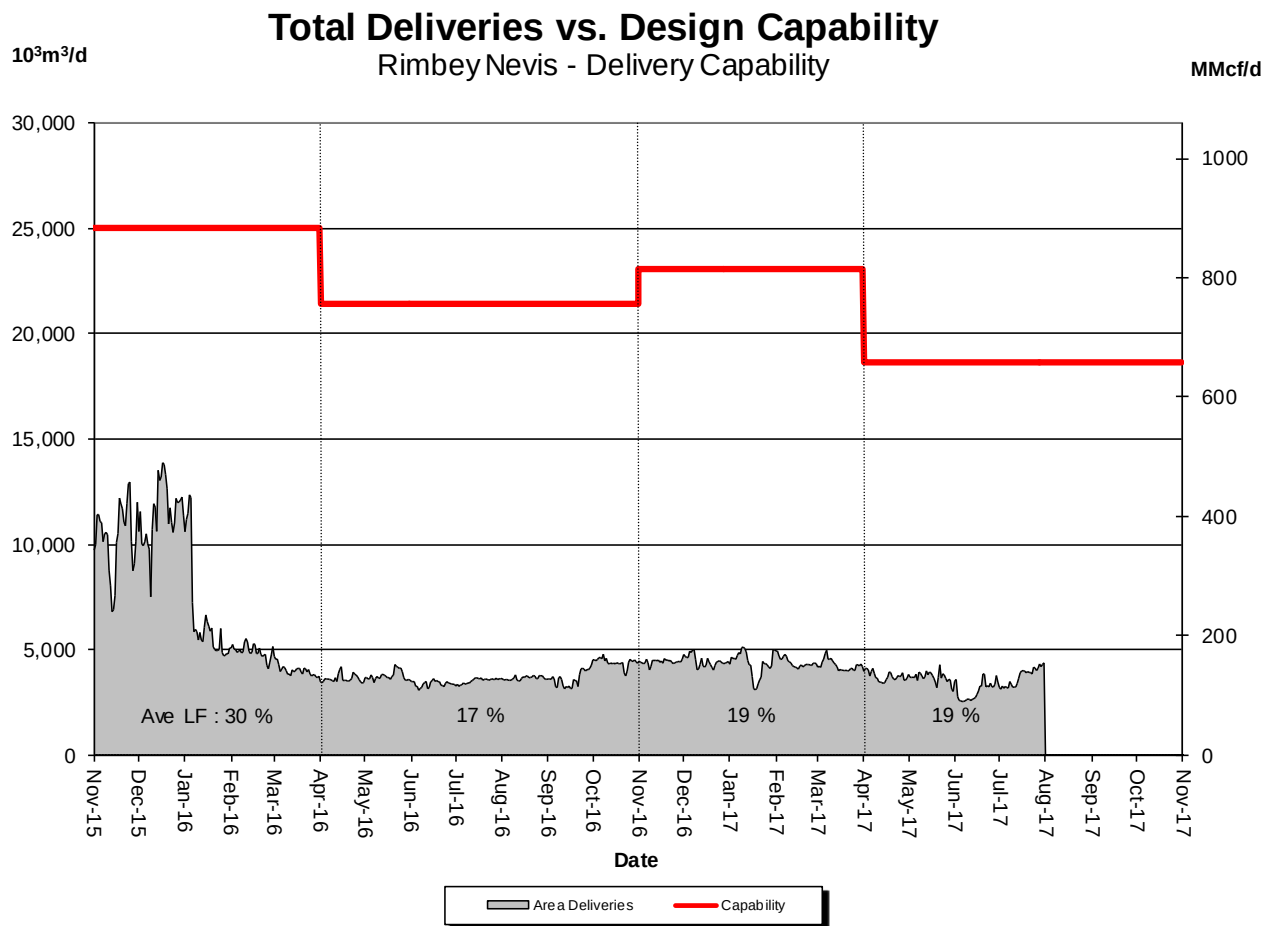
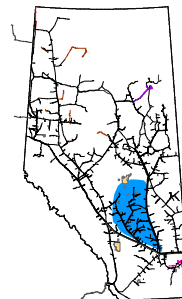
DESIGN CAPABILITY UTILIZATION WESTERN ALBERTA MAINLINE (Alberta/B.C. and Alberta/Montana Borders)



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	97%	96%	97%	98%	95%	100%

DESIGN CAPABILITY UTILIZATION

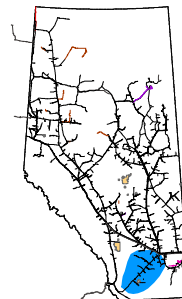
RIMBEY-NEVIS – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	19%	18%	20%	20%	16%	20%

