# SYSTEM UTILIZATION AND RELIABILITY MONTHLY REPORT

for the month ending October, 2011

Published date:
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### **Highlights This Month:**

- The commercial integration of ATCO Pipelines (AP) into the Alberta System occurred on October 1, 2011. This utilization report includes the AP flow associated with commercial integration for the data points from October 1, 2011 to October 31, 2011 inclusive. The Alberta area Seasonal Design Capabilities are maintained at pre-integration levels as they apply for the majority of the reported season. New design area and pipeline segments maps, and design area Seasonal Design Capabilities starting November 1, 2011 resulting from AP commercial integration will be presented in next month's utilization report.
- The average actual flow for the dominant flow condition in each of the Alberta design areas will be compared against the corresponding design capability to obtain a measure of pipeline utilization. Consequently, design capability utilization will be measured as Average Actual Flow / Seasonal Design Capability.
- FT Receipt Availability over a 3 month average from August 1, 2011 October 31, 2011 was deemed to be 100% available in all pipe segments.
- Border Availability at Empress/McNeill, Gordondale and Alberta/BC, over a 3 month average from August 1, 2011 October 31, 2011, were all deemed 100% available.
- The Firm Transportation service contract utilization table (page 3 of this report) illustrates the FT and TF + IT utilization for receipts and deliveries.

**NOVA** Gas Transmission Ltd.



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#### FIRM TRANSPORTATION SERVICE<sup>1</sup> CONTRACT UTILIZATION<sup>3</sup>

By NGTL Pipeline Segments October 2011

		Deliv	verv	ery Re			
G	Receipt		Oct CD		Oct CD		
Segment UPRM	FT	Utilization 10%	(TJ/d) 25.4	Utilization 81%	(MMcf/d) 104		
	$FT + IT^2$	10%		90%			
LPRM	FT FT + IT	0% 0%	0.0	90% 93%	1		
PRLL	FT FT + IT	53% 53%	44.3	95% 105%	155		
NWML	FT FT + IT	0% 0%	0.0	94% 100%	394		
GRDL	FT FT + IT	22% 22%	101.0	82% 86%	1,063		
WRSY	FT FT + IT	0% 0%	0.0	80% 95%	30		
WAEX	FT FT + IT	19% 24%	49.2	66% 96%	292		
JUDY	FT FT + IT	17% 17%	4.5	99% 127%	81		
GPML	FT FT + IT	56% 79%	53.3	90% 99%	2,787		
CENT	FT FT + IT	14% 14%	39.2	94% 114%	924		
LPOL	FT FT + IT	22% 22%	622.4	94% 120%	580		
WGAT	FT FT + IT	53% 54%	3,371.8	79% 94%	505		
ALEG	FT FT + IT	37% 45%	371.7	96% 124%	925		
SLAT	FT FT + IT	26% 26%	172.0	96% 116%	254		
MLAT	FT FT + IT	80% 94%	211.9	97% 111%	241		
BLEG	FT FT + IT	54% 54%	221.8	95% 110%	622		
EGAT	FT FT + IT	99% 124%	3,913.9	99% 120%	47		
MRTN	FT FT + IT	25% 25%	35.6	84% 111%	150		
LIEG	FT FT + IT	77% 111%	707.8	65% 112%	50		
KIRB	FT FT + IT	77% 87%	678.5	81% 135%	54		
SMHI	FT FT + IT	40% 40%	11.5	82% 137%	56		
REDL	FT FT + IT	62% 63%	735.4	82% 132%	77		
COLD	FT FT + IT	38% 162%	31.8	77% 109%	39		
EDM	FT FT + IT	13% 13%	0.7	0% 0%	0		
NLAT	FT FT + IT	32% 32%	480.3	95% 122%	204		
WAIN	FT FT + IT	28% 28%	5.6	83% 110%	20		
ELAT	FT FT + IT	51% 52%	200.1	91% 118%	196		
TOTAL SYSTEM	FT FT + IT	68% 79%	12,089.8	90% 106%	9,852		

