

SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

December 2016

<http://www.transcanada.com/customerexpress/2885.html>

Published date:

February 15th, 2017

Highlights This Month:

- No new highlights this month.

NOVA Gas Transmission Ltd.

TABLE OF CONTENTS

<u>MONTHLY FEATURES</u>	PAGE
Firm Transportation Service Contract Utilization	3
Design Capability Utilization	
Upper Peace River	4
Upper & Central Peace River	5
Peace River Design	6
Upstream James River	7
Eastern Alberta Mainline (James River to Princess)	8
Western Alberta Mainline (AB/BC & AB/Montana Borders)	9
Rimbey Nevis – Flow Within	10
South & Alderson – Flow Within	11
Medicine Hat - Flow Within	12
Eastern Alberta Mainline (Princess to Empress/McNeill)	13
Ft. McMurray Area – Flow Within.....	14
Kirby Area – Flow Within.....	15
North of Bens Lake – Flow Within	16
North & South of Bens Lake – Flow Within.....	17
Future Firm Transportation Service Availability	18
How to Use This Report	19

REFERENCES

NGTL Design Areas Map	20
NGTL Pipeline Segments Map	21
Definition of Terms	22

If you have any questions on the content of this report, contact Winston Cao at (403) 920-5315 or via fax at (403) 920-2357.

FIRM TRANSPORTATION SERVICE¹ CONTRACT UTILIZATION³

By NGTL Pipeline Segments
December 2016

Segment	Contract	Utilization	Delivery	Utilization	Receipt
			Dec CD (TJ/d)		Dec CD (MMcf/d)
UPRM	FT	0%	0.0	84%	69
	FT + IT ²	0%		84%	
PRLL	FT	67%	32.4	86%	88
	FT + IT	82%		90%	
NWML	FT	59%	6.9	82%	381
	FT + IT	63%		82%	
GRDL	FT	43%	8.9	89%	2,130
	FT + IT	98%		90%	
WRSY	FT	0%	0.0	77%	24
	FT + IT	0%		81%	
WAEX	FT	41%	7.3	78%	763
	FT + IT	100%		79%	
JUDY	FT	73%	20.2	83%	61
	FT + IT	92%		86%	
GPML	FT	57%	161.5	85%	4,062
	FT + IT	91%		86%	
CENT	FT	0%	0.0	86%	1,734
	FT + IT	0%		88%	
LPOL	FT	47%	71.9	79%	857
	FT + IT	50%		84%	
WGAT	FT	83%	3,807.2	91%	305
	FT + IT	87%		97%	
ALEG	FT	64%	373.3	88%	799
	FT + IT	66%		97%	
SLAT	FT	51%	186.2	82%	215
	FT + IT	52%		97%	
MLAT	FT	72%	279.8	79%	198
	FT + IT	73%		85%	
BLEG	FT	73%	135.1	83%	560
	FT + IT	74%		89%	
EGAT	FT	96%	3,952.0	67%	31
	FT + IT	119%		82%	
MRTN	FT	25%	27.5	71%	52
	FT + IT	33%		87%	
LIEG	FT	78%	1,848.4	64%	33
	FT + IT	78%		110%	
KIRB	FT	82%	1,555.2	73%	39
	FT + IT	82%		96%	
SMHI	FT	59%	12.1	78%	16
	FT + IT	59%		179%	
REDL	FT	44%	19.0	54%	23
	FT + IT	55%		150%	
COLD	FT	52%	172.0	49%	16
	FT + IT	54%		104%	
EDM	FT	60%	1,854.3	88%	37
	FT + IT	61%		110%	
NLAT	FT	49%	14.8	92%	129
	FT + IT	50%		114%	
WAIN	FT	47%	0.4	78%	6
	FT + IT	47%		134%	
ELAT	FT	86%	274.2	84%	120
	FT + IT	86%		100%	
TOTAL SYSTEM	FT	80%	14,820.7	85%	12,748
	FT + IT	89%		88%	

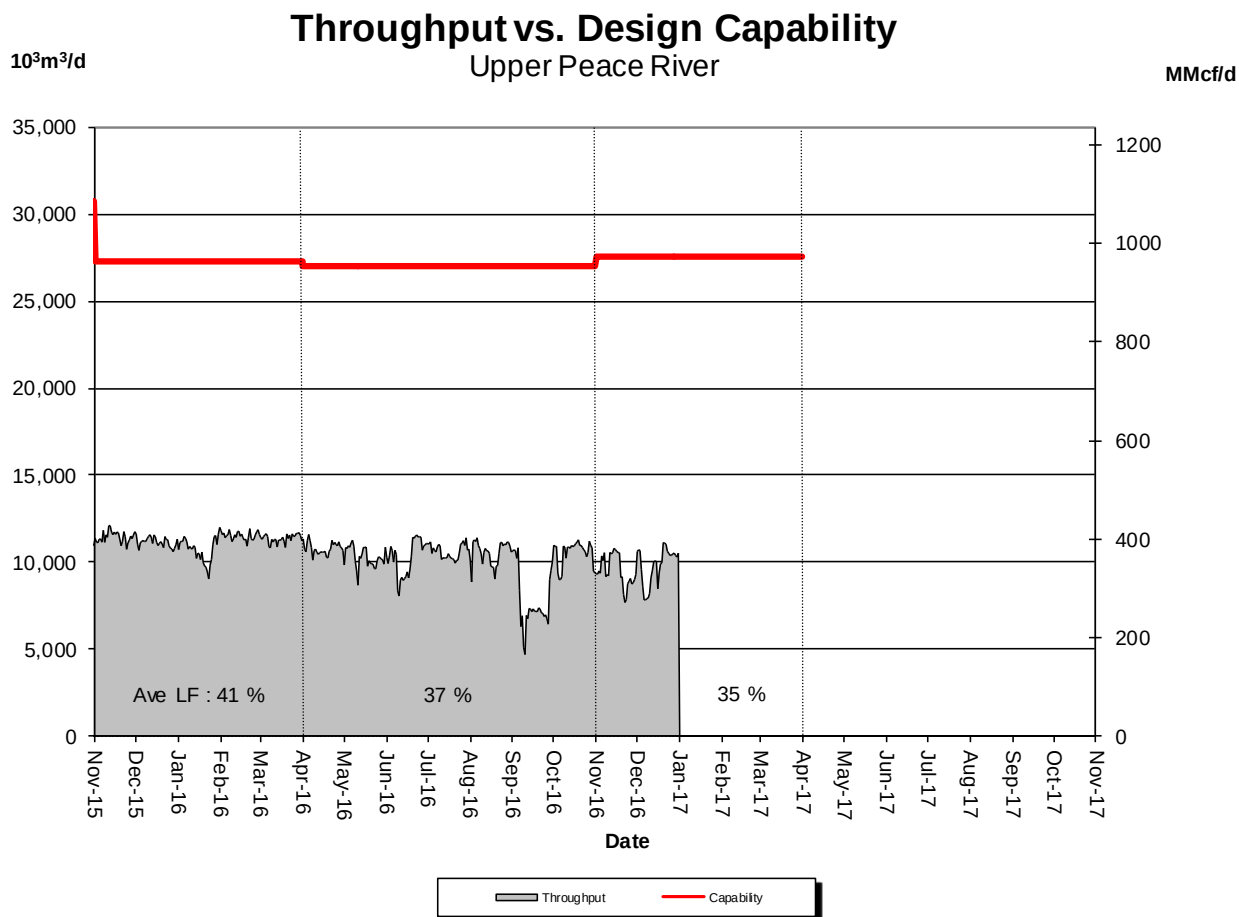
*NOTE:

