



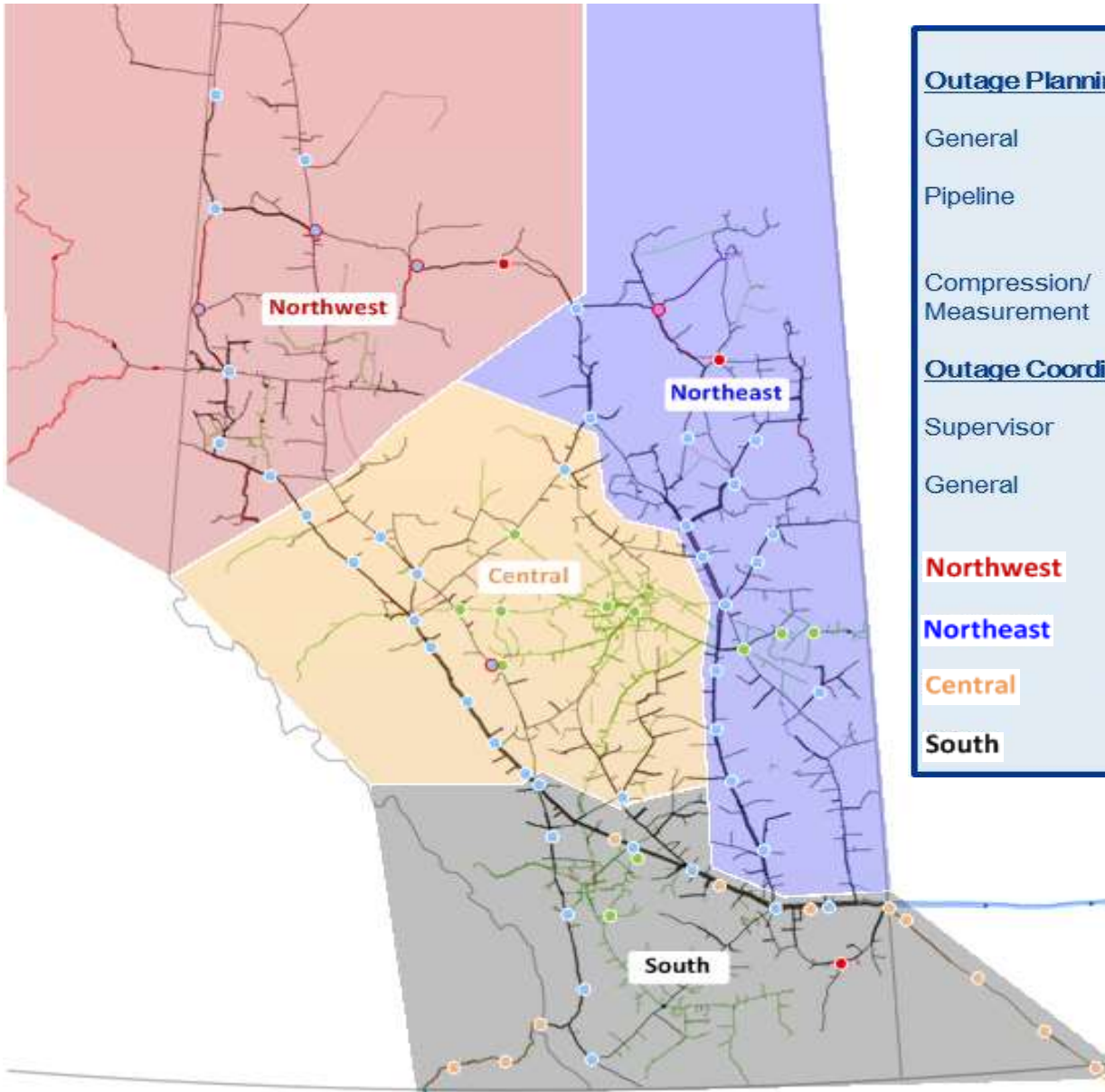
Monthly Outage Forecast

March, 2016

March Monthly Outage Forecast

The Monthly Outage Forecast is a tool provided by TransCanada to show the estimated operational capability. This information is provided 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. Please note, only known and planned outages at the time of publishing will be included in the Monthly Outage Forecast. As new outages are planned they will be added to subsequent MOF reports.

NGTL MAP



Outage Planning

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Pipeline	Mike Wylie Rahim Ruda	403.920.7346 403.920.6360
Compression/ Measurement	Bruce Hansen	403.920.5613