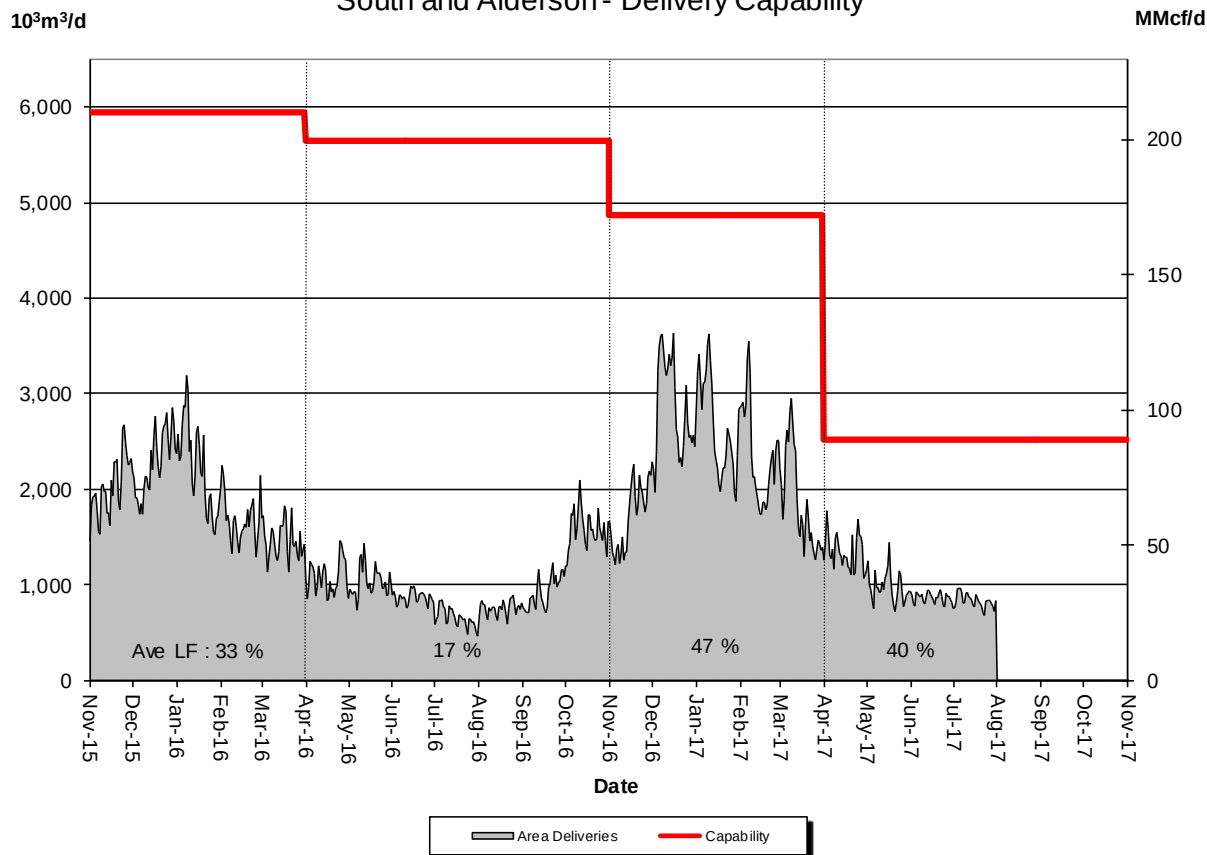
DESIGN CAPABILITY UTILIZATION

SOUTH and ALDERSON – FLOW WITHIN



Total Deliveries vs. Design Capability

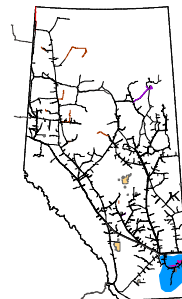
South and Alderson - Delivery Capability



