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December 10, 2018

British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, B.C. V6Z 2N3

Attention: Mr. Patrick Wruck, Commission Secretary and Manager, Regulatory Support

Dear Mr. Wruck:

Re: FortisBC Energy Inc.

2018 Fourth Quarter Gas Cost Report and Rate Changes Effective January 1, 2019 for the Mainland and Vancouver Island Service Area (the Application)

Response to the British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1

On November 23, 2018, FEI filed the Application referenced above. In accordance with BCUC Order G-230-18 setting out the Regulatory Timetable for the review of the Application, FEI respectfully submits the attached response to BCUC IR No. 1.

If further information is required, please contact Doug Richardson at 604-592-7643.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Doug Slater

Attachments

cc (email only): Registered Parties in the FEI Annual Review for 2019 Rates proceeding Ministry of Energy, Mines and Petroleum Resources



No. 1

1	Α.	ENBRIDGE PIPELINE INCIDENT AND RISK TO SUPPLY
2	1.0	Reference: Exhibit B-1, p. 2
3		Risk to natural gas supply
4 5		On page 2, FEI submits that "the midstream costs for 2019 include materially higher forecast costs" are due to the T-South pipeline rupture.
6 7		FEI has published the following statement regarding the impact of the October 9 rupture of the Enbridge-owned natural gas transmission pipeline on FEI's natural gas supply:
8 9 10 11		In the event of a prolonged period of colder than average weather, we could find ourselves in a position where demand is outpacing supply. If this imbalance extends over a number of days, it is possible that large-scale industrial and commercial customers would be faced with short-term curtailment.
12		In FEI's Rate Schedule 43 Streamlined Review, FEI stated:
13 14 15 16		We've secured resources to get us back to a basically alike we had 100 percent firm T-South for the year. We are back from a planning perspective, back to a kind of a normal planning scenario for us by incrementally buying that incremental gas at the Sumas delivery point.
17 18 19 20	Deers	1.1 Please confirm, or explain otherwise, that there is a significant risk to the natural gas supply as a result of the October 9 pipeline rupture that could result in customer curtailment.
21	<u>Respo</u>	nse:

During the period between October 9, 2018 and November 29, 2018, FEI believed there was a significant risk to the natural gas supply in the region, which could have resulted in customer curtailment. This was due to Enbridge's T-South capacity at Huntingdon being restricted between 17 percent and 68 percent of its normal operating pressure during that time frame. However, since that time period the risk has declined for the following reasons:

On November 30, 2018, Enbridge released a shipper notice, expecting the capacity at
 Huntingdon would increase to approximately 1.4 Bcf/day, which is 85 percent of its
 normal operating pressure for the remainder of the winter period.¹ Physically, Enbridge

¹ On November 16, 2018, National Energy Board (NEB) issued an amending order (Order NB-001-2018) increasing Enbridge's 36-inch portion of the T-South pipeline to 85 percent of that segment's 60 day high pressure prior to the incident. On November 30, 2018, the NEB issued another amending order to increase the operating pressure restrictions on the 36-inch pipeline segment 9L2 between



began flowing approximately 1.4 Bcf/day to Huntingdon on December 4, 2018. This
 increase in capacity at Huntingdon compared to October and November levels was
 crucial, as the market enters what is typically the coldest months of the winter season
 (December and January).

The relatively mild weather that the Lower Mainland, Oregon and Washington experienced in November allowed storage assets in the region to maintain reasonable inventory levels heading into December. If November was colder than normal, the region would have been forced to utilize storage assets at a higher than normal level.
 This could have resulted in low inventory levels which would have been a significant risk, given the T-South restrictions at Huntingdon would make it unlikely that the region could replenish storage in time to handle the next cold weather event.

12 Enbridge has scheduled dig and inline inspections periodically in December and January. This 13 will cause T-South capacity at Huntingdon to be temporarily restricted to lower than 85 percent 14 of its normal operating pressure. These inspections are not commonly scheduled in December 15 and January; however, they must be completed now in order to get T-South pipeline capacity 16 back to normal operating pressure in the near future. Therefore, there is still uncertainty and 17 risk to the natural gas supply going forward, especially pending the outcome of Enbridge's dig 18 and inline inspections scheduled in December and January. However, as laid out in this 19 response, FEI believes that the previous level of significant risk to supply has declined.