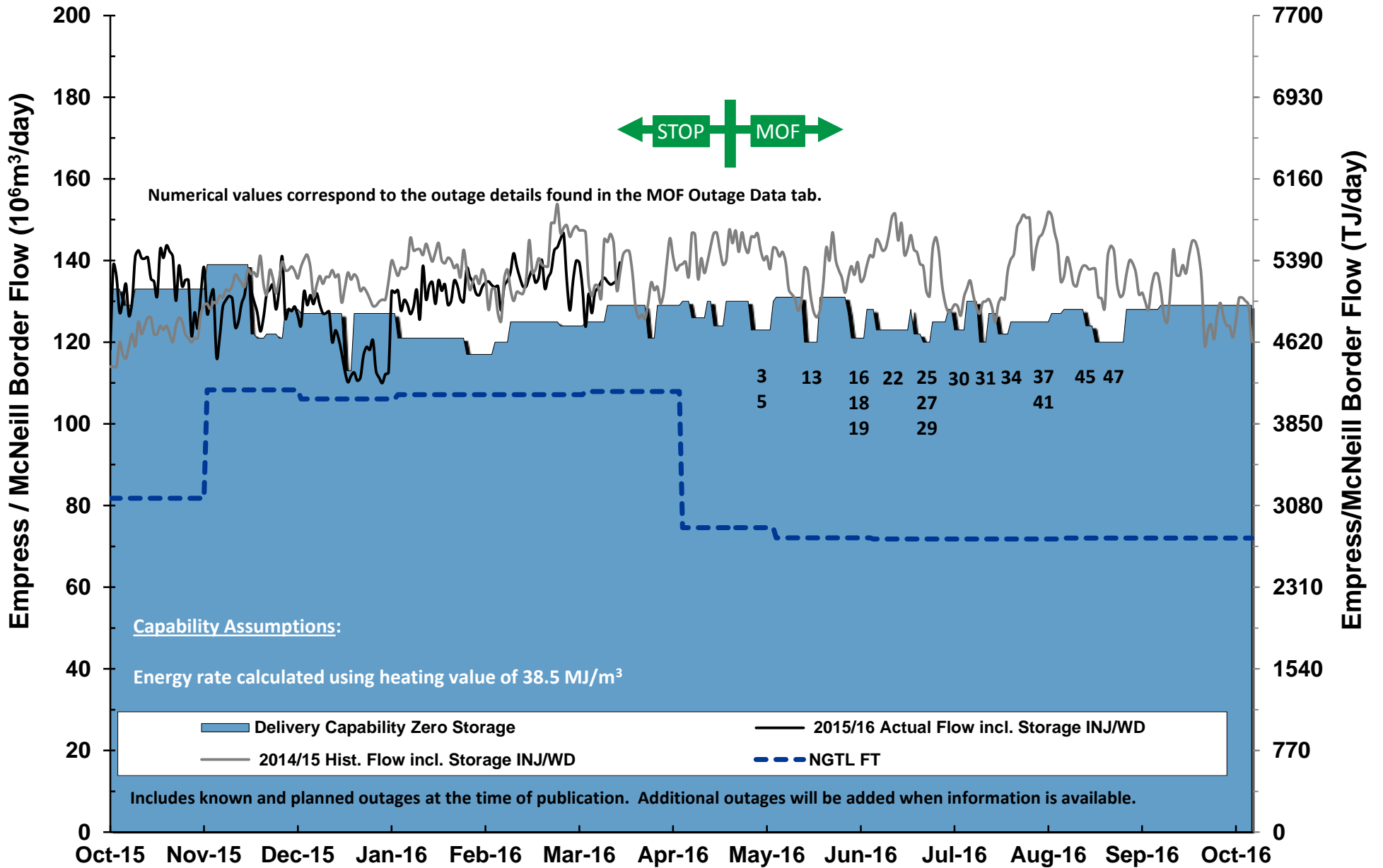
Outage Coordination

Supervisor	Jeff Stoffregen	403.920.6337
General	Chuang Li Ashley Lim	403.920.5291 403.920.6669
Northwest	Andrea Watters	403.920.7638
Northeast	Brooke Dillabough	403.920.5144
Central	Chris Pho	403.920.6016
South	Damola Daramola	403.920.6604