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	48%	38%	53%	39%	34%	33%

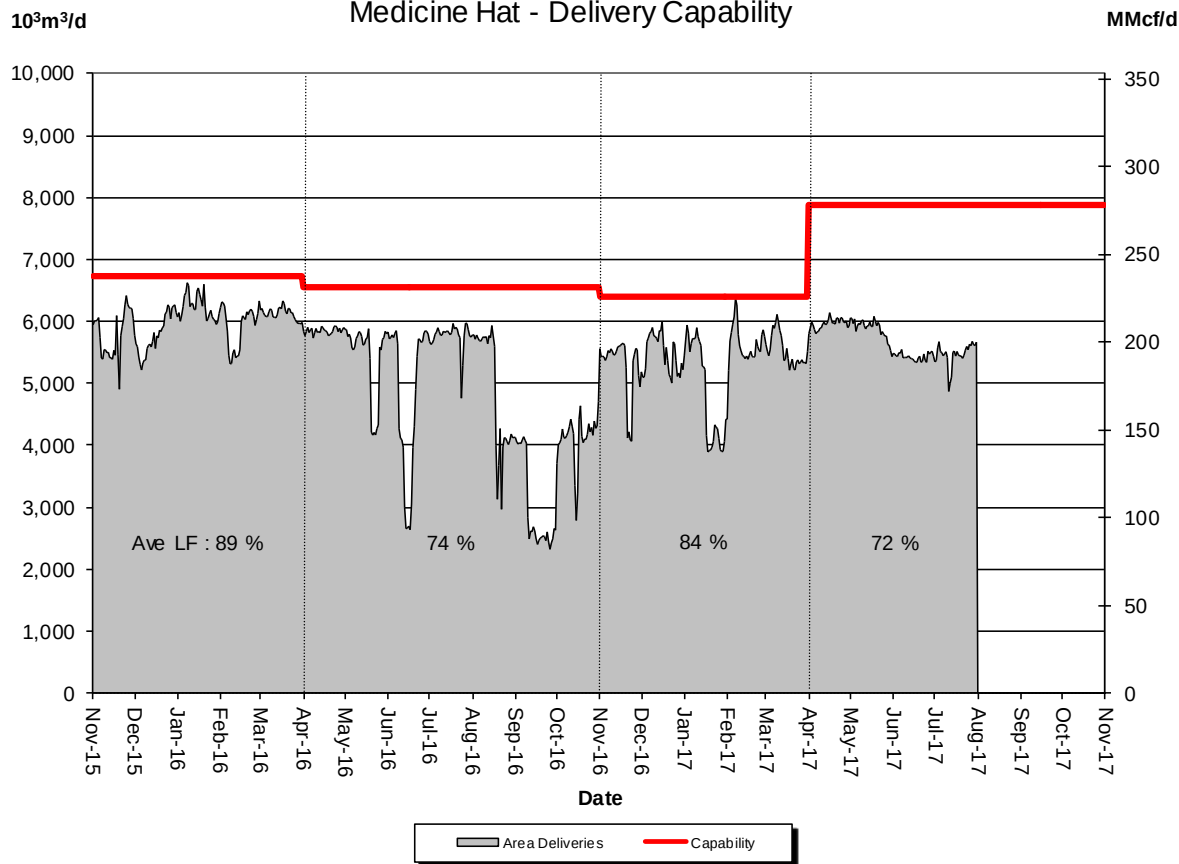
DESIGN CAPABILITY UTILIZATION

MEDICINE HAT – FLOW WITHIN



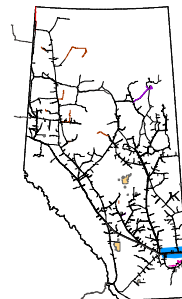
Total Deliveries vs. Design Capability

Medicine Hat - Delivery Capability



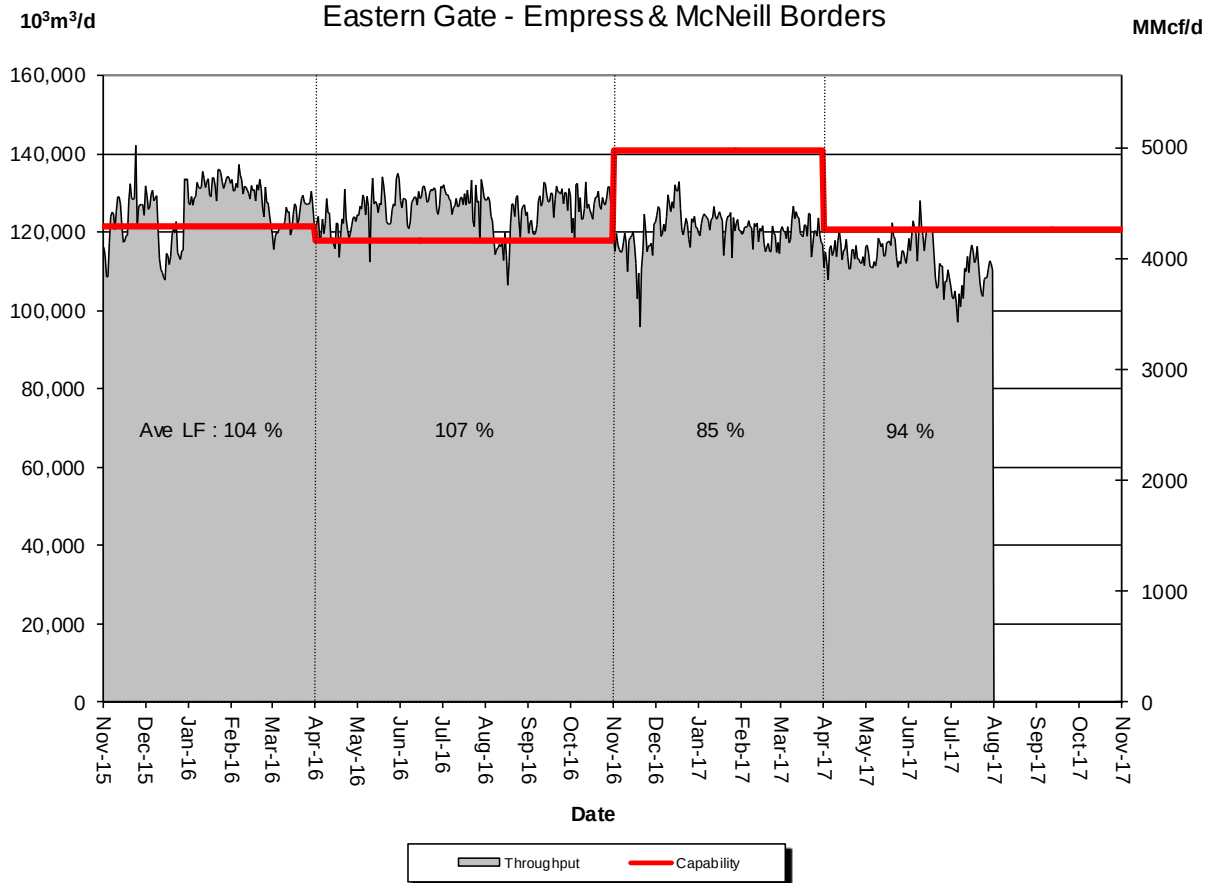
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	87%	86%	76%	75%	69%	69%

DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (Princess to Empress / McNeill)



Throughput vs. Design Capability

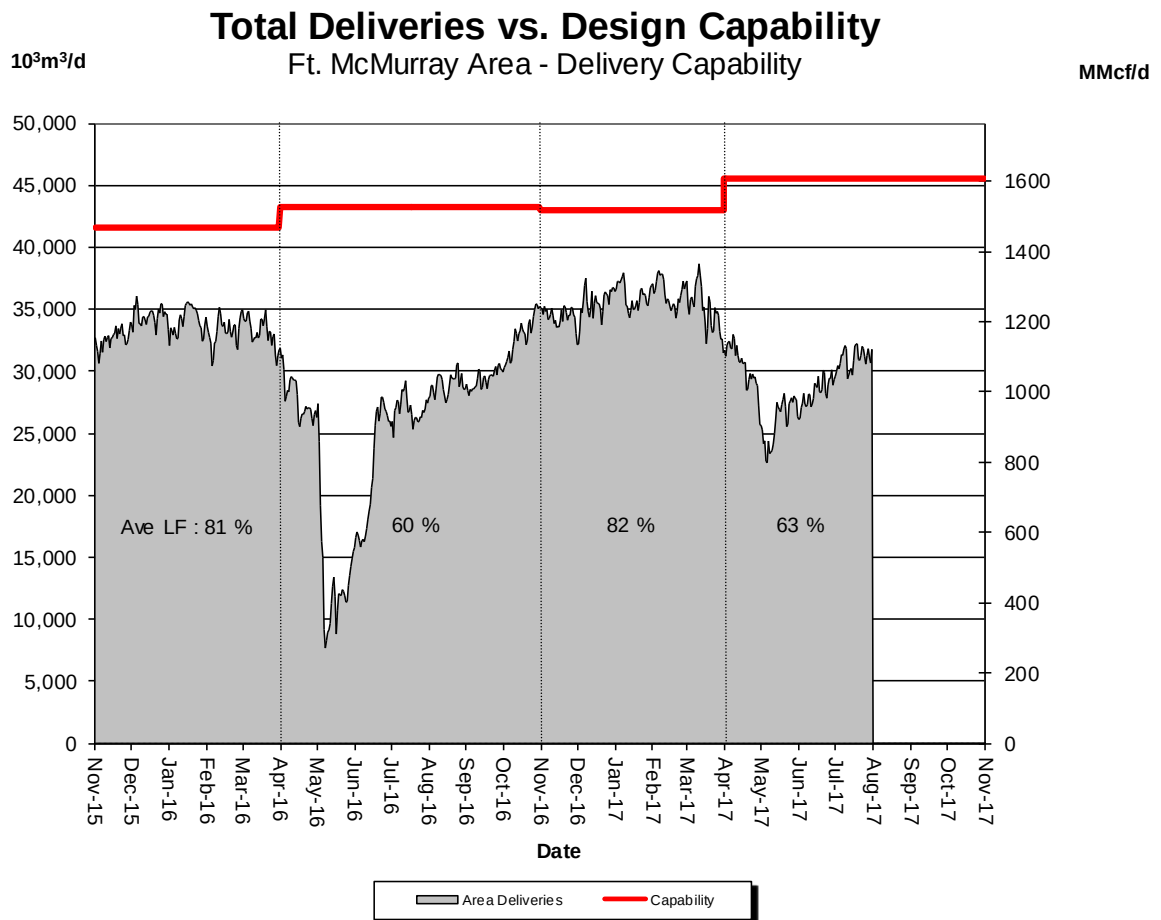
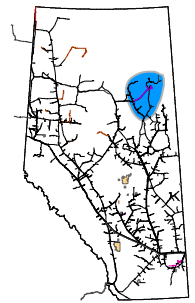
Eastern Gate - Empress & McNeill Borders