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

2. IT includes receipt and delivery Interruptible Services.

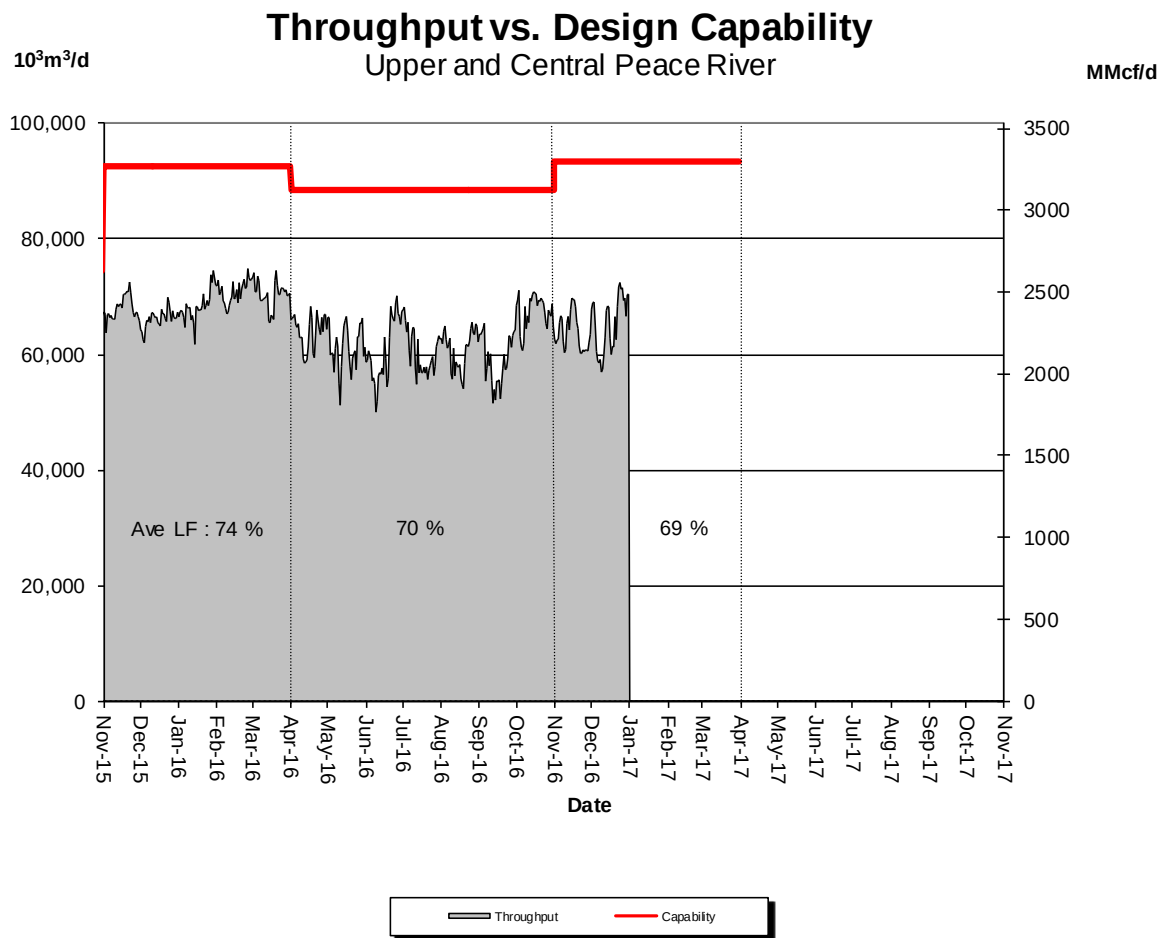
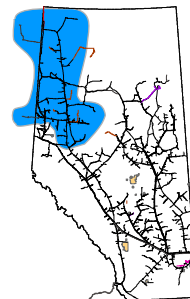
3. Utilization data is based on billed monthly volumes. Percent utilization calculated as FT and FT + IT billed volumes divided by applicable receipt or delivery Contract level.

DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER



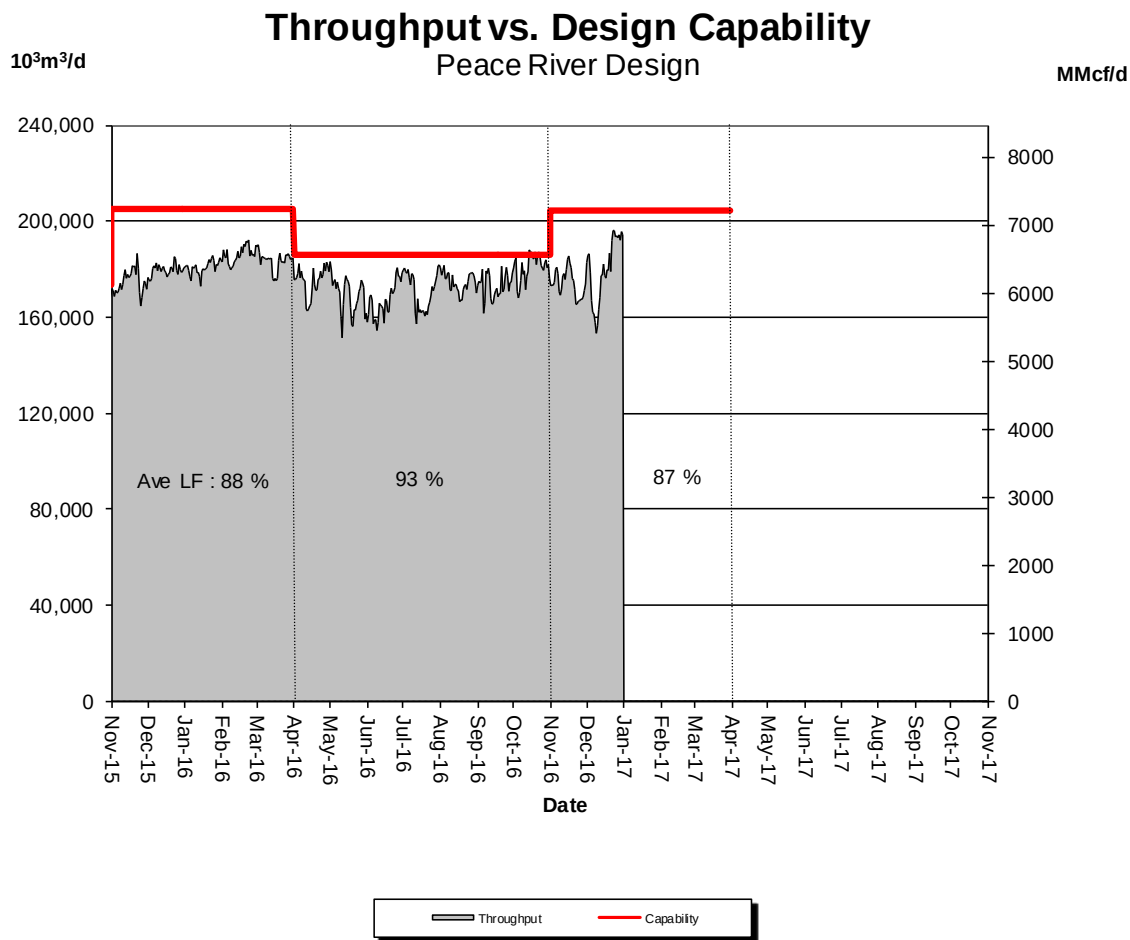
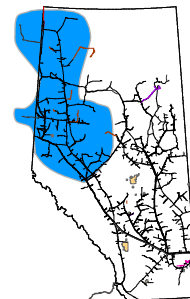
% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	39%	39%	29%	39%	35%	36%

DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	68%	69%	67%	76%	68%	70%

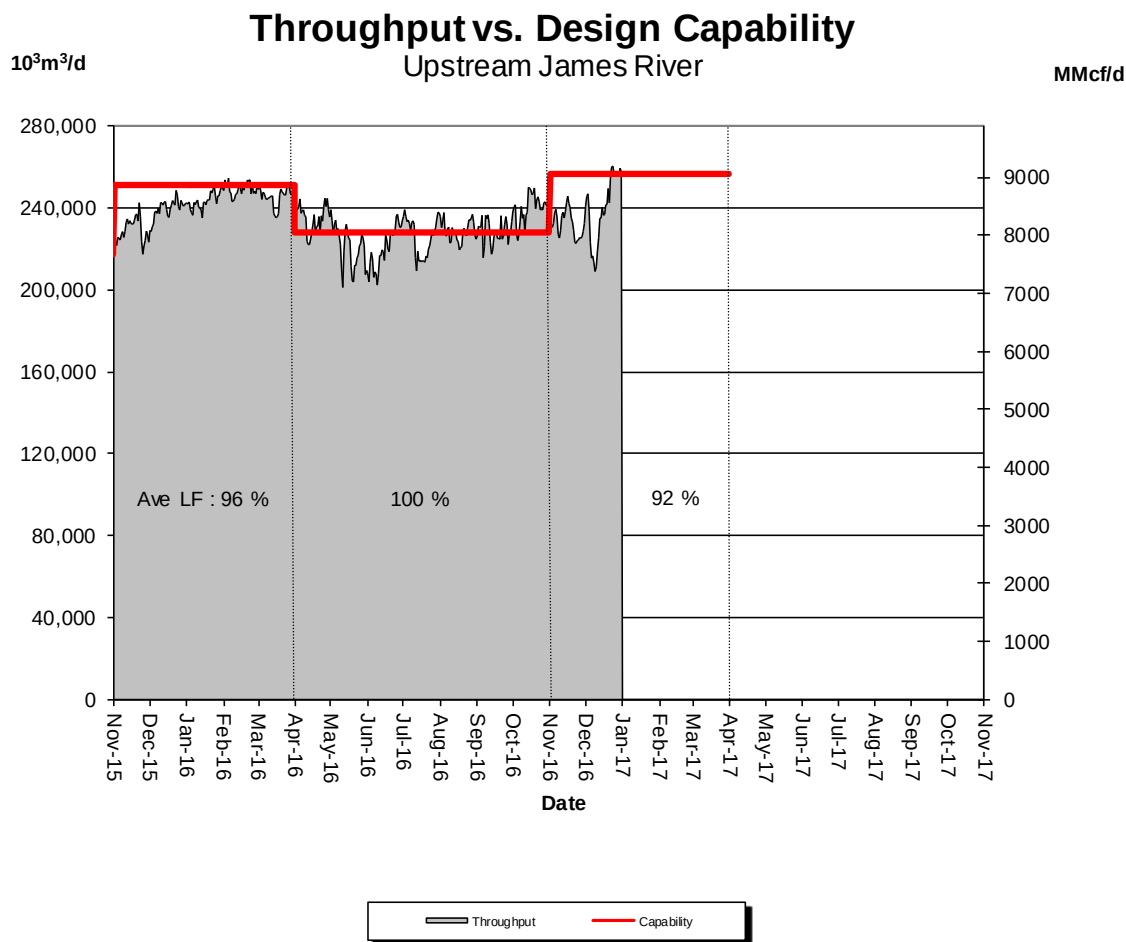
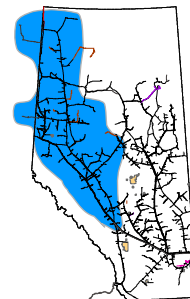
DESIGN CAPABILITY UTILIZATION PEACE RIVER DESIGN (Upper, Central and Lower Peace River)



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	92%	94%	93%	97%	85%	88%

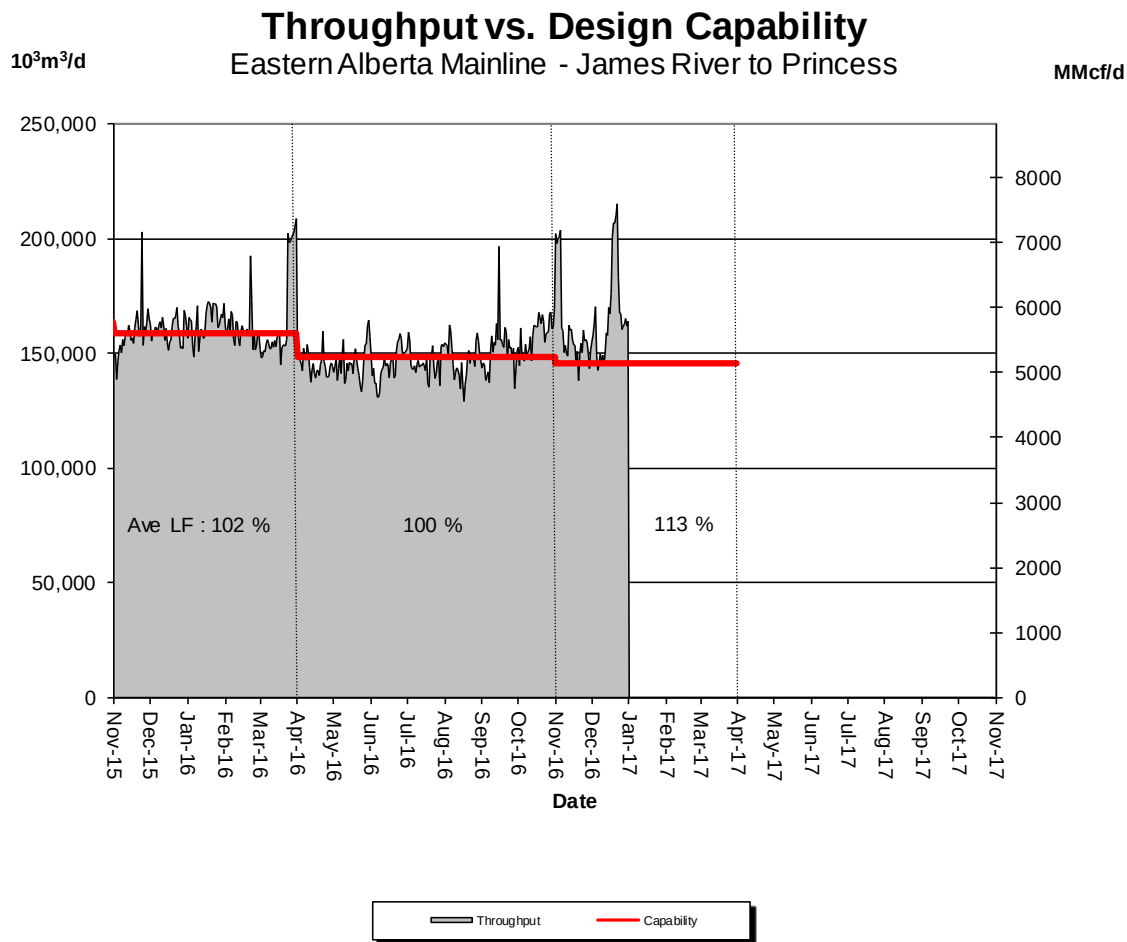
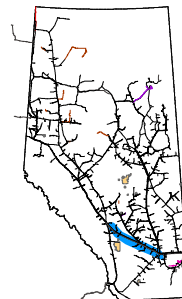
DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)