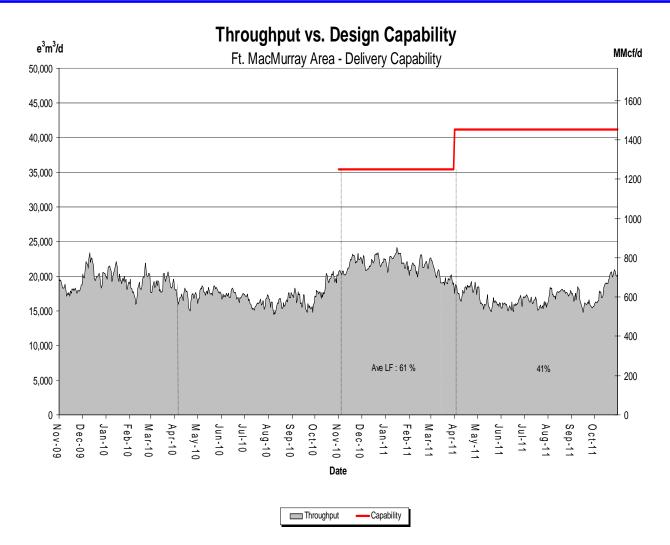
#### \*NOTE:

FT includes all receipt and delivery Firm Transportation Services: FTR, FTRN,
 IT includes all receipt and delivery Interruptible Services: ITR, FRO, ITD1, ITD2,
 Utilization data is based on billed monthly volumes. Percent utilization calculated billed volumes divided by applicable receipt or delivery Contract level.



### DESIGN CAPABILITY UTILIZATION FT. McMURRAY AREA – FLOW WITHIN



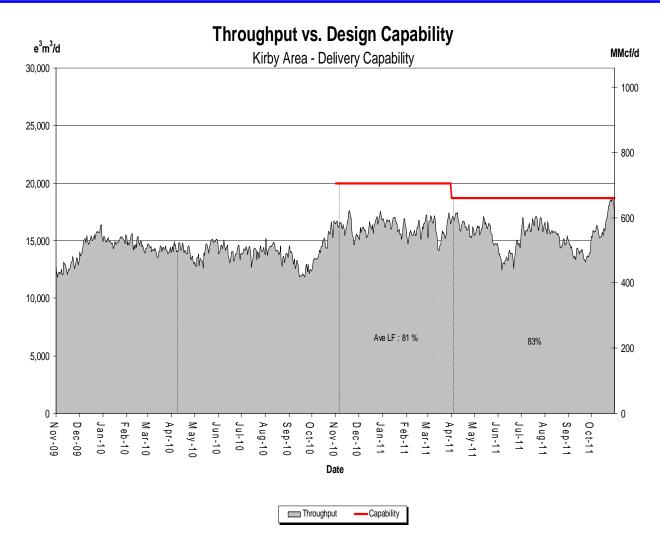


% Design Capability Utilization  Monthly Average Area Deliveries as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	39	39	39	43	40	45



### DESIGN CAPABILITY UTILIZATION KIRBY AREA – FLOW WITHIN



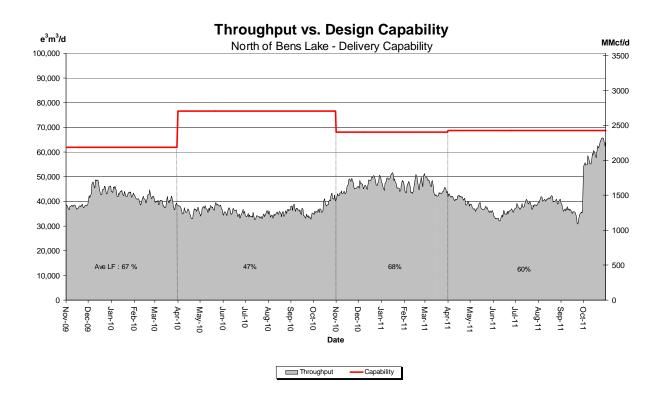


% Design Capability Utilization  Monthly Average Area Deliveries as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	84	74	87	83	75	89



### DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



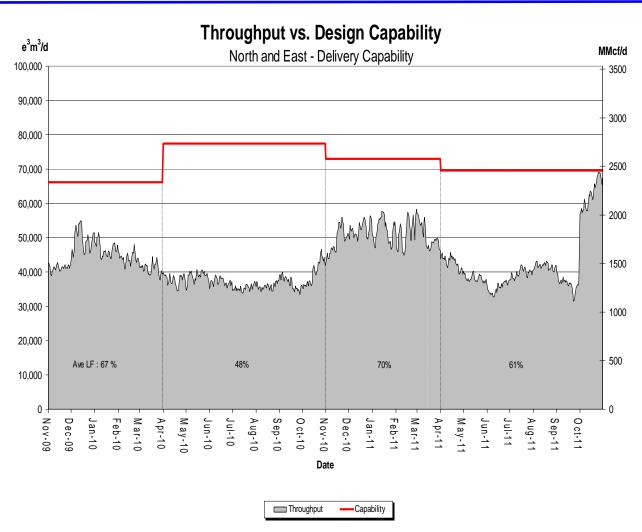


% Design Capability Utilization  Monthly Average Area Deliveries as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	54	51	56	59	52	87



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



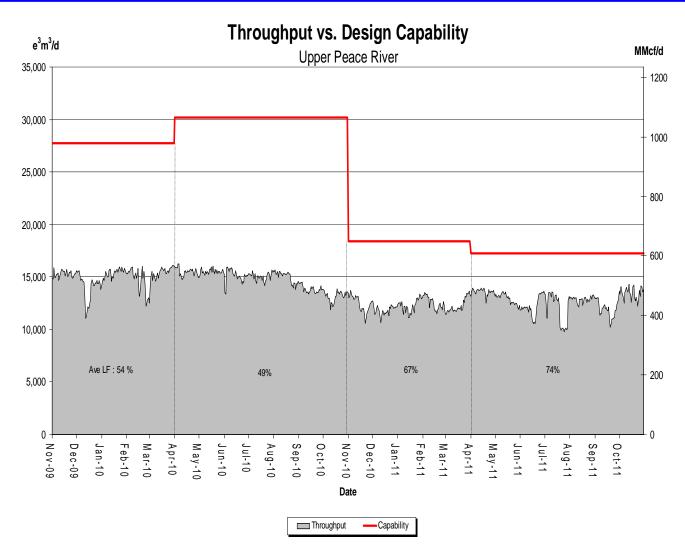


% Design Capability Utilization  Monthly Average Actual Area Deliveries as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	56	55	60	60	55	90



# DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER



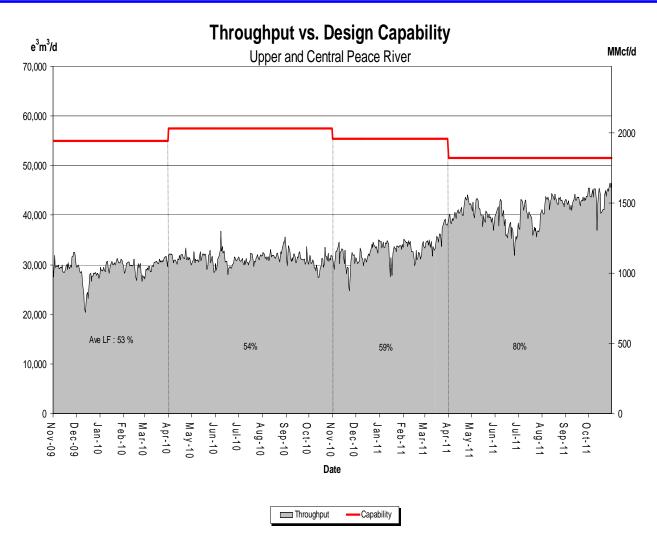


% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	75	71	70	75	69	78



# DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER





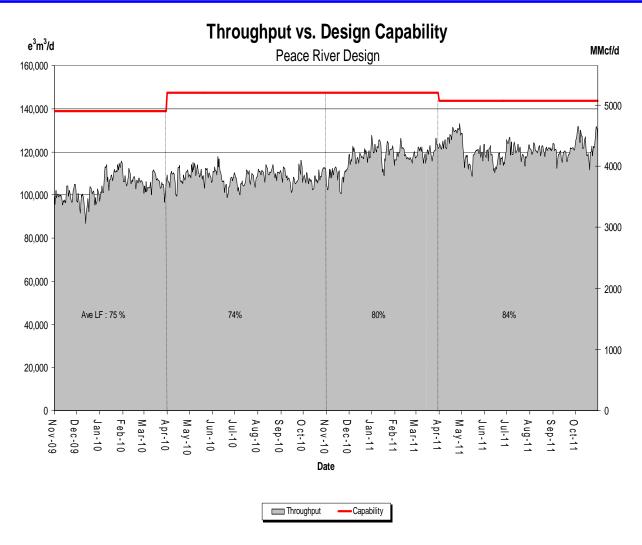
% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	78	74	76	83	83	78