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	85%	86%	95%	95%	95%	90%

DESIGN CAPABILITY UTILIZATION

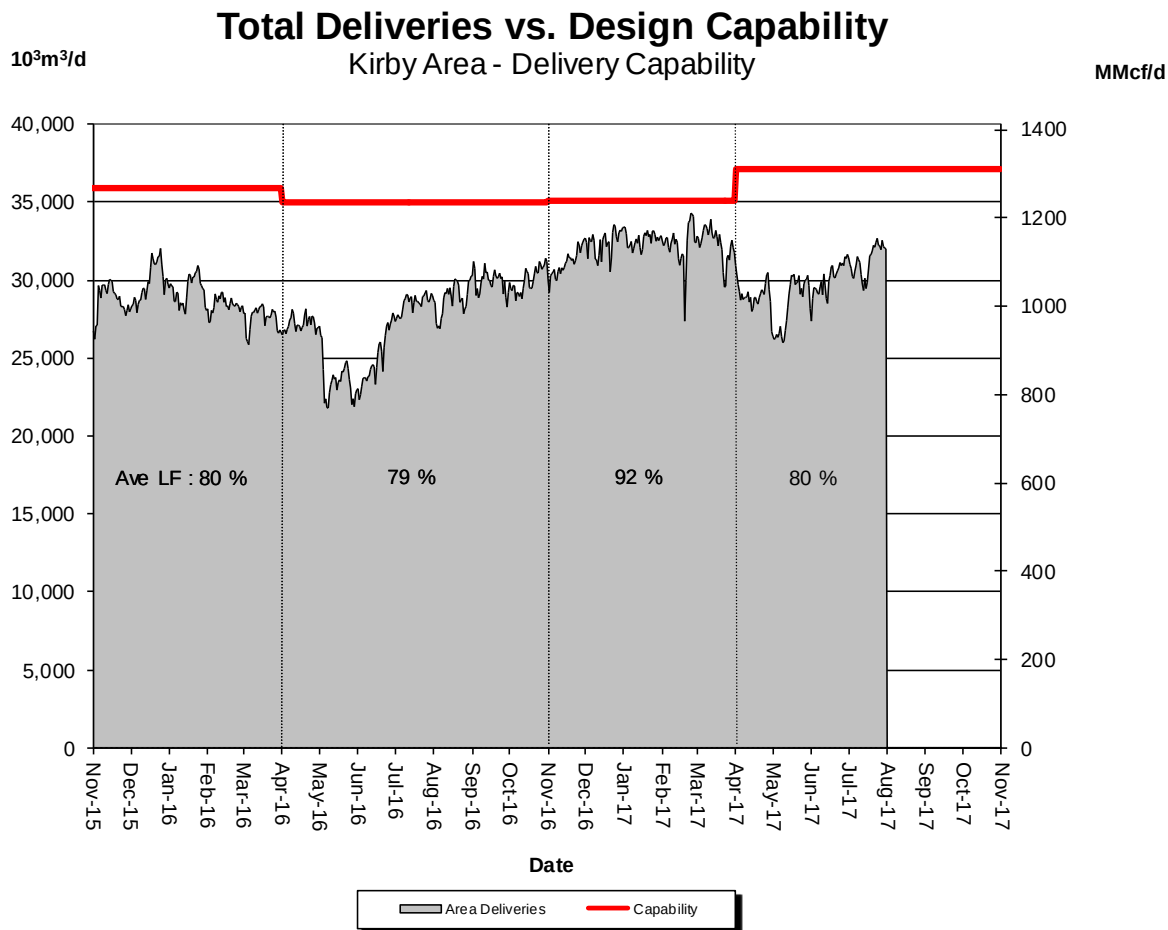
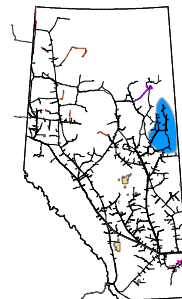
FT. McMURRAY AREA – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	84%	81%	67%	57%	62%	68%

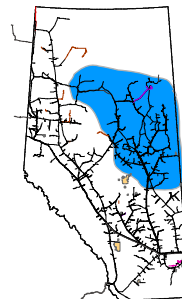
DESIGN CAPABILITY UTILIZATION

KIRBY AREA – FLOW WITHIN



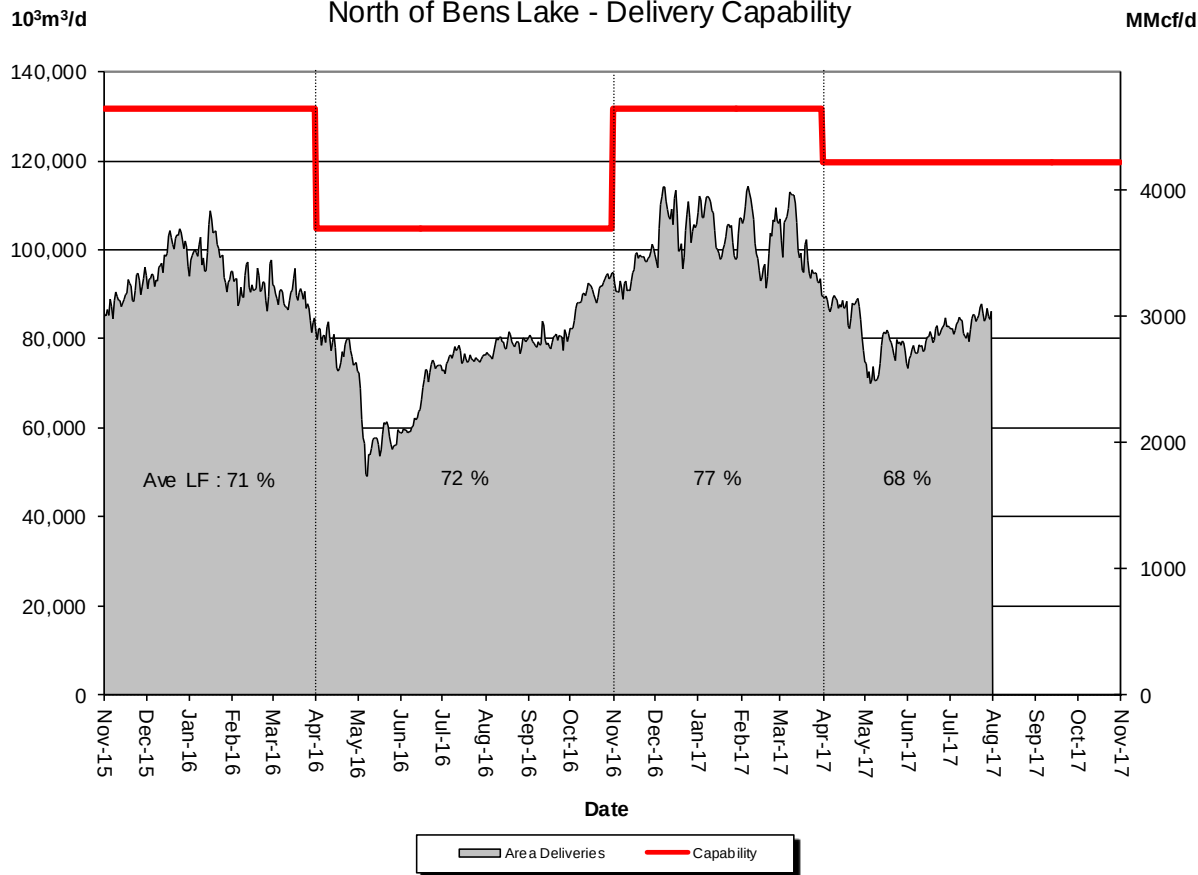
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	92%	92%	78%	76%	81%	84%

DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



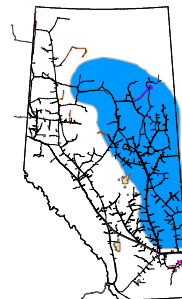
Total Deliveries vs. Design Capability

North of Bens Lake - Delivery Capability



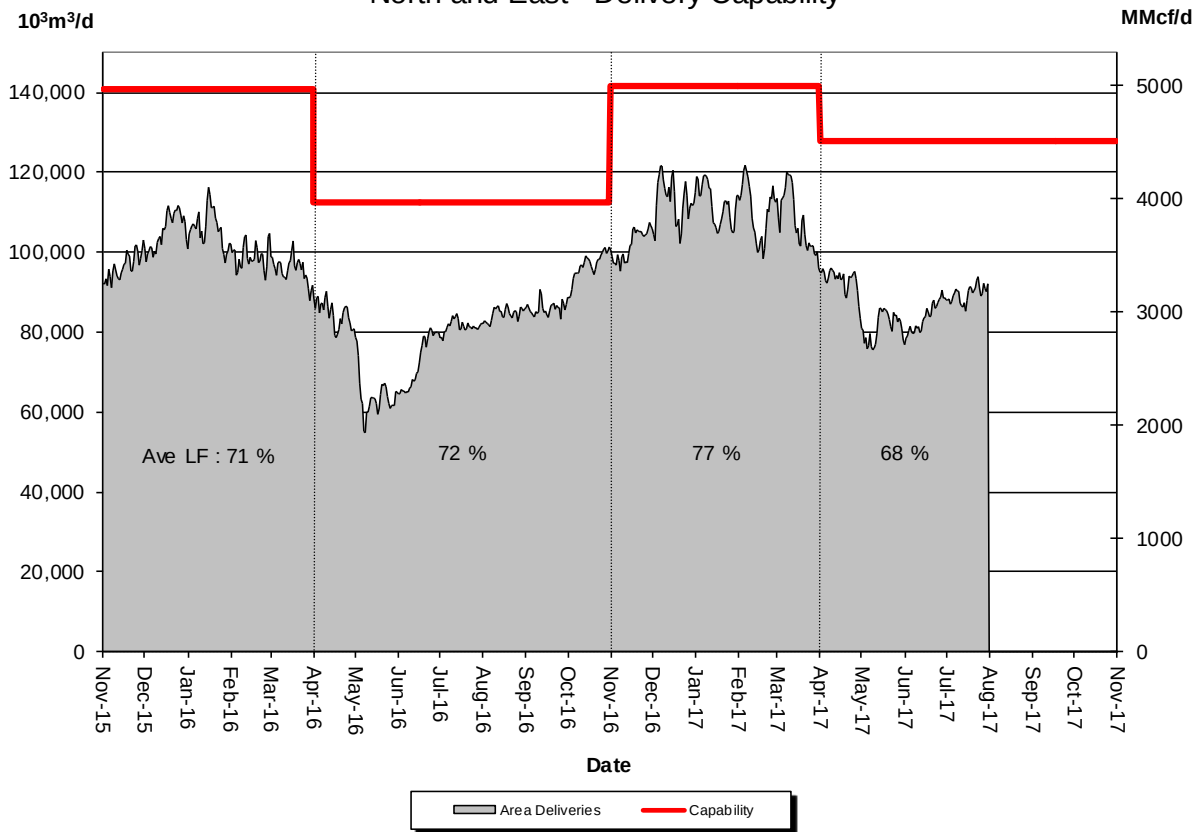
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	78%	77%	73%	64%	67%	70%

DESIGN CAPABILITY UTILIZATION NORTH & SOUTH OF BENS LAKE – FLOW WITHIN



Total Deliveries vs. Design Capability

North and East - Delivery Capability



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	78%	76%	73%	64%	65%	70%

FUTURE FIRM TRANSPORTATION SERVICE AVAILABILITY

Please consult with your Customer Account Manager to discuss your Firm Transportation Service needs.