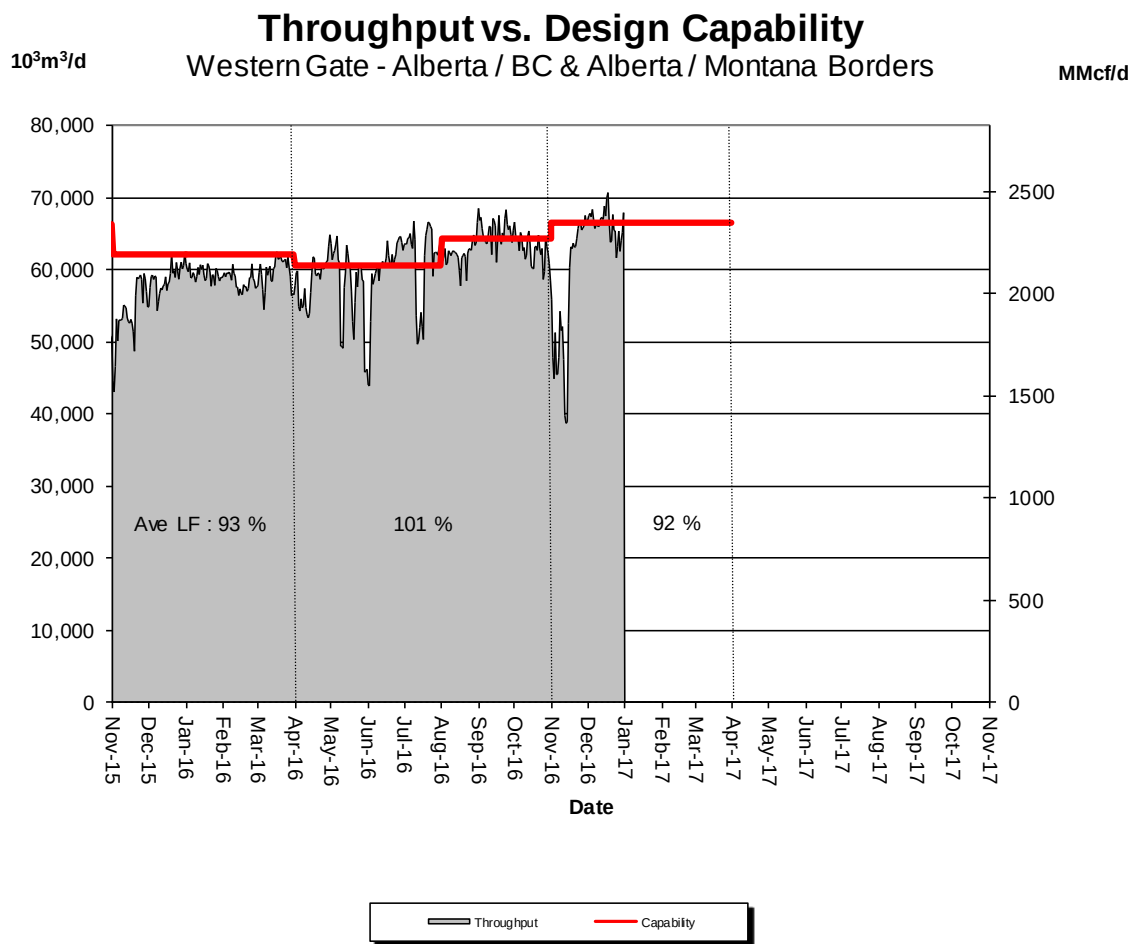
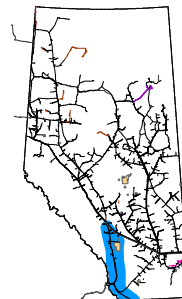
% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	99%	100%	100%	105%	90%	93%

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



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	98%	99%	102%	107%	110%	115%

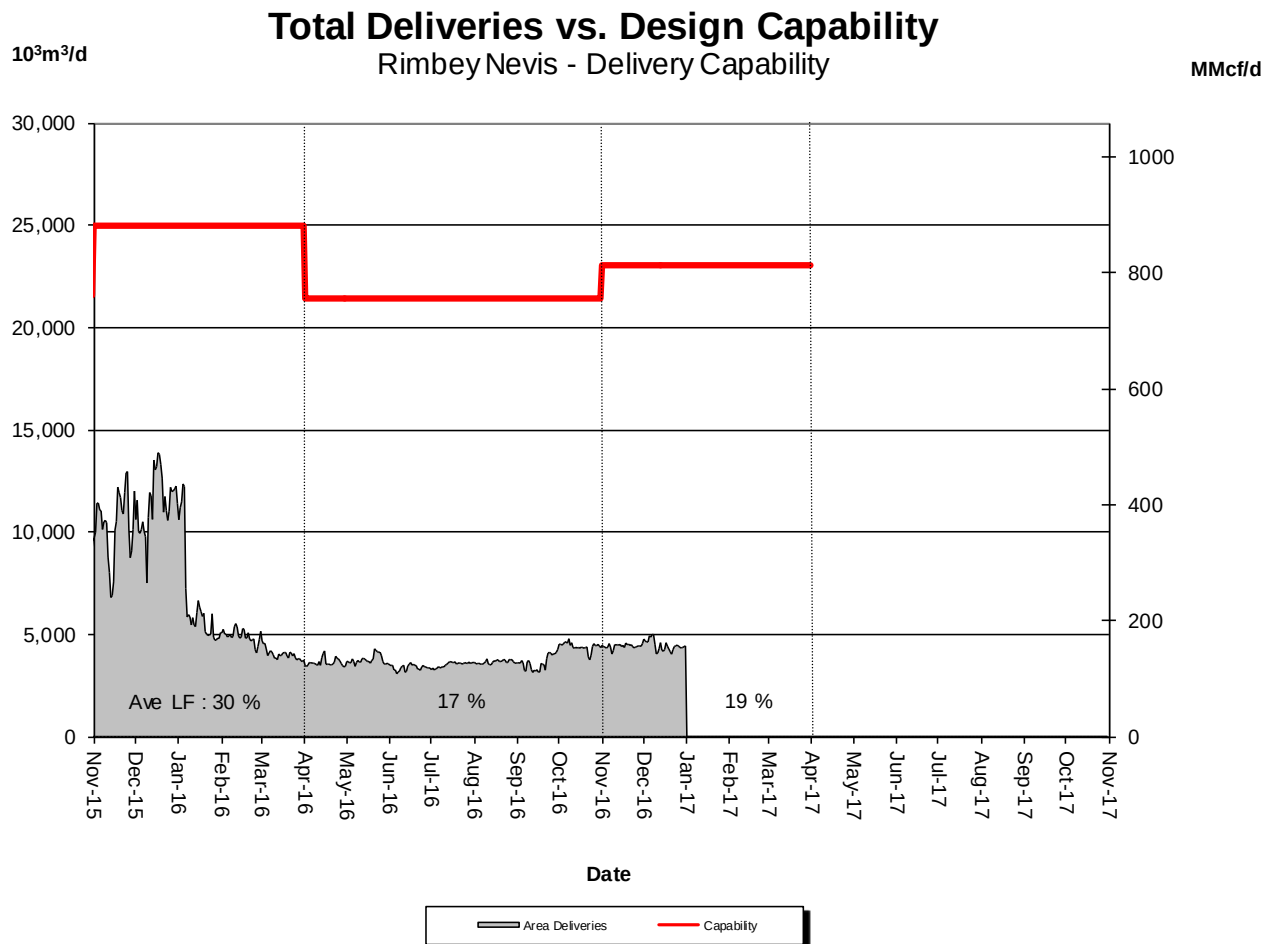
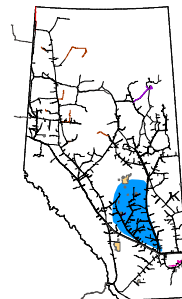
DESIGN CAPABILITY UTILIZATION WESTERN ALBERTA MAINLINE (Alberta/B.C. and Alberta/Montana Borders)



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	101%	97%	102%	98%	84%	100%

DESIGN CAPABILITY UTILIZATION

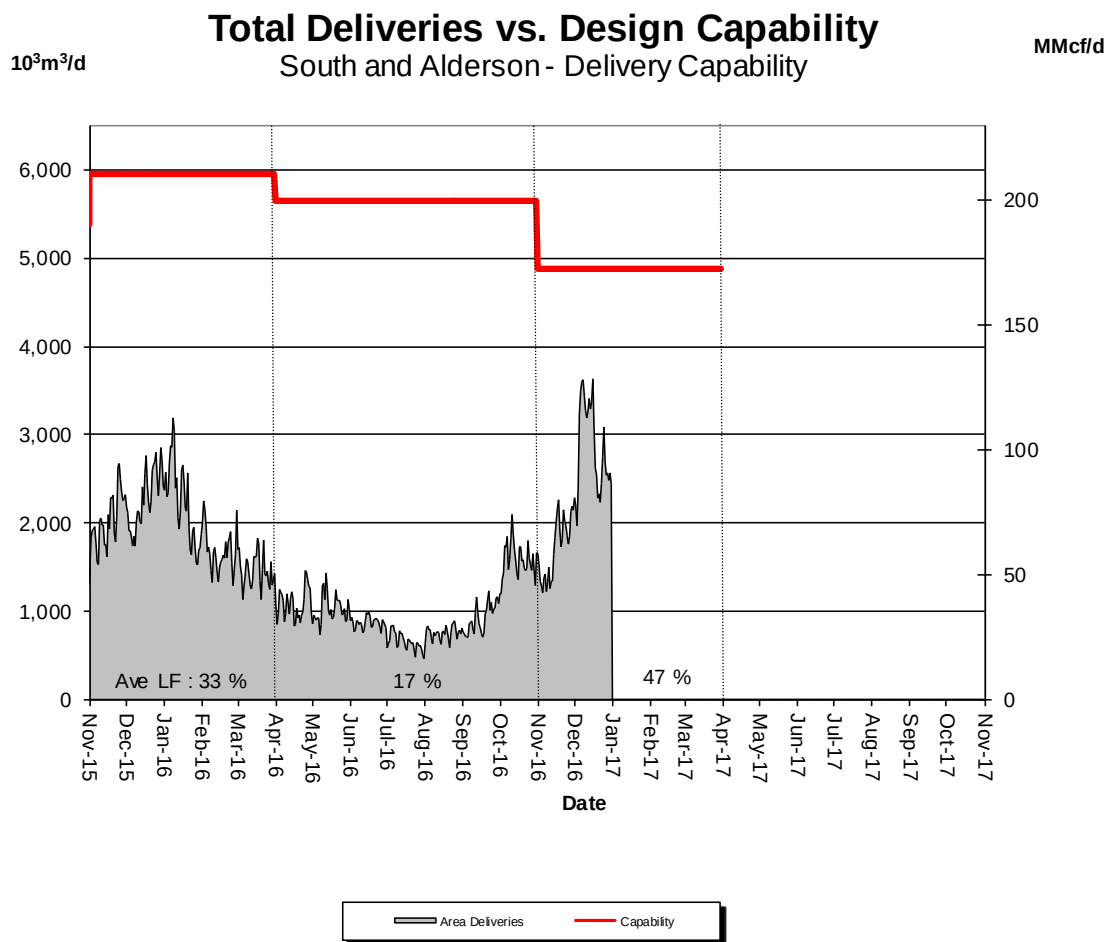
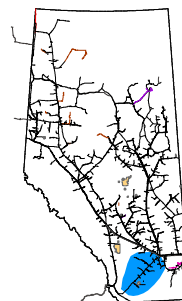
RIMBEY-NEVIS – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	16%	17%	17%	21%	19%	19%