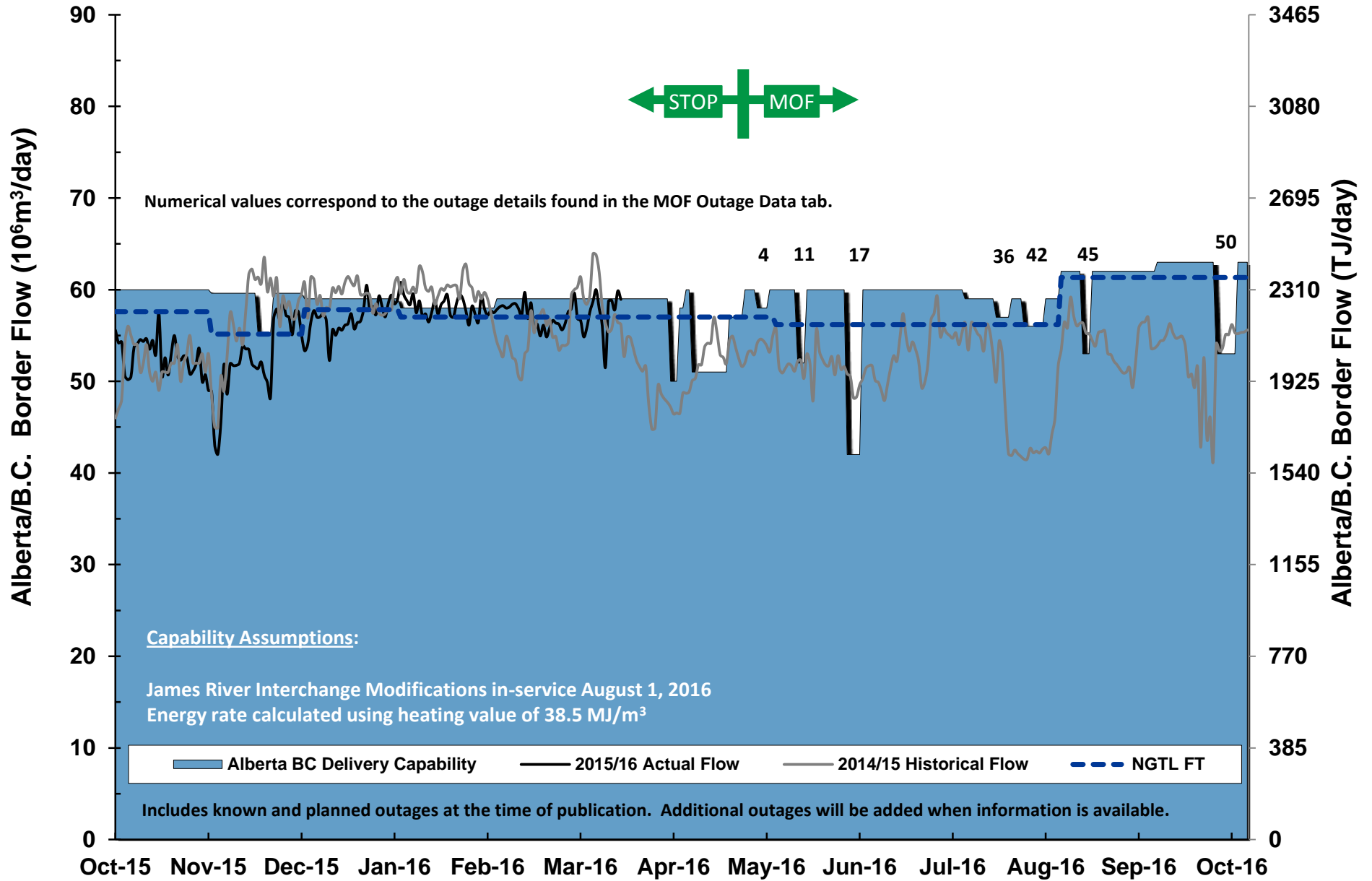
For NGTL System Facilities Segment codes please view link below

http://www.transcanada.com/customerexpress/docs/fh_system_maps/AB_System_Map_2015_Segments_Rev18.pdf