Estimated Firm Transportation Service Availability

Please refer to the following web site for
current FT-R / FT-D Availability Maps:

[http://www.tccustomerexpress.com/2801.
html](http://www.tccustomerexpress.com/2801.html)

HOW TO USE THIS REPORT

Overview

This report contains recent historical information on the level of utilization of firm transportation Service Agreements on the NGTL system, relative usage of interruptible service, level of utilization of design pipeline capacity.

Data is reported either by **Pipeline Segment** (26 segments make up the system, without 23 & 27) or **Design Area** (13 Design Areas for the system). Maps of both are included in the reference section.

Firm Transportation Service Contract Utilization

The Firm Transportation Service Contract Utilization report shows the percent utilization for each of the 26 NGTL pipeline segments and 3 major export delivery points comprising the total system. The utilization data is based on billed monthly volumes. Percent utilization is calculated as firm transportation service and firm transportation service + interruptible service divided by applicable receipt or delivery contract level. Historical Data involving billed volumes lags the current date by approximately two months.

Design Capability Utilization

The load factor/segment flow graphs show actual flow versus design capability values for various NGTL system areas. The graphs also show seasonal (winter/summer) design capability and average load factors (LF) for each season. Load factors are obtained by comparing the receipt, delivery, or throughput flow condition in each of the Alberta design areas against the corresponding design capability. Consequently, design capability utilization is measured as Average Actual Flow / Seasonal Design Capability. Data used in these reports lags the current date by at least one month.

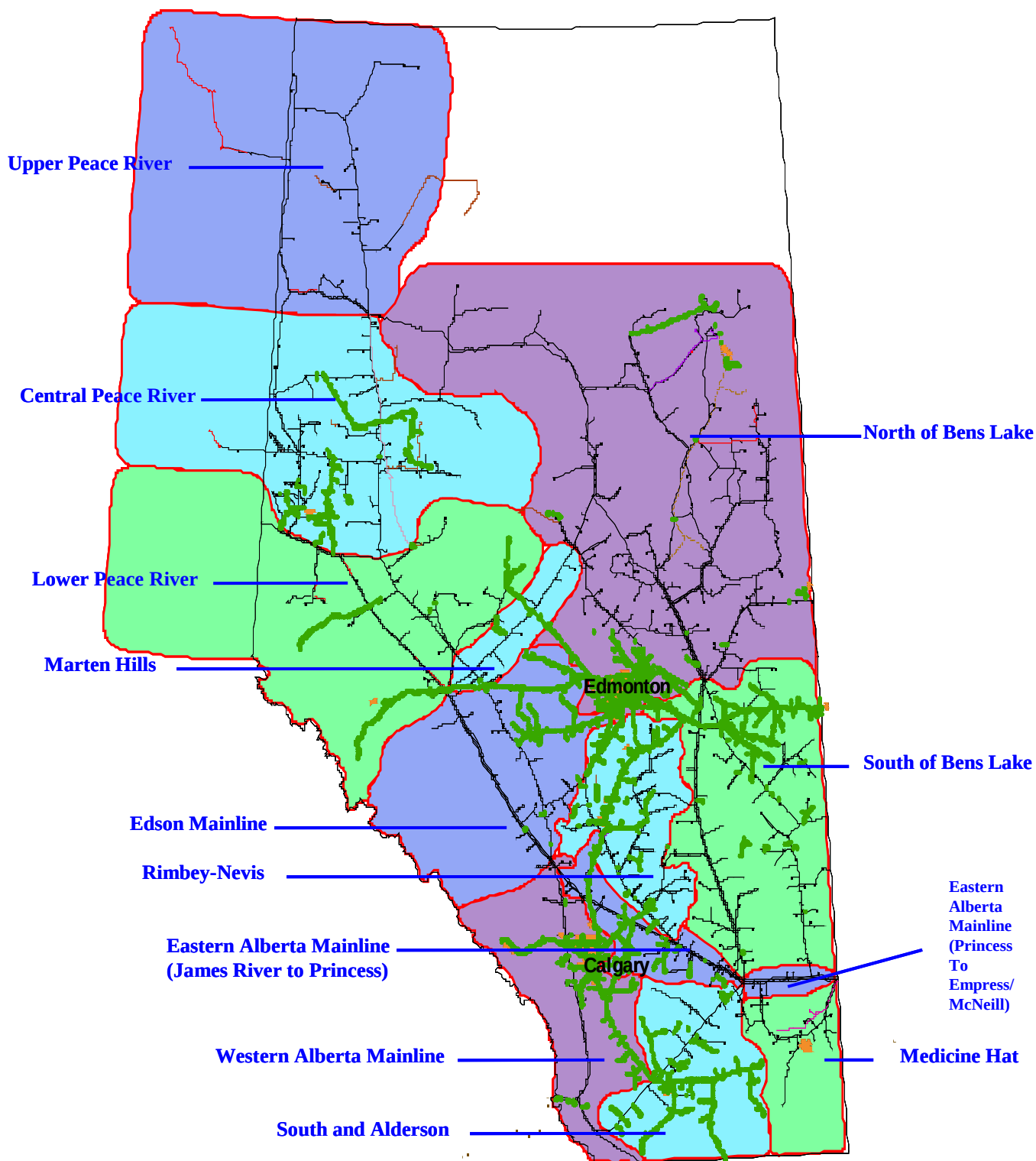
Design Flow Capability utilization is a function of several factors that include:

- Total market demand for Alberta natural gas.
- Seasonal changes in market demand for Alberta natural gas.
- Receipt nominating practices of customers individually and in aggregate to meet that level of demand.
- Scheduled maintenance which could effect actual flow requirement in a design area at any given time.
- Design assumptions used in determining required segment flow requirement.