DESIGN CAPABILITY UTILIZATION

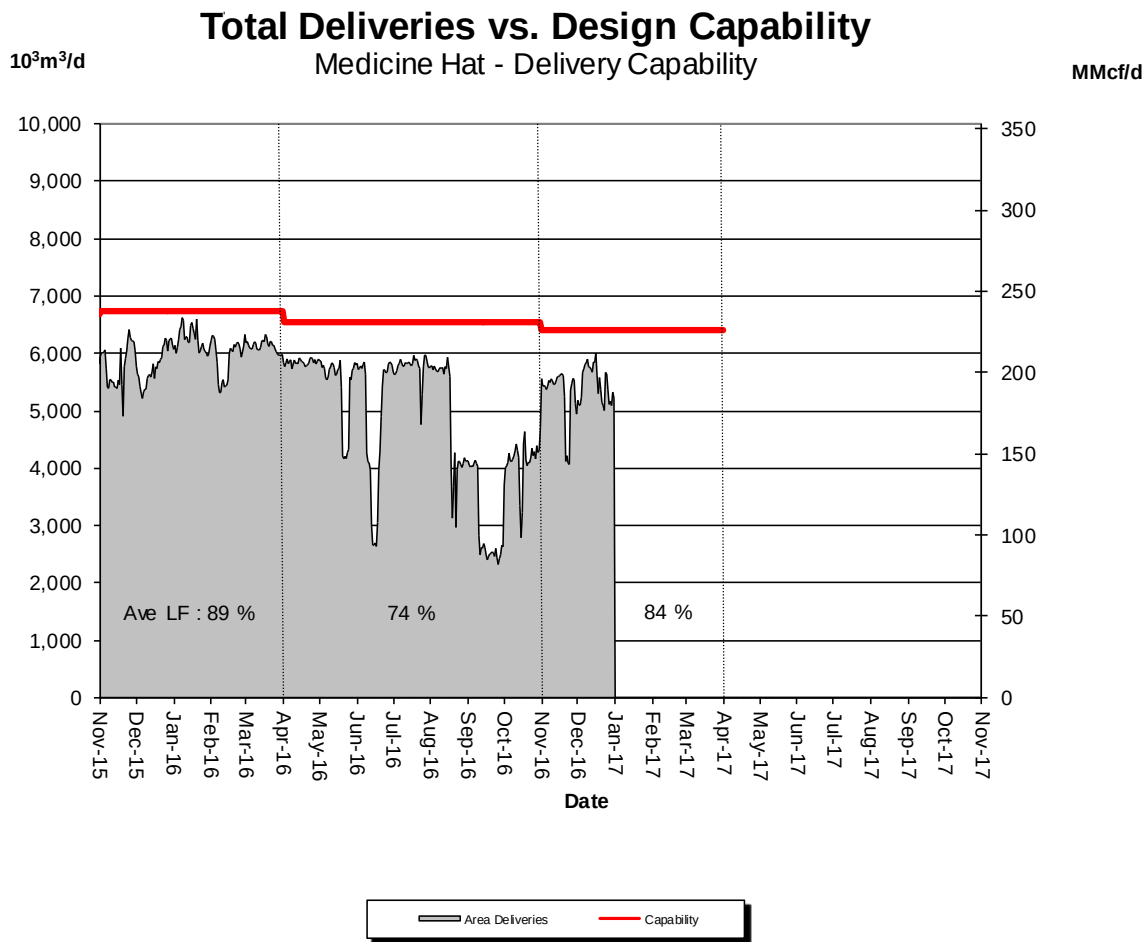
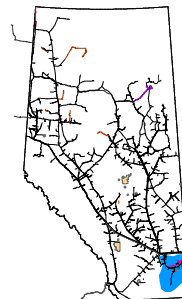
SOUTH and ALDERSON – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	12%	13%	16%	28%	35%	58%

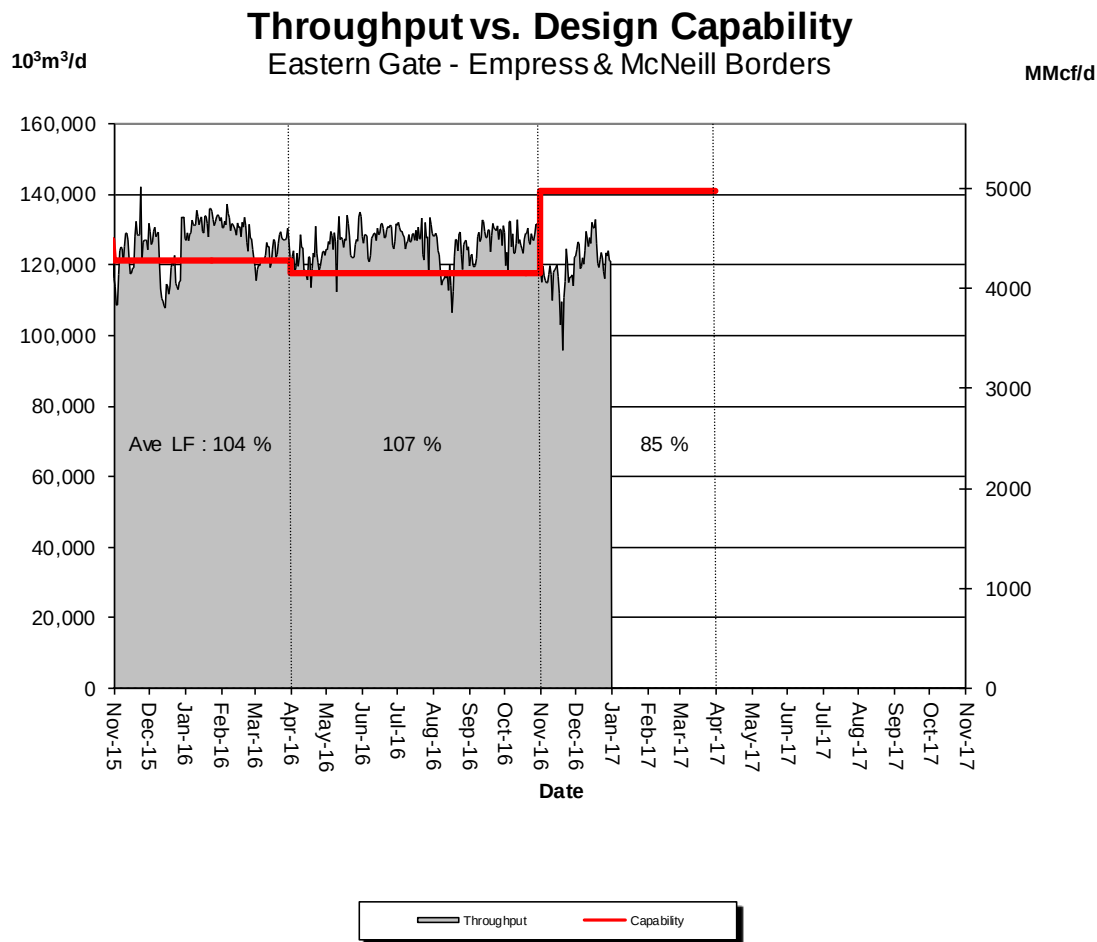
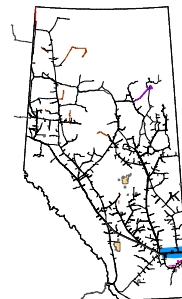
DESIGN CAPABILITY UTILIZATION