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- 1.1.1 If confirmed, in the view of FEI, would a higher natural gas rate mitigate the supply risk associated with the October 9 incident by encouraging conservation of gas? Please explain your view.
- 26
- 27 Response:
- 28 This response also addresses BCUC IRs 1.2.1, 1.2.1.1, and 1.2.1.1.1.

In FEI's view, it is possible that higher natural gas rates may encourage conservation of gas but FEI is uncertain to what extent and how quickly such an outcome might occur. As such, FEI is uncertain whether and how much of a higher natural gas rate would sufficiently impact natural gas demand in a short time frame to meaningfully reduce the risk of customer curtailment associated with the October 9 incident. In contrast, preliminary data with respect to FEI's actions

Compressor Station 2 and the Huntingdon Meter Station.



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to encourage customers to voluntarily conserve natural gas appear to indicate that these actions
 have induced a certain level of natural gas conservation already.

3 In the past, FEI has observed correlations between changes in annual demand and changes in 4 customer rates over time. However, these observations cover periods of multiple years as 5 opposed to the multiple months that are relevant for mitigating the risk of customer curtailment 6 associated with the October 9 incident. FEI is aware that various research materials either 7 conduct primary research or represent reviews of numerous third-party studies into price 8 elasticity of natural gas customers. These studies indicate a range of elasticity values across a 9 variety of regions, sectors, and study publication dates. Overall, FEI concludes from these 10 studies that, over a 20-year time horizon, natural gas demand is relatively inelastic to natural 11 gas prices, that natural gas demand should decline with increases in the natural gas price, and 12 that elasticity has not changed materially over time.

In sum, FEI does not have the information that would be required to evaluate price elasticity across a period as short as multiple months. As such, FEI is not able to estimate what change in natural gas rates would be required to encourage customers to reduce demand to levels that would meaningfully reduce the risk of customer curtailment associated with the October 9 incident.

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Β. ALTERNATIVE RATE SETTING PERIOD 1

2 2.0 **Reference:** Exhibit B-1, p. 3; Tab 2, p. 7

Rate Comparison

4 Page 3 of the Application states, "The Storage and Transport Charges calculated under this alternative approach are based on using a 3-month rate setting period; the schedule 5 at ALTERNATIVE Tab 2, Page 7 provides the flow-through calculations of the forecast costs for the January-March 2019 period."

- 8 On page 3 of the Application, FEI states that it recommends the 12-month rate setting period as opposed to the 3-month rate setting period. 9
- 10 2.1 In the view of FEI, is there a correlation between the change in natural gas rates 11 and customer demand? In other words, what is the price elasticity of demand of 12 natural gas rates for FEI's customers?

By FEI's best estimate, what change in natural gas rates, if any, would

be required to encourage customers to reduce demand to levels that

would meaningfully reduce the risk of customer curtailment on a short

What change in the Transportation and Storage rate would be

required to achieve the level indicated in question 2.1.1 above.

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14 **Response:**

15 Please refer to the response to BCUC IR 1.1.1.1.

2.1.1

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- 23 24
- Response:
- 25 Please refer to the response to BCUC IR 1.1.1.1.

term basis?

2.1.1.1

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- 32 Response:
- 33 Please refer to the response to BCUC IR 1.1.1.1.



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Please re-calculate rates using a 6-month rate setting period. In doing so, please replicate ALTERNATIVE Tab 2, Page 7 to reflect flow-through calculations of

Response:

2.2

9 The Storage and Transport Charges are re-calculated using a 6-month rate-setting period as 10 shown below.

forecast costs for the January-June 2019 period.