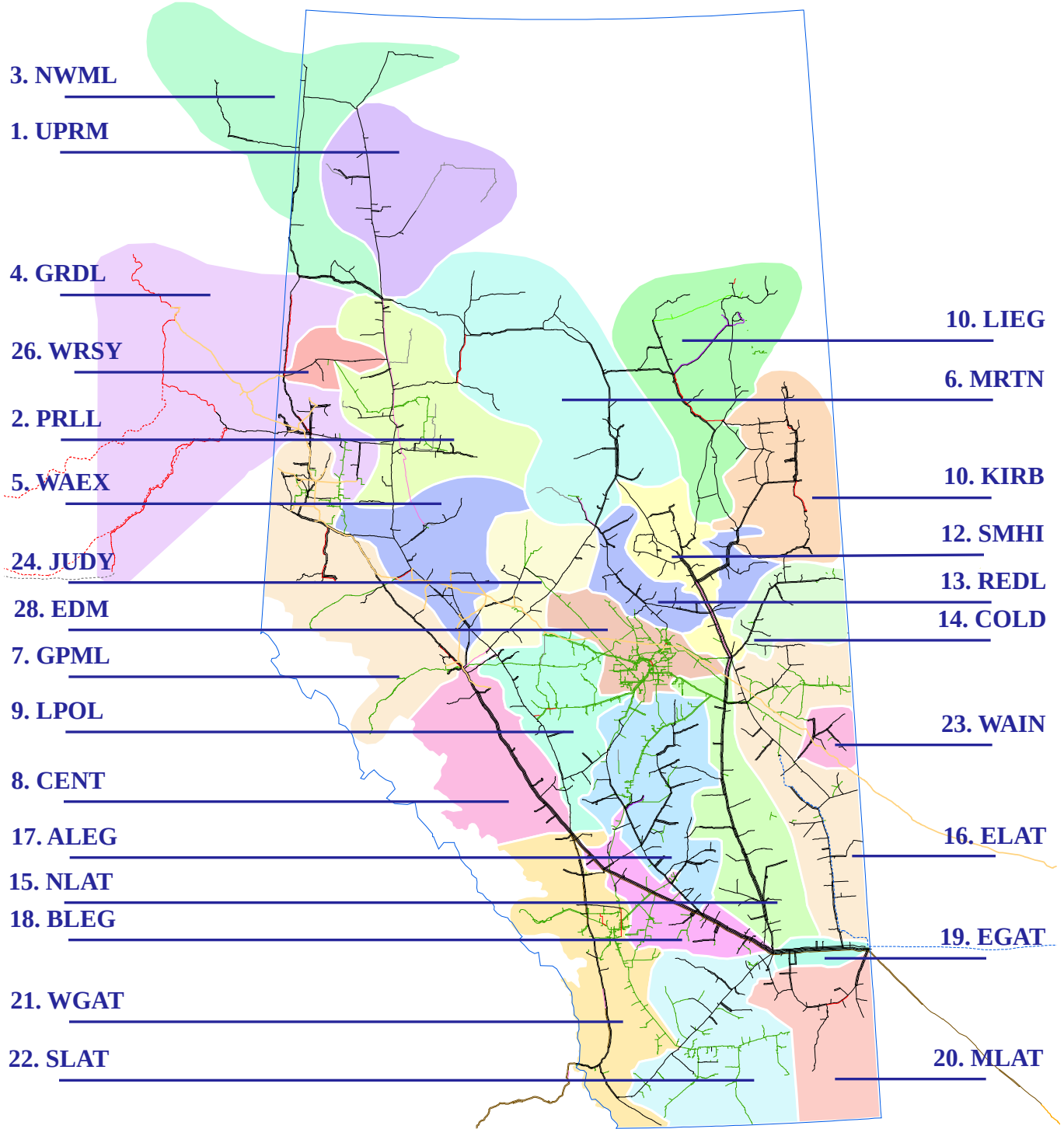
Future Firm Transportation Service Availability

The Future Firm Transportation Service Availability report presents guidelines and timing for all future firm transportation service requests.

NGTL Design Areas



(Last updated Nov 2011)



Last Update May, 2015

DEFINITION OF TERMS

Design Capability Utilization

Actual Flow

The amount of gas flowing within or out of the design area.

Design Capability

The volume of gas that can be transported from the design area on the pipeline system considering given design assumptions.

AVGLF (Average Load Factor)

The ratio between average *Actual Flow* and *Design Capability*. It is calculated for every design season (summer/winter) as shown on the graphs.

Intra NGTL System Deliveries

The amount of sales gas flowing off the system within an area.

Receipt Flow

Aggregate of actual receipts within an area and the *Actual Flow* of the upstream area.

Other

System Load Factor

The volume weighted average of the *Average Load Factor (AVGLF)* of all design areas on the system