MEDICINE HAT – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	88%	75%	46%	63%	83%	86%

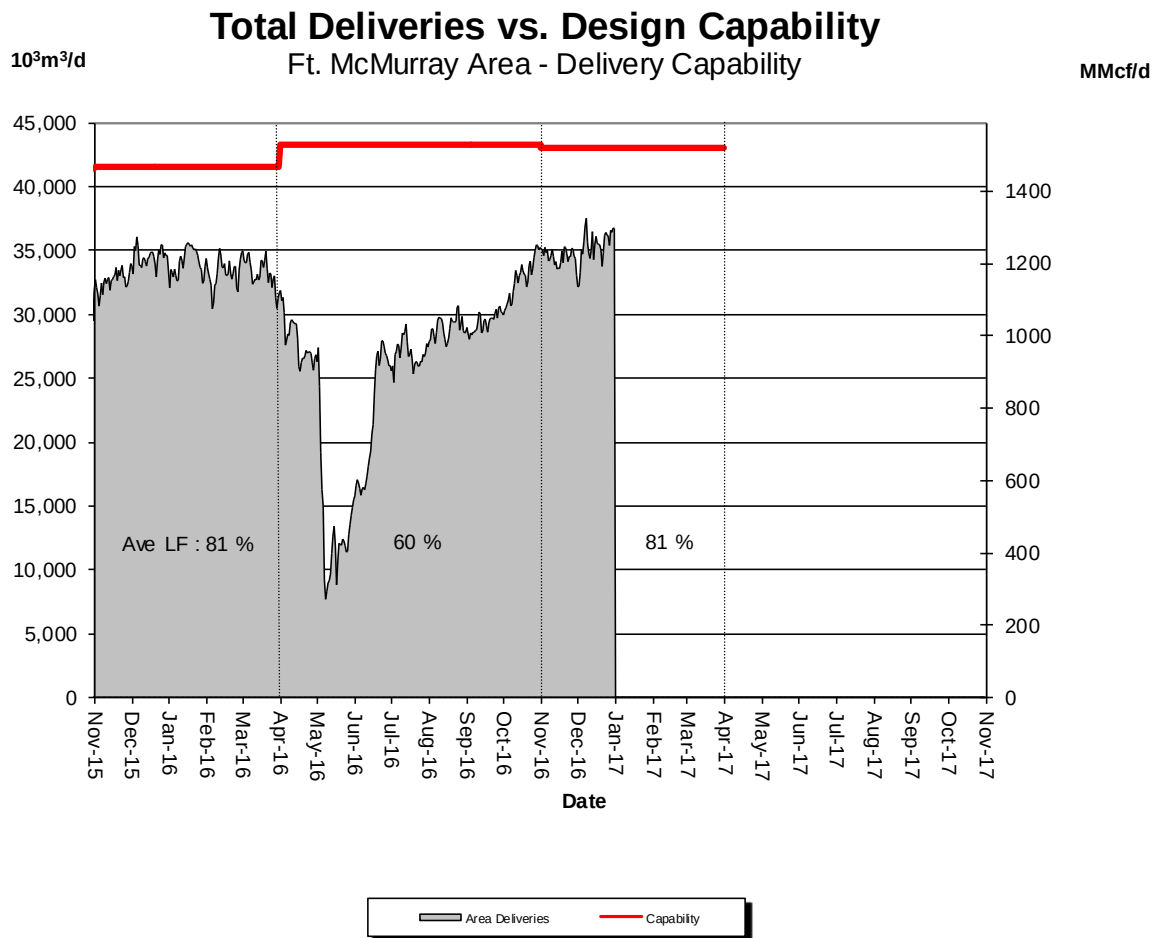
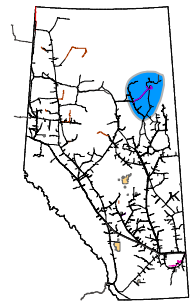
DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (Princess to Empress / McNeill)



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	109%	103%	108%	108%	82%	88%

DESIGN CAPABILITY UTILIZATION

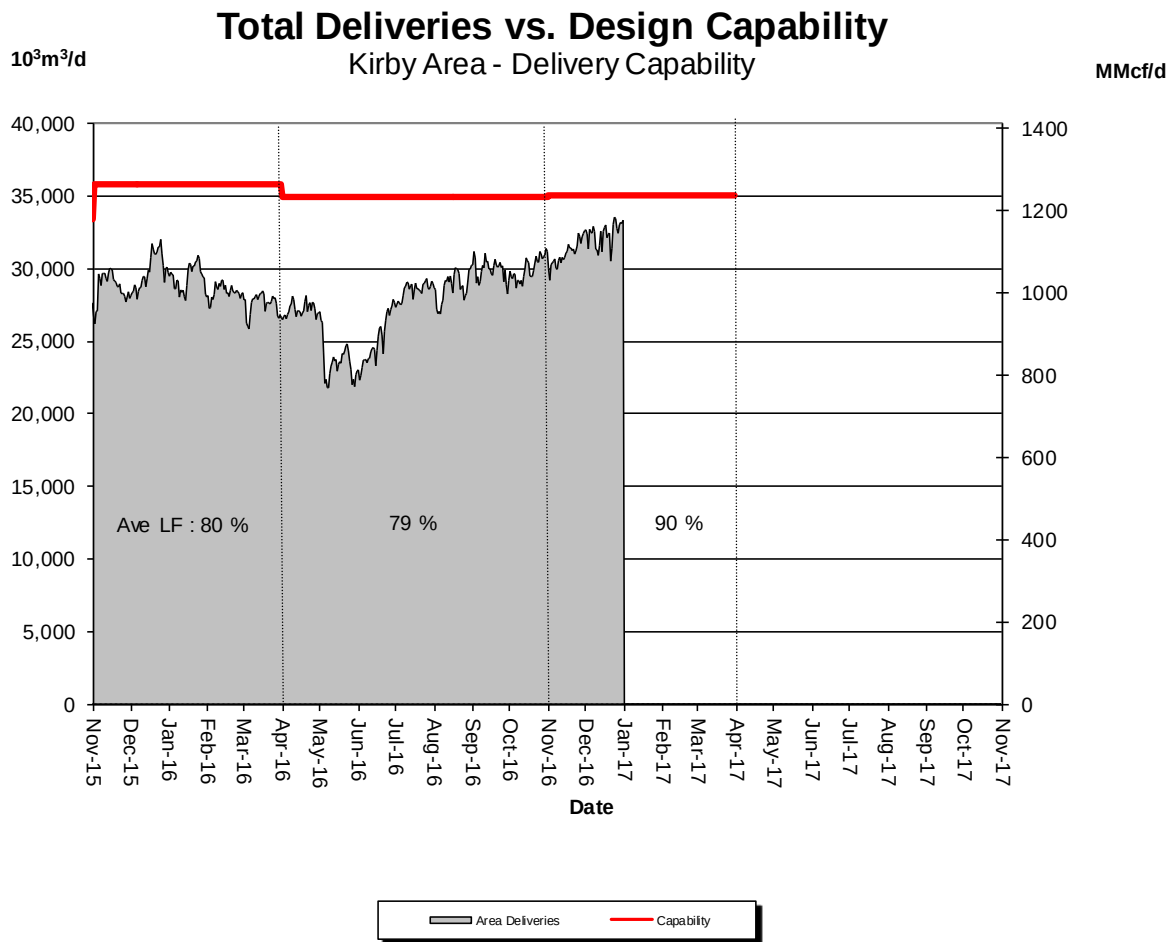
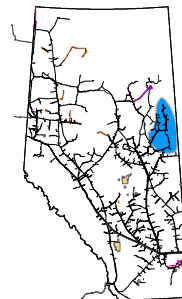
FT. McMURRAY AREA – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	62%	67%	68%	76%	80%	82%