# DESIGN CAPABILITY UTILIZATION PEACE RIVER DESIGN

(Upper, Central and Lower Peace River)



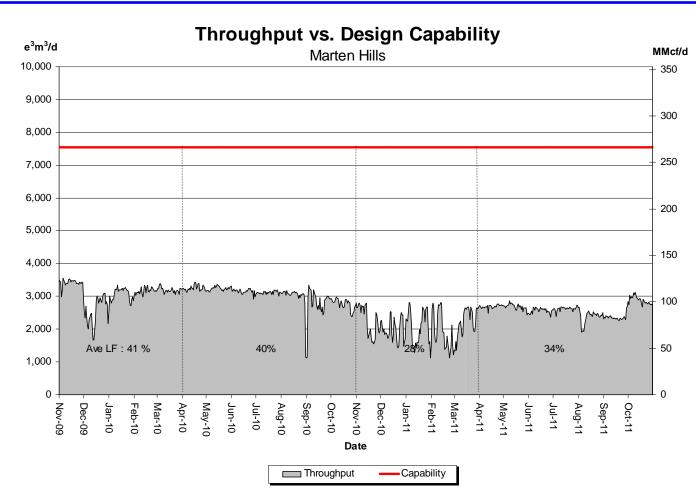


	% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability					
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	82	82	84	84	83	86



# DESIGN CAPABILITY UTILIZATION MARTEN HILLS



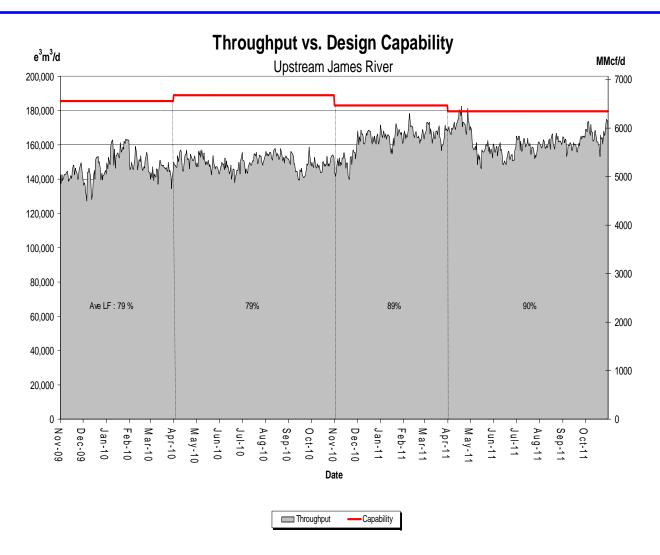


% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability							
Average Flow/	May	Jun	Jul	Aug	Sep	Oct	
Design Capability	36	34	35	32	31	38	



# DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)

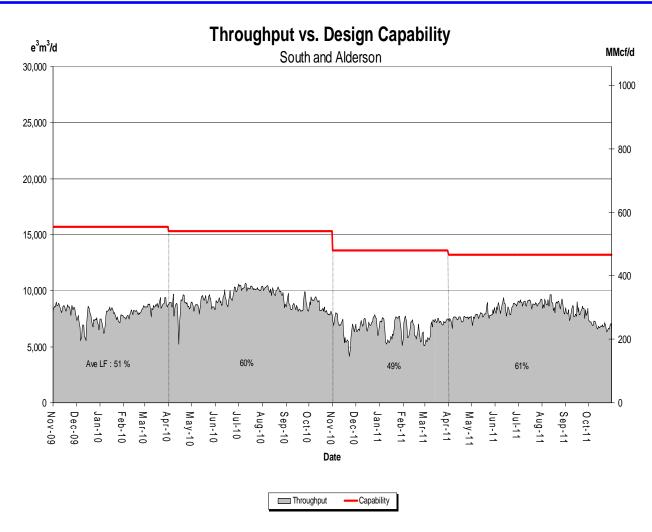


% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	88	86	89	90	90	93



# **DESIGN CAPABILITY UTILIZATION SOUTH and ALDERSON**



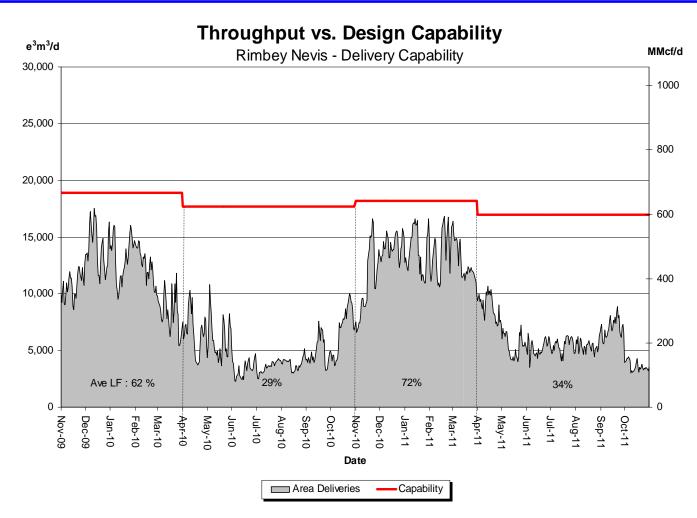


% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability						
Average Flow/	May	Jun	Jul	Aug	Sep	Oct
Design Capability	60	64	68	67	62	52



## **DESIGN CAPABILITY UTILIZATION RIMBEY-NEVIS – FLOW WITHIN**





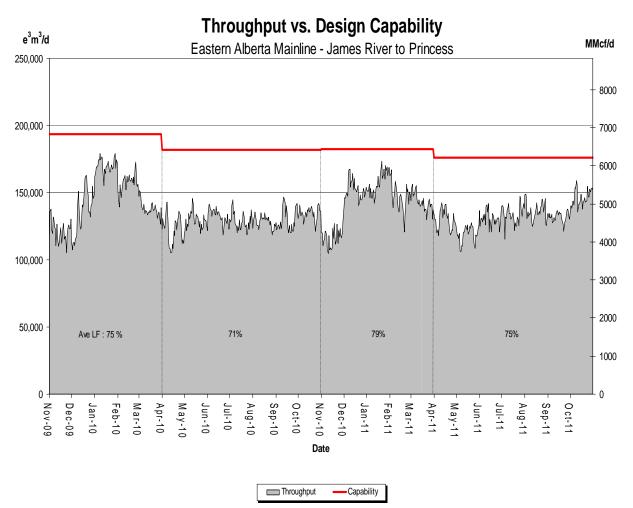
% Design Capability Utilization  Monthly Average Area Deliveries as a Percentage of Design Capability							
Average Flow/	May	Jun	Jul	Aug	Sep	Oct	
Design Capability	32	31	32	32	41	21	



# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE

(James River to Princess)



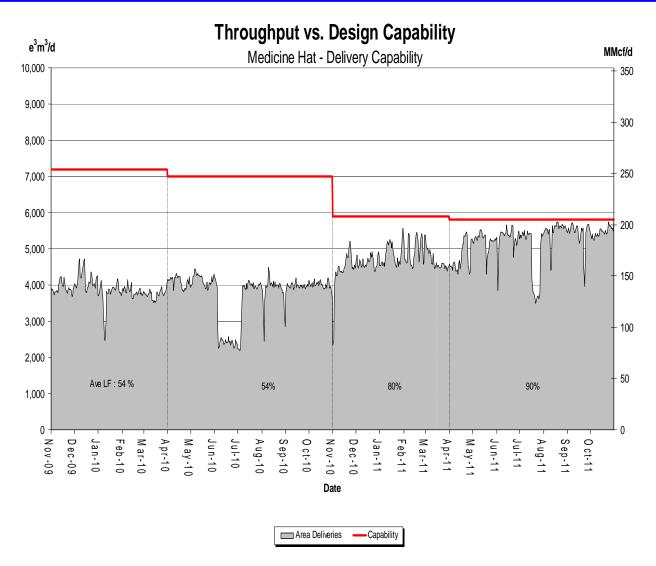


% Design Capability Utilization  Monthly Average Actual Flow as a Percentage of Design Capability							
Average Flow/	May	Jun	Jul	Aug	Sep	Oct	
Design Capability	68	74	76	77	75	83	