Empress/McNeill Border



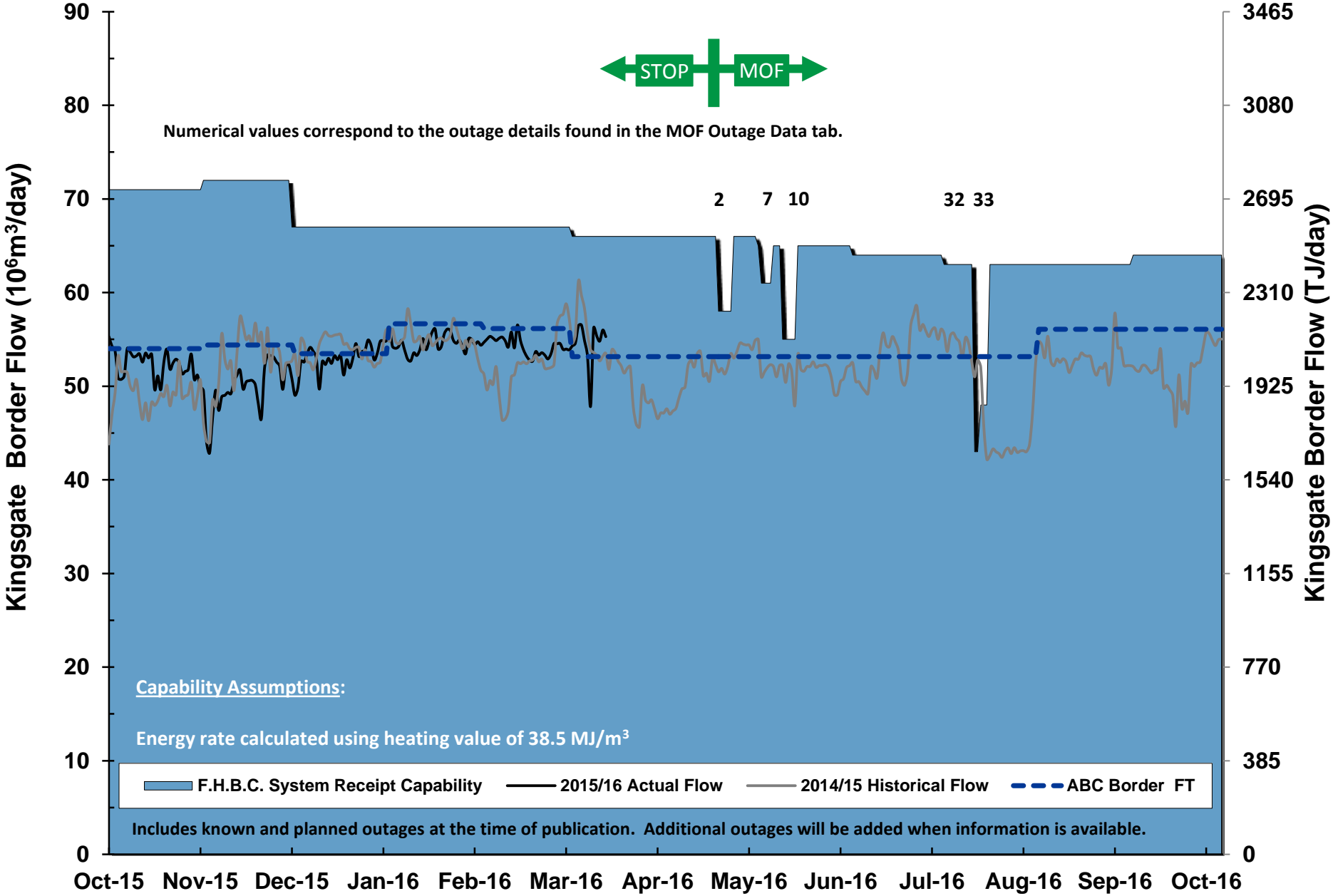
Alberta/B.C. Border



Kingsgate Border



Numerical values correspond to the outage details found in the MOF Outage Data tab.



Capability Assumptions:

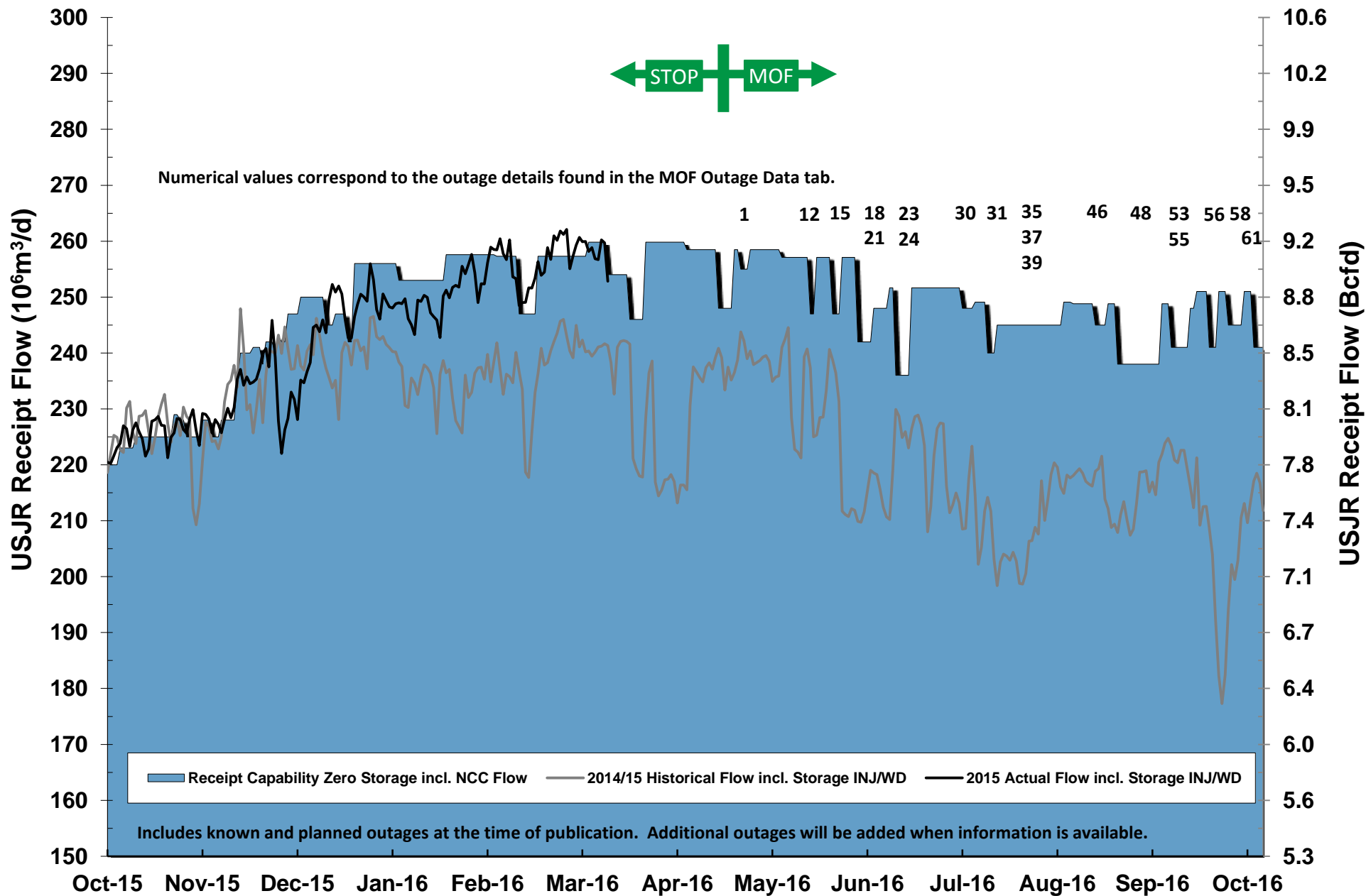
Energy rate calculated using heating value of $38.5 \text{ MJ}/\text{m}^3$

- F.H.B.C. System Receipt Capability
- 2015/16 Actual Flow
- 2014/15 Historical Flow
- ABC Border FT

Includes known and planned outages at the time of publication. Additional outages will be added when information is available.