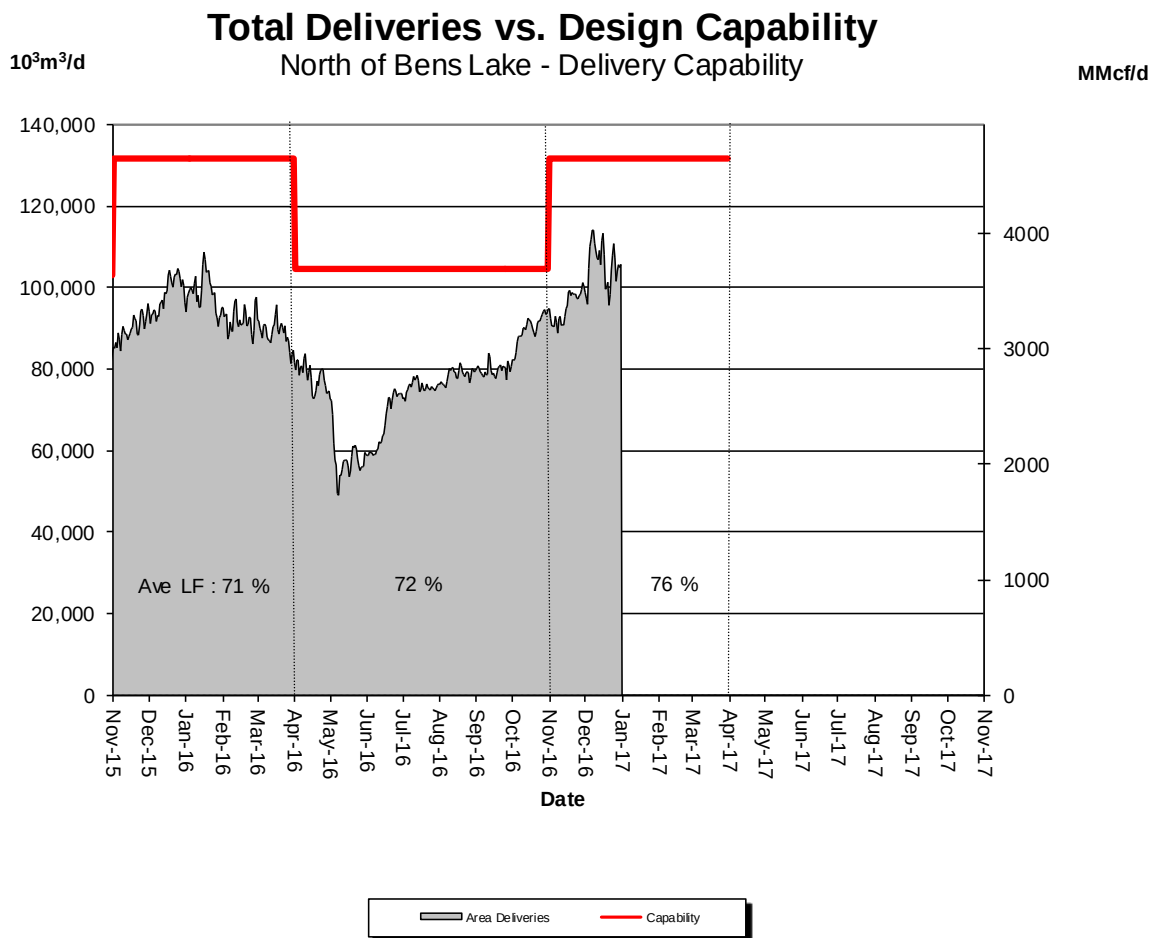
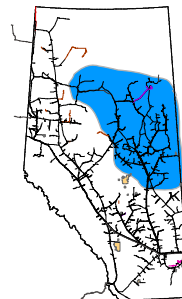
DESIGN CAPABILITY UTILIZATION

KIRBY AREA – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	82%	82%	86%	86%	88%	92%

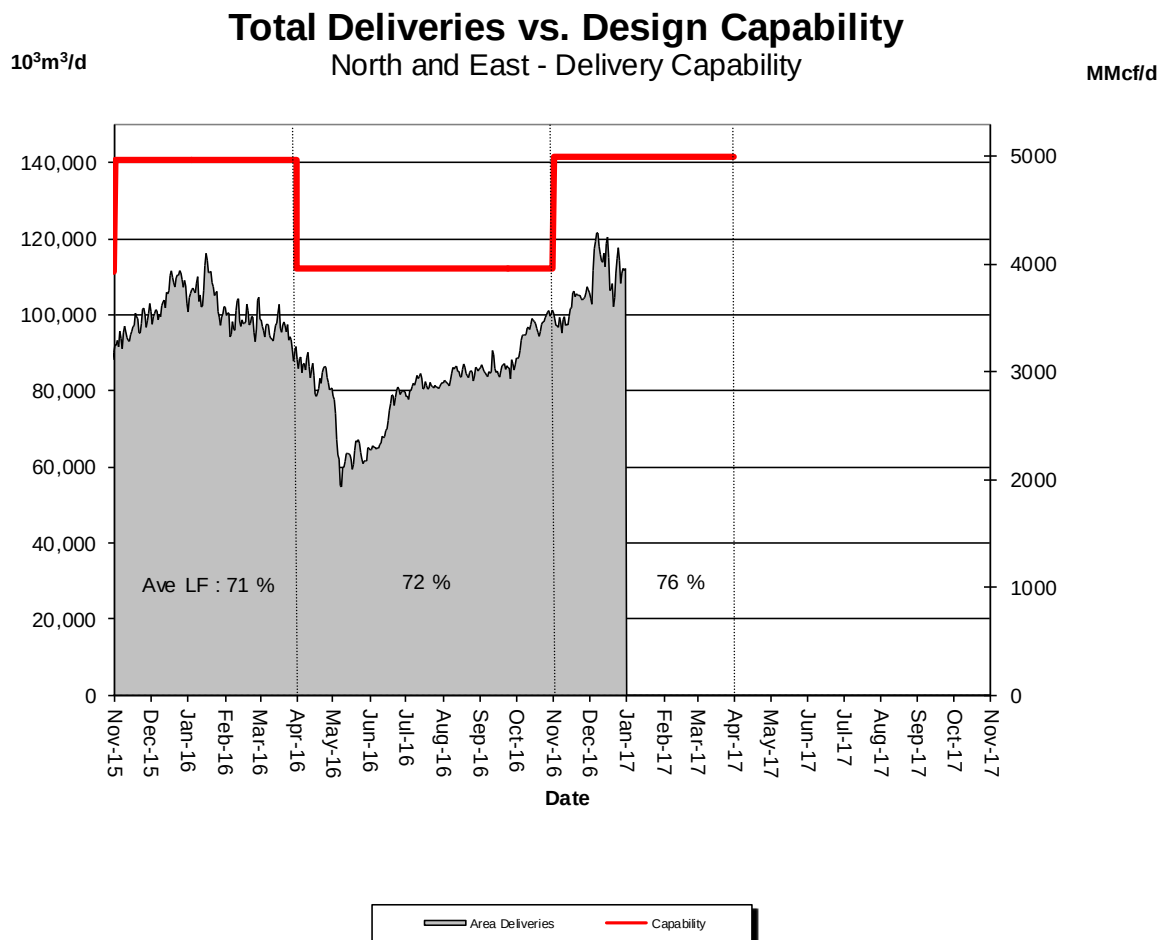
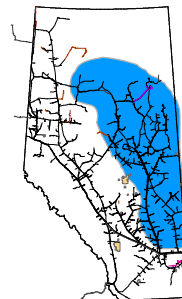
DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	72%	75%	76%	86%	72%	80%

DESIGN CAPABILITY UTILIZATION

NORTH & SOUTH OF BENS LAKE – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jul	Aug	Sep	Oct	Nov	Dec
	72%	75%	76%	86%	72%	80%

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.transcanada.com/customerexpress/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.