# DESIGN CAPABILITY UTILIZATION MEDICINE HAT – FLOW WITHIN





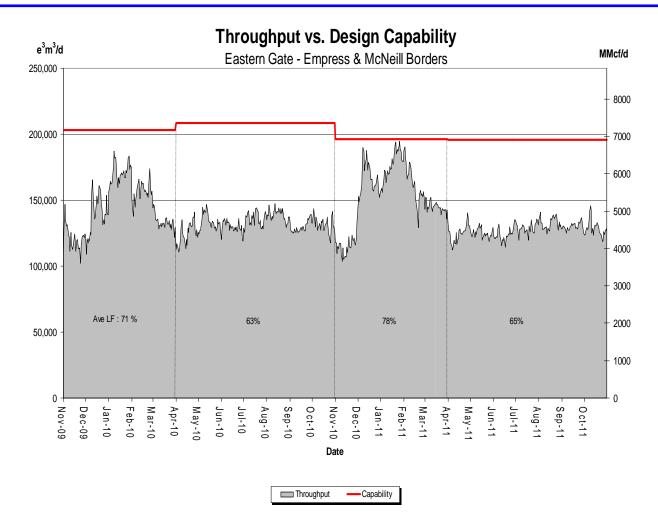
% Design Capability Utilization  Monthly Average Area Deliveries as a Percentage of Design Capability							
Average Flow/	May	Jun	Jul	Aug	Sep	Oct	
Design Capability	90	91	83	95	93	94	



## DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE

(Princess to Empress / McNeill)





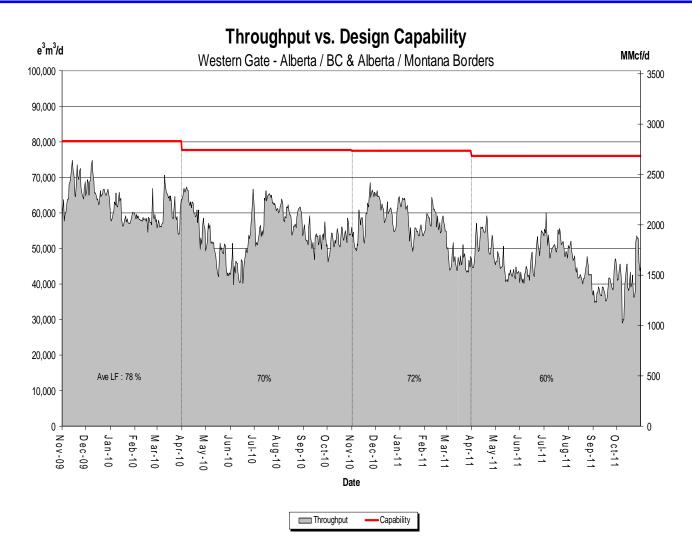
% Design Capability Utilization Average Actual Flow as a Percentage of Design Capability							
Average Flow / Design Capability	May	Jun	Jul	Aug	Sep	Oct	
	64	63	66	68	66	66	



## DESIGN CAPABILITY UTILIZATION WESTERN ALBERTA MAINLINE

(Alberta/B.C. and Alberta/Montana Borders)





% Design Capability Utilization Average Actual Flow as a Percentage of Design Capability							
Average Flow /	May	Jun	Jul	Aug	Sep	Oct	
Design Capability	58	61	68	59	51	55	



### HISTORICAL TRANSPORTATION SERVICE AVAILABILITY

Firm Service

Firm Service

%CD

August 1, 2011 to October 31, 2011 (3 Month Average)