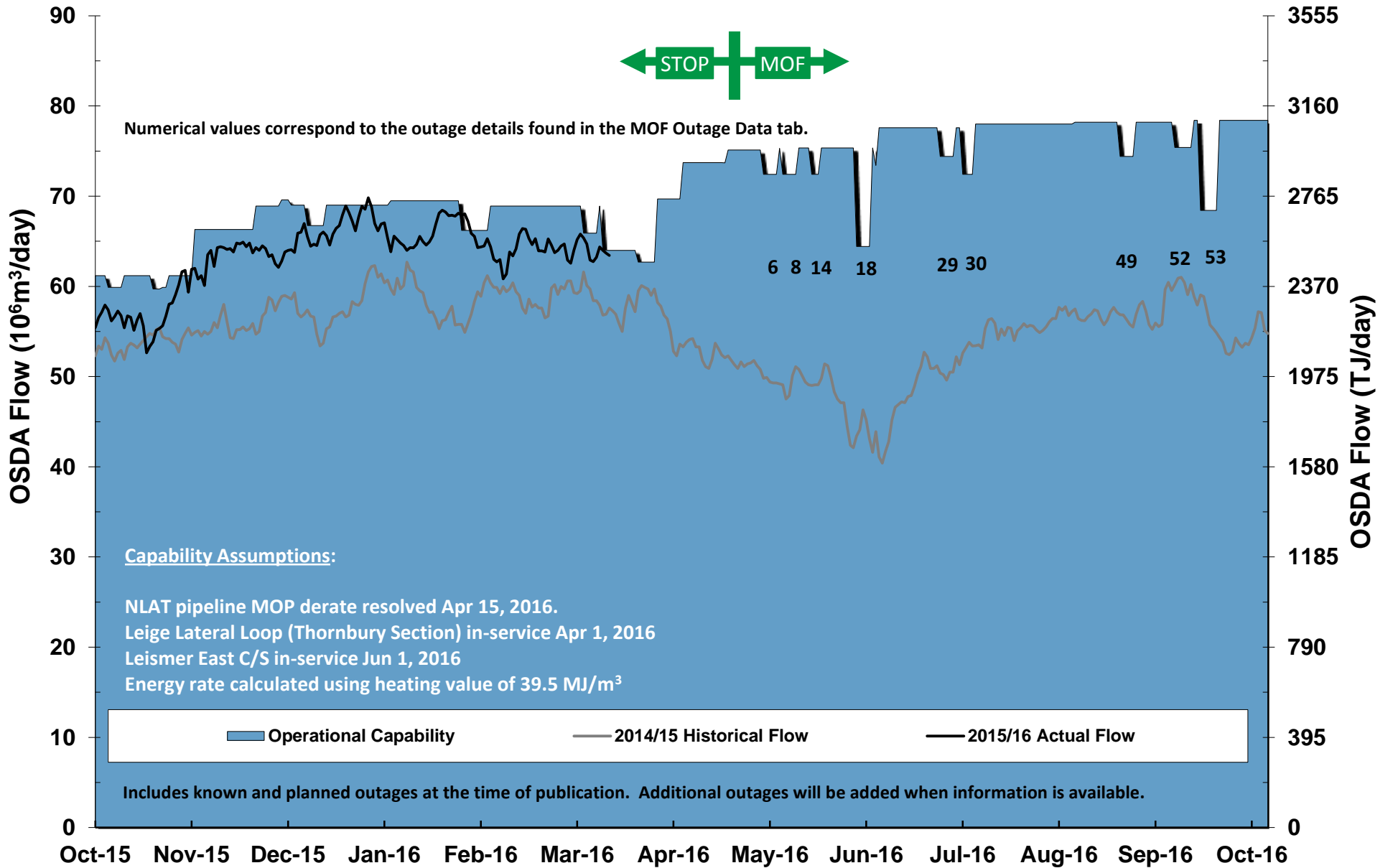
Upstream of James River Outlook

Segments 1,2,3,4,5,7,8,9,24,26, partial 28



Oil Sands Delivery Area (OSDA) Outlook

Segments 10, 11,14



	SEG	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
	#		START	FINISH			
1	8	Vetchland C/S - Station Maintenance (3 days).	04/18/16	04/20/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 255 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
2	21	Elko C/S - Station Maintenance (5 days).	04/18/16	04/22/16	Potential IT/FT receipt restriction on FHBC. Capability 58 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
3	19	NPS 42 Eastern Alberta Mainline Loop #3 - Pipeline Maintenance (7 days).	04/23/16	04/29/16	Potential IT/FT delivery restriction at EGAT. Capability 123 E6m3/d. Typical Flow 125-135 E6m3/d.	Damola Daramola	EGAT
4	21	Turner Valley #1 - Unit Maintenance (4 days).	04/25/16	04/28/16	Potential IT/FT delivery restriction at ALTBC. Capability 58 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
5	18	Princess B #6 C/S - Station Maintenance (5 days).	04/25/16	04/29/16	Potential IT/FT delivery restriction at EGAT. Capability 126 E6m3/d. Typical 125 - 135 e6m3/d	Damola Daramola	EGAT
6	12	NPS 16 Kirby Lateral Loop - Pipeline Modifications (5 days). Dates revised	04/26/16	04/30/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
7	21	Crowsnest A Unit #K - Unit Maintenance (4 days).	05/02/16	05/05/16	Potential IT/FT receipt restriction on FHBC. Capability 61 E6m3/d. Typical flow 40 - 65 E6m3/d	Damola Daramola	FHBC
8	15	Dusty Lake, Gadsby A & B C/S - Station Maintenance (5 days).	05/02/16	05/06/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
9	20	NPS 10 Etzikom Lateral - Pipeline Maintenance (6 days)	05/03/16	05/07/16	Nil required at Saamis Sales, South Saskatchewan River, Bullshead, Murray Lake, Etzikom A, Etzikom B, Etzikom D. Typical flow 350 E3m3/d.	Chris Pho	Local
10	21	Moyie C/S - Station Maintenance (5 days).	05/09/16	05/13/16	Potential IT/FT receipt restriction on FHBC. Capability 55 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
11	21	Turner Valley C/S - Station Maintenance (3 days).	05/09/16	05/11/16	Potential IT/FT delivery restriction at ALTBC. Capability 52 E6m3/d. Typical flow 50-63 E6m3/d.	Damola Daramola	ALTBC

C/S Compressor Station