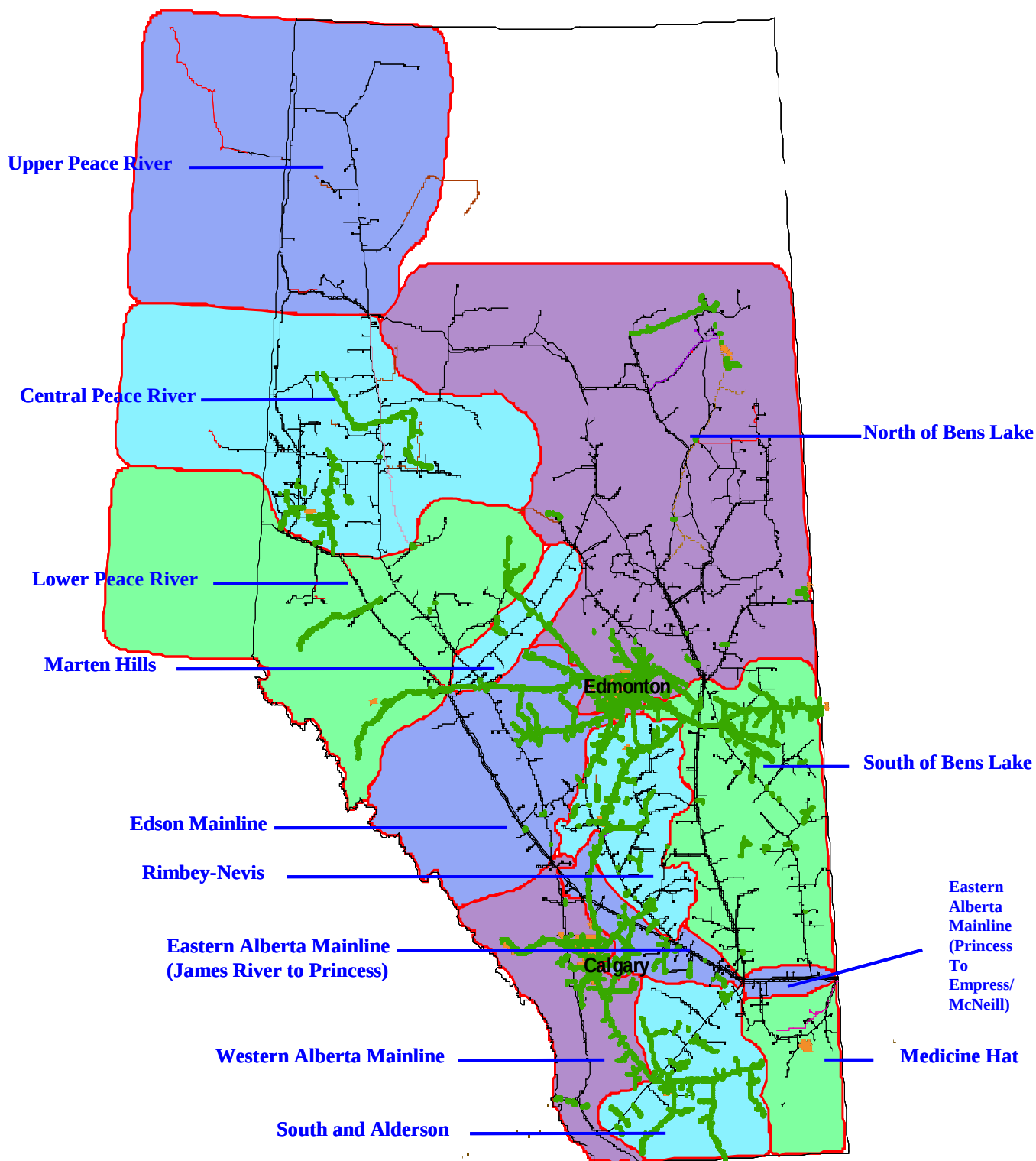
Design Flow Capability utilization is a function of several factors that include:

- 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.

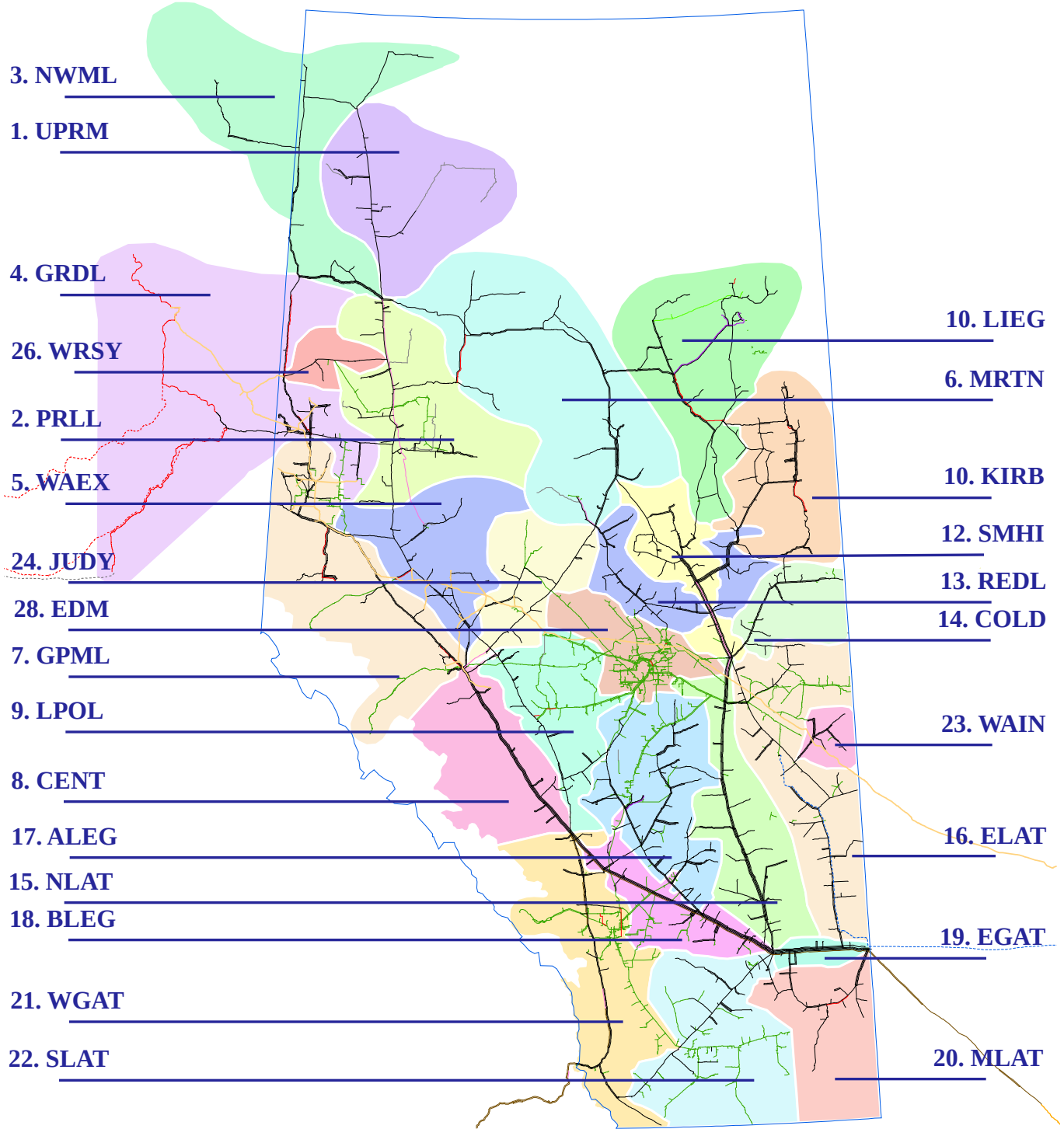
Future Firm Transportation Service Availability

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