IT-R Service

**Receipt Area** 

Gordondale

100

100

		Available	Available	Restriction	Restri	cted <sup>(1)</sup>	
	Segment	(% of time)	(% of time)	(% of time)	Max	Average	
Peace River	UPRM 1	100	100	0	0	0	
	PRLL 2	100	100	0	0	0	
	NWML 3	100	100	0	0	0	
	GRDL 4	100	100	0	0	0	
	WAEX 5	100	100	0	0	0	
	JUDY 24	100	100	0	0	0	
	WRSY26	100	100	0	0	0	
	LPRM 27	100	100	0	0	0	
	GPML 7	100	100	0	0	0	
entral	CENT 8	100	100	0	0	0	
	LPOL 9	100	100	0	0	0	
orth & East Upstream	LIEG 10	100	100	0	0	0	
of Bens Lake	KIRB 11	100	100	0	0	0	
	MRTN 6	100	100	0	0	0	
	SMHI12	100	100	0	0	0	
	REDL 13	100	100	0	0	0	
	COLD 14	100	100	0	0	0	
ownstream of	NLAT 15	100	100	0	0	0	
Sens Lake	ELAT 16	100	100	0	0	0	
	WAIN 23	100	100	0	0	0	
imbey/Nevis	ALEG 17	100	100	0	0	0	
astern Mainline	BLEG 18	100	100	0	0	0	
	EGAT 19	100	100	0	0	0	
	MLAT 20	100	100	0	0	0	
	SLAT 22	100	100	0	0	0	
Vestern Mainline	WGAT 21	100	100	0	0	0	
Borders		IT-D Service	Firm Service	Firm Service	% CD Re	stricted <sup>(1)</sup>	Causes/Comments (3)
	Available <sup>(2)</sup>	Available <sup>(2)</sup>	Available	Restriction			
	(% of time)	(% of time)	(% of time)	(% of time)	Max	Average	
Empress/McNeill		100	100	0	0	0	
Alberta-BC		100	100	0	0	0	
Cardandala		100	100	_	_		



Causes/Comments (3)

## FUTURE FIRM TRANSPORTATION SERVICE AVAILABILITY (MAINLINE RESTRICTIONS)

## **Export Firm Transportation Guidelines**

Firm	Authorize Firm	To Ensure Firm
Transportation	Transportation	Transportation
Service Type	Service By	Service By
Export Delivery	November 2011	November 2013

### Estimated Firm Transportation Service Availability

Please refer to the following web site for current FT-R Availability Map:

http://www.transcanada.com/customerexpress/docs/ab\_ftr\_availability\_map/external\_map.pdf

## **Receipt Firm Transportation Guidelines**

Firm Transportation Service Type	Authorize Firm Transportation Service By	To Ensure Firm Transportation Service By
Receipt - Summer construction (generally south of Edmonton)	November 2011	November 2013
Receipt - Winter construction (generally north of Edmonton)	November 2011	April 2014

If your needs for firm transportation service arise after the above dates to "Authorize Firm Transportation Service By", NGTL will evaluate your new receipt firm transportation service or firm service transfer requests on a date-stamped basis.

Please consult with your Customer Sales Representative to discuss your Firm Transportation Service needs.



### 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, and the availability of transportation services as an indication of system reliability.

Data is reported either by *Pipeline Segment* (26 on the system) or *Design Area* (13 on 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 26NGTL 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 for each season. Data used in these reports lags the current date by 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.
- Effect of scheduled maintenance on actual flow requirement in a design area at any given time.
- Design assumptions used in determining required segment flow requirement.



### HOW TO USE THIS REPORT - continued

#### **Historical Transportation Service Availability**

Transportation Service Availability is a system utilization measure that identifies the degree to which firm and interruptible transportation services are available on the NGTL system. It includes the historical frequency of service restriction experienced by the gas transmission network by service type and by pipeline segment.

The data shows the percentage of a given time period that a service type was available for a given section of the system. Service availability less than 100 percent means that some level of transportation service has been restricted for a portion of the time period.

Priority of transportation service on the NGTL system is firm transportation service, and then interruptible (IT). If transportation is restricted within a segment, all service within that segment of a lower priority will be affected.

Service availability is affected by a number of factors including scheduled and unscheduled maintenance, construction or other outages.