	FORTISBC ENERGY INC MAINLAND AND VANCOUVER ISLAND SERVICE AREA STORAGE AND TRANSPORT RELATED CHARGES FLOW-THROUGH BY RATE SCHEDULE FOR THE FORECAST 6-MONTH PERIOD JAN 2019 TO JUN 2019 FIVE-DAY AVERAGE FORWARD PRICES - NOV 6, 7, 8, 9, AND 13, 2018									BCUC IR 1.2.2 Response ALTERNATIVE 6m Tab 2 Page 7				
.ine				esidential		Comm	nerci	al	General Firm Service	NGV			General Interruptible	
No.	Particulars (1)	Unit		RS-1 (2)		(3)	F	RS-3 (4)	RS-5 (5)	RS-6 (6)	Subtotal (7)	RS-4 (8)	RS-7 (9)	Summar (10)
	(1)			(2)		(3)		(4)	(5)	(6)	(7)	(0)	(9)	(10)
1	MCRA Sales Quantity	TJ		45,496.8	17	,112.9	1	2,070.6	1,743.8	19.7	76,443.7	68.6	161.7	76,674
2														
3	Load Factor Adjusted Quantity													
4	Load Factor (a)	%		31.6%		31.5%		37.7%	45.6%	100.0%				
5	Load Factor Adjusted Quantity	ТJ												
5	Load Factor Adjusted Volumetric Allocation	%		61.5%		23.1%		13.7%	1.7%	0.0%	100.0%			
6														
7														
8	MCRA Cost of Gas - Load Factor Adjusted Allocation	_												
9	Midstream Cost of Gas Allocated by Rate Class	\$000	\$	82,217.7	\$ 30	,802.0	\$ 1	8,337.1	\$ 2,209.5	\$ 13.0	\$ 133,579.2			\$ 133,57
10														
11														
12	MCRA Cost of Gas Unitized	6/01	¢	4 0074		4 7000	¢	4 5400	¢ 4 0070	¢ 0.0007				
13 14	MCRA Flow-Through Costs before MCRA deferral amortization	\$/GJ	\$	1.8071	\$	1.7999	\$	1.5192	\$ 1.2670	\$ 0.6607				
14													Fixed Price	
16												Tariff	Option	
17	PROPOSED ALTERNATIVE January 1, 2019 Flow-through Storage	and Tr	ansp	ort Relate	d Cha	arges						Rate 5	Rate 5	
18				RS-1	R	S-2	F	RS-3	RS-5	RS-6				
19	Storage and Transport Flow-Through		\$	1.807	\$	1.800	\$	1.519	\$ 1.267	\$ 0.661		\$ 1.267	\$ 1.267	
20	Existing Storage and Transport (effective Jan 1, 2018)			1.064		1.073		0.907	0.677	0.339		0.677	0.677	
21	Increase / (Decrease)	\$/GJ	\$	0.743	\$	0.727	\$	0.612	\$ 0.590	\$ 0.322		\$ 0.590	\$ 0.590	
22	Increase / (Decrease)	%		69.83%	(67.75%		67.48%	87.15%	94.99%		87.15%	87.15%	
	Notes:													
	(a) Based on the historical 3-year (2015, 2016, and 2017 data) rolling average	ge load i	factors	for Rate S	chedu	iles 1, 2,	, 3 ar	nd 5.						
	Slight differences in totals due to rounding.													

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2.2.1 Please complete the below table for each rate schedule (RS-1, RS-2, RS-3, RS-5, RS-6) in order to compare existing Storage and Transport



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rates against rates based on a 3-month, 6-month and 12-month rate setting period.

	Rate Setting Period Used							
	3-Month	6-Month	12-Month					
Rate								
Current Rate								
Inc. / (Dec.)								
% Inc. / (Dec.)								

4

5 Response:

6 The table below compares the Storage and Transport Charges using the three requested rate

7 setting periods.



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	Rate Setting Period Used						
Storage and Transport Charges	3-	Month	e	6-Month	12-Month		
RS-1							
Rate	\$	2.582	\$	1.807	\$	1.485	
Current Rate	\$	1.064	\$	1.064	\$	1.064	
\$ Increase / (decrease)	\$	1.518	\$	0.743	\$	0.421	
% Increase / (decrease)		142.7%		69.8%		39.6%	
RS-2							
Rate	\$	2.556	\$	1.800	\$	1.490	
Current Rate	\$	1.073	\$	1.073	\$	1.073	
\$ Increase / (decrease)	\$	1.483	\$	0.727	\$	0.417	
% Increase / (decrease)		138.2%		67.8%		38.9%	
RS-3							
Rate	\$	2.360	\$	1.519	\$	1.245	
Current Rate	\$	0.907	\$	0.907	\$	0.907	
\$ Increase / (decrease)	\$	1.453	\$	0.612	\$	0.338	
% Increase / (decrease)		160.2%		67.5%		37.3%	
RS-5							
Rate	\$	2.034	\$	1.267	\$	1.029	
Current Rate	\$	0.677	\$	0.677	\$	0.677	
\$ Increase / (decrease)	\$	1.357	\$	0.590	\$	0.352	
% Increase / (decrease)		200.4%		87.1%		52.0%	
RS-6							
Rate	\$	1.452	\$	0.661	\$	0.469	
Current Rate	\$	0.339	\$	0.339	\$	0.339	
\$ Increase / (decrease)	\$	1.113	\$	0.322	\$	0.130	
% Increase / (decrease)		328.3%		95.0%		38.3%	