M/S Meter Station
Shade - indicates new or changed
Inquiries? Contact info in outages above.

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	#		START	FINISH			
12	7	Berland River C/S - Station Maintenance (2 days). Dates revised	05/09/16	05/10/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 247 E6m3/d, Typical Flow 230-260 E6m3/d.	Andrea Watters	USJR
13	18	NPS 36 Eastern Alberta System (EAS) Mainline Loop #2 - Pipeline Maintenance (5 days).	05/10/16	05/14/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical flow 125-135 E6m3/d.	Chris Pho	EGAT
14	6	Paul Lake A & B C/S - Station Maintenance (3 days) Dates revised	05/11/16	05/13/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
15	8	Swartz Creek C/S - Station Maintenance (3 days). New	05/17/16	05/19/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 247 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
16	18	Schrader Creek #3 - Station Maintenance (3 days).	05/24/16	05/26/16	Potential IT/FT delivery restriction at EGAT. Capability 127 E6m3/d, Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
17	18	NPS 36 Foothills Pipeline Zone 7 - Pipeline Modifications. (5 days within window). New	05/24/16	06/10/16	Potential IT/FT delivery restriction at ALTBC. Capability 42 E6m3/d, Typical flow 55-60 E6m3/d.	Damola Daramola	ALTBC
18	3	NPS 48 Tanghe Creek Lateral Loop 2 & Chinchaga Loop 3 - Pipeline Maintenance (5 days).	05/25/16	05/29/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 63 E6m3/d. Typical flow 60-70 E6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 242 E6m3/d, Typical Flow 230-260 E6m3/d. Potential IT/FT delivery at EGAT. Capability 121 E6m3/d. Typical 125-135 e6m3/d	Andrea Watters	OSDA USJR EGAT
19	18	NPS 34 Eastern Alberta System (EAS) Mainline- Pipeline Maintenance (7 days). New	05/25/16	05/31/16	Potential IT/FT delivery restriction at EGAT. Capability 128 E6m3/d. Typical 125 - 135 e6m3/d	Damola Daramola	EGAT
20	16	NPS 10 Irish Lateral - Pipeline Modifications (7 days). Dates and duration revised	05/25/16	06/03/16	Nil required at Irish and Morecambe . Typical flow 230 E3m3/d. Nil required at Elk Point and Landon Lake Sales. Typical flow 30 E3m3/d.	Rahim Ruda	Local
21	8	Wolf Lake C/S - Station Maintenance (5 days).	05/30/16	06/03/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR