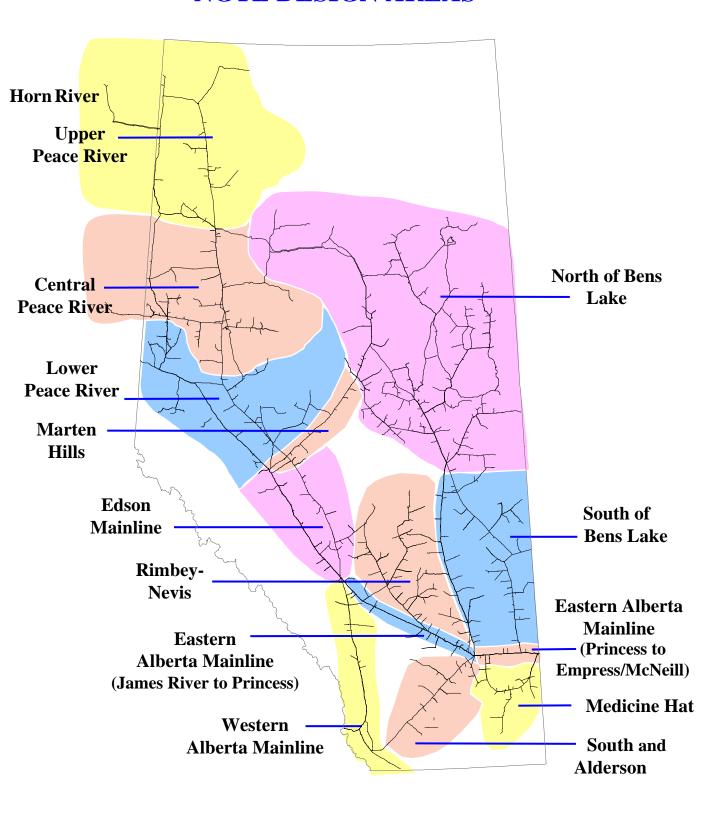
As a monthly feature the Historical Transportation Service Availability is shown as a three-month rolling average of transportation availability.

#### **Future Firm Transportation Service Availability**

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

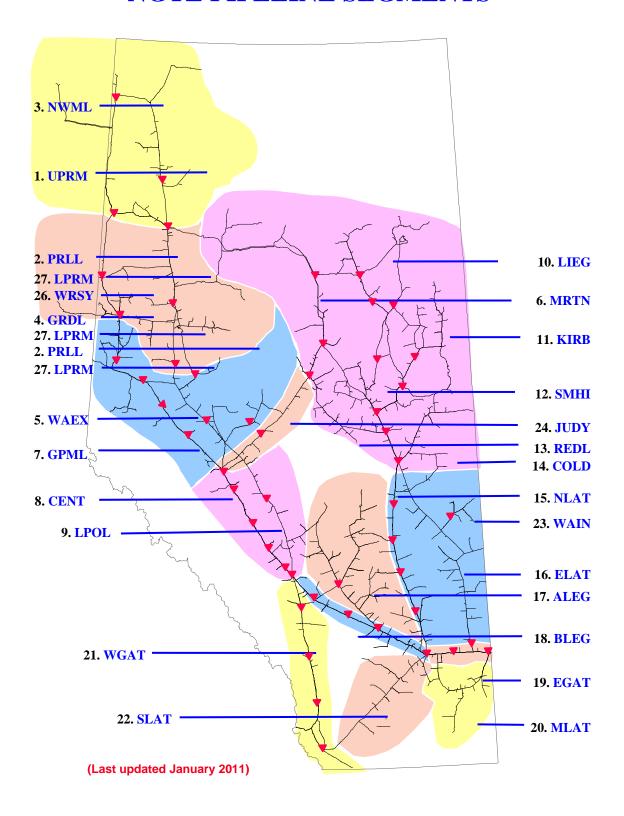


### **NGTL DESIGN AREAS**





### **NGTL PIPELINE SEGMENTS**





### **DEFINITION OF TERMS**

### Design Capability Utilization

#### Actual Flow

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

#### Design Capability

The volume of gas that can be transported at various points on the pipeline system considering 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-Alberta 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.

### Historical Transportation Service Availability

#### Average % CD Restricted

The average percentage of the entire segment receipt contract demand restricted during periods of restriction.

#### Firm Service Available

The percentage of time that all requested firm transportation service requests were transported within a segment.

#### Firm Service Restriction

Percentage of time firm service is restricted.

#### IT-2 Service Available

The percentage of time that IT-2 service requests were transported.

#### Max % CD Restricted

The maximum percentage to which the entire segment contract demand was restricted.

### Other

#### System Load Factor

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