2.3 Please compare and contrast the pros and cons of a 3-month, 6-month and 12month rate setting period as methods to reduce natural gas demand. As a part of your response, please elaborate on why FEI proposes the use of the 12-month rate setting period over the other alternatives.



FortisBC Energy Inc. (FEI or the Company) Application regarding its 2018 Fourth Quarter Gas Cost Report and Rate Changes effective January 1, 2019 for the Mainland and Vancouver Island Service Area (the Application)	Submission Date: December 10, 2018
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1 Response:

As discussed in the response to BCUC IR 1.1.1.1, although in FEI's view it is possible that higher natural gas rates may encourage conservation of gas, FEI is uncertain to what extent

4 and how quickly such an outcome might occur.

5 The rate comparisons and residential customer bill impacts provided in the responses to BCUC 6 IRs 1.2.2.1 and 1.3.1 show that the bill impact differences, between the Storage and Transport 7 Charges based on a 3-month, 6-month, and 12-month rate setting period, for the remaining 8 winter period of January to March 2019 are not significant dollar amounts and may not be 9 material enough in nature to drive decreased consumption from low volume consumers. And, 10 as stated in the response to BCUC IR 1.1.1.1, preliminary data indicates that a certain level of 11 natural gas conservation appears to be occurring with FEI's actions to encourage customers to 12 voluntarily conserve natural gas. FEI is uncertain as to whether / how rates based on the 3-13 month or 6-month Storage and Transport Charges would affect customer behaviour - FEI has 14 some concerns that higher rates, which may be perceived as penalizing consumption, may not 15 work well with the voluntary conservation approach, and higher rates would be punitive to lower 16 income customers who typically have few conservation options and are less able to pay the 17 increased costs.

18 At this time, and under the current circumstances, FEI believes insufficient evidence exists to 19 support the implementation of higher Storage and Transport Charges, based on either a 3-20 month or 6-month rate setting period, as a method to reduce natural gas demand.

Given the uncertainty around the potential for demand reduction from the shorter rate setting periods, FEI believes it is preferable to maintain the accepted 12-month rate setting period and avoid the anticipated rate volatility that would result from using either the 3-month or 6-month rate setting methods.

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No. 1

1 C. BILL IMPACT

2 3.0 Reference: Exhibit B-1, p. 3; ALTERNATIVE Tab 2, p. 7

Typical Customer Bill

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Page 3 of the Application states, "Under a typical Mainland and Vancouver Island Rate Schedule 1 residential customer has an average consumption during the 3 months of January-March of 37 GJ – the bill impact of the higher alternative Storage and Transport rate compared to that set using the standard 12-month method for the January-March period equates to approximately \$41."

- 103.1Assuming a typical residential customer consumes 37 GJ over the period of11January to March 2019, please calculate the total bill to be paid using a 3-month,126-month and 12-month rate setting period.
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14 **Response:**

15 The table below shows the total billed amounts for a typical residential customer consuming 37

- 16 GJ over the period of January to March 2019 based on a Storage and Transport charge
- 17 determined using a 3-month, 6-month, and 12-month rate setting period.

Typical Residential Customer		Rate Setting Period Used								
Jan to Mar Total Bill		Month		6-Month	12-Month					
January to March consumption 37GJ										
RS-1 Customer to Pay(\$)	\$	462	\$	433	\$	422				
\$ increase to 12-Month rate	\$	41	\$	12	\$	-				
% increase to 12-Month rate		9.6%		2.8%		-				

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