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	#		START	FINISH			
22	18	NPS 42 Edson & Central Alberta System (CAS) Mainline Loop - Pipeline Maintenance (11 days).	06/02/16	06/12/16	Potential IT/FT delivery restriction at EGAT. Capability 123 E6m3/d. Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
23	7	Gold Creek C/S - Station Maintenance (5 days). Capacity Revised	06/06/16	06/10/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 236 E6m3/d, Typical Flow 230-260 E6m3/d.	Andrea Watters	USJR
24	9	Lodgepole C/S - Station Maintenance (5 days). Dates revised	06/06/16	06/10/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 251 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
25	18	Hussar A & B C/S - Station Maintenance (3 days).	06/14/16	06/16/16	Potential IT/FT delivery restriction at EGAT. Capability 122 E6m3/d, Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
26	7	NPS 24 Cutbank Lateral Loop - Pipeline Maintenance (7 days). New	06/14/16	06/23/16	Potential IT/FT receipt restriction at Musreau Lake, Musreau Lake West, Musreau Lake No 2, Cutbank River, Copton Creek, Narraway River, Nose Mountain and Bilbo meter stations. Capability 9-14 e6m3/d Typical Flow: 15-20 e6m3/d Nil required at Wapiti Centre Sales and Wapiti South Sales. Typical flow 60 e3m3/d	Andrea Watters	Local
27	18	NPS 48 Edson Mainline Loop #3 - Pipeline Modifications (7 days within window).	06/15/16	06/30/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
28	15	NPS 8 Castor Lateral - Pipeline Modifications (6 days within window).	06/15/16	06/30/16	Nil required at Castor. Typical flow 130 E3m3/d.	Rahim Ruda	Local
29	6	Woodenhouse B2 C/S - Station Maintenance (5 days).	06/20/16	06/24/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 73 E6m3/d. Typical flow 60-70 E6m3/d. Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical 125-135 e6m3/d	Brooke Dillabough	OSDA EGAT
30	6	Otter Lake C/S - Station Maintenance (4 days).	06/27/16	06/30/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 248 E6m3/d, Typical Flow 230-260 E6m3/d. Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical flow 60-70 E6m3/d. Potential IT/FT delivery restriction at EGAT. Capability 123 E6m3/d. Typical 125-135 e6m3/d	Andrea Watters	USJR OSDA EGAT
31	8	Clearwater C/S - Station Maintenance (3 days).	07/05/16	07/07/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical 125-135 e6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 240 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	EGAT USJR

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	#		START	FINISH			
32	21	Crowsnest A & B C/S - Station Maintenance (2 days).	07/11/16	07/12/16	Potential IT/FT receipt restriction on FHBC. Capability 43 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
33	21	Crowsnest A C/S - Station Maintenance (5 days).	07/11/16	07/15/16	Potential IT/FT receipt restriction on FHBC. Capability 48 E6m3/d. Typical flow 40 - 65 E6m3/d.	Damola Daramola	FHBC
34	18	Acme C/S - Station Maintenance (4 days).	07/11/16	07/14/16	Potential IT/FT delivery restriction at EGAT. Capability 122 E6m3/d, Typical flow 125-135 E6m3/d.	Damola Daramola	EGAT
35	8	Nordegg C/S - Station Maintenance (18 days).	07/11/16	07/28/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
36	21	Schrader Creek #2 - Unit Maintenance (5 days).	07/11/16	07/15/16	Potential IT/FT delivery restriction at ALTBC. Capability 57 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
37	18	NPS 48 Edson Mainline Loop #3 - Pipeline Modifications (7 days).	07/12/16	07/18/16	Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical 125-135 e6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	EGAT USJR
38	12	NPS 10 Baptiste Lateral - Pipeline Modifications (6 days within window).	07/15/16	07/31/16	Nil required at Spear Lake. Typical flow 20 E3m3/d.	Rahim Ruda	Local
39	8	Clearwater #1 - Unit Maintenance (4 days).	07/18/16	07/21/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
40	21	NPS 18/20 Waterton Montana Lateral Loop - Pipeline Maintenance (7 days).	07/18/16	07/24/16	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3. Typical flow 1500- 2500 E3.	Damola Daramola	Local
41	18	NPS 48 Eastern Alberta System (EAS) Mainline Loop #4 - Pipeline Maintenance (7 days).	07/19/16	07/25/16	Potential IT/FT delivery restriction at EGAT. Capability 125 E6m3/d. Typical 125-135 e6m3/d	Rahim Ruda	EGAT
42	21	NPS 36 Western Alberta System (WAS) Mainline - Pipeline Maintenance (7 days). Dates revised	07/20/16	07/26/16	Potential IT/FT delivery restriction at ALTBC. Capability 56 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC

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			START	FINISH			
43	21	Drywood C/S - Station Maintenance (3 days).	07/26/16	07/28/16	Potential IT/FT delivery restriction at Alberta Montana Border. Capability 2500 E3m3/d. Typical flow 1500- 2500 E3m3/d.	Damola Daramola	Local
44	24	NPS 10 Greencourt Lateral - Pipeline Maintenance (11 days). Dates and duration revised	08/03/16	08/13/16	Nil required at Greencourt. Typical flow 20 E3m3/d.	Rahim Ruda	Local
45	18	Schrader Creek East & West - Station Maintenance (3 days). New	08/08/16	08/10/16	Potential IT/FT delivery restriction at EGAT. Capability 124 E6m3/d, Typical flow 125-135 E6m3/d. / Potential IT/FT delivery restriction at ALTBC. Capability 53 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	EGAT ALTBC
46	4	Alces River C/S - Station Maintenance (4 days).	08/08/16	08/11/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-260 E6m3/d.	Andrea Watters	USJR
47	18	NPS 42 Foothills Pipeline Zone 6 - Pipeline Maintenance (10 days). Dates revised	08/11/16	08/20/16	Potential IT/FT delivery restriction at EGAT. Capability 120 E6m3/d. Typical flow 125-135 E6m3/d.	Chris Pho	EGAT
48	8	Swartz Creek C/S - Station Maintenance (12 days). Dates revised	08/15/16	08/28/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 238 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
49	12	NPS 24 Flat Lake Lateral Loop #3 - Pipeline Modifications (5 days within window). Capacity revised	08/15/16	08/30/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 73 E6m3/d. Typical flow 60-70 E6m3/d.	Rahim Ruda	OSDA
50	21	NPS 42 Western Alberta System (WAS) Mainline Loop - Pipeline Modifications (6 days).	08/17/16	08/22/16	Potential IT/FT delivery restriction at ALTBC. Capability 60 E6m3/d, Typical flow 55-60 E6m3/d.	Chris Pho	ALTBC
51	19	NPS 42 Foothills Pipeline Zone 9 - Pipeline Maintenance (7 days).	08/23/16	08/30/16	Potential IT/FT receipt restriction in SK. Capability 35-50 E6, typical flow 40-45 E6.	Damola Daramola	FHSK
52	6	NPS 24 Peerless Lake Lateral Loop - Pipeline Modifications (6 days within window). Capacity revised	09/01/16	09/15/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 74 E6m3/d. Typical flow 60-70 E6m3/d.	Rahim Ruda	OSDA
53	12	NPS 30 Paul Lake Crossover - Pipeline Modifications (6 days within window). Capacity revised	09/01/16	09/15/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 67 E6m3/d. Typical flow 60-70 E6m3/d. Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 240 E6m3/d, Typical Flow 240-260 E6m3/d.	Rahim Ruda	OSDA USJR

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	#		START	FINISH			
54	8	NPS 42 Foothills Pipeline Zone 6 - Pipeline Maintenance (8 days). Dates revised	09/07/16	09/15/16	Potential IT/FT delivery restriction at EGAT. Capability 125-135 E6m3/d. Typical 125-135 e6m3/d	Damola Daramola	EGAT
55	5	Knight C/S - Station Maintenance (2 days). New	09/07/16	09/08/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
56	7	Berland River C/S - Station Maintenance (3 days). Capacity revised	09/13/16	09/15/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 241 E6m3/d, Typical Flow 230-260 E6m3/d.	Andrea Watters	USJR
57	24	NPS 10 Judy Creek Lateral - Pipeline Modifications (6 days within window).	09/15/16	09/30/16	Nil required at Judy Creek and Virginia Hills. Typical flow 300 E3m3/d. Nil required at Sakwatamau Sales. Typical flow 0 E3m3/d.	Rahim Ruda	Local
58	3	Hidden Lake North C/S - Station Maintenance (5 days).	09/19/16	09/23/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 245 E6m3/d, Typical Flow 240-260 E6m3/d.	Andrea Watters	USJR
59	18	NPS 34 Eastern Alberta System (EAS) Mainline Loop - Pipeline Maintenance (7 days).	09/19/16	09/25/16	Potential IT/FT delivery restriction at EGAT. Capability 127 E6m3/d. Typical 125 - 135 e6m3/d	Damola Daramola	EGAT
60	21	NPS 42 Western Alberta System (WAS) Mainline Loop - Pipeline Maintenance (7 days). New	09/20/16	09/26/16	Potential IT/FT delivery restriction at ALTBC. Capability 53 E6m3/d, Typical flow 59-63 E6m3/d.	Damola Daramola	ALTBC
61	7	Latornell C/S - Station Maintenance (4 days).	09/27/16	09/30/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 241 E6m3/d, Typical Flow 230-260 E6m3/d.	Andrea Watters	USJR
62	2	NPS 8 Dunvegan West Lateral - Pipeline Modifications (6 days within window).	10/01/16	10/15/16	Nil required at Dunvegan West and Dunvegan West #2. Typical flow 50 E3m3/d.	Rahim Ruda	Local
63	15	NPS 30 North Lateral Loop #2 - Pipeline Modifications (5 days within window).	10/01/16	10/15/16	Potential IT/FT delivery restriction in Segments 6, 10-16, 23 & 28. Capability 102 E6m3/d. Typical flow 95-105 E6m3/d.	Rahim Ruda	OSDA
64	6	Paul Lake A & B C/S - Station Maintenance (5 days). New	10/03/16	10/07/16	Potential IT/FT delivery restriction in Segments 10, 11 & 14. Capability 71 E6m3/d. Typical flow 60-70 E6m3/d.	Brooke Dillabough	OSDA

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	#		START	FINISH			
65	8	Clearwater #5 - Unit Maintenance (4 days).	10/24/16	10/27/16	Potential IT/FT receipt restriction in Segments 1,2,3,4,5,7,8,9,24,26 and partial 28. Capability 252 E6m3/d, Typical Flow 230-260 E6m3/d.	Chris Pho	USJR
66	10	NPS 30 Fort McKay Mainline - Pipeline Maintenance (7 days). Dates revised	2017	2017	IT/FT delivery restriction required for Horizon Sales, Aurora Sales, Aurora # 2 Sales, Jackpine Creek Sales, Aspen Sales, Wapasu Creek Sales, Kearl Sales and Firebag Sales meter stations. Capability = 13 E6m3/d. Typical flow 15 to 16 E6m3/d.	Brooke Dillabough	Local
67	10	NPS 24 Fort McKay Mainline - Pipeline Maintenance (7 days). Dates revised	2017	2017	IT/FT delivery restriction required for Aspen Sales, Wapasu Creek Sales, Kearl Sales and Firebag Sales meter stations. Capability = 8.3 E6m3/d. Typical flow 10 to 12 E6m3/d.	Brooke Dillabough	Local

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