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August 16, 2022

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

Attention: Ms. Sara Hardgrave, Acting Commission Secretary

Dear Ms. Hardgrave:

Re: FortisBC Energy Inc. (FEI)

Project No. 1599211

Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)

Response to the British Columbia Utilities Commission (BCUC) Information Request (IR) No. 4 on Evidentiary Update

On May 5, 2021, FEI filed the Application referenced above. In accordance with the regulatory timetable as amended in BCUC Order G-206-22 for the review of the Application, FEI respectfully submits the attached response to BCUC IR No. 4 on Evidentiary Update.

For convenience and efficiency, FEI has occasionally provided an internet address for referenced reports instead of attaching lengthy documents to its IR responses. FEI intends for the referenced documents to form part of its IR responses and the evidentiary record in this proceeding.

FEI respectfully submits the attached response to BCUC IR No. 4 on Evidentiary Update.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments cc (email only): Registered Parties

FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)

FORTIS BC<sup>\*\*</sup>

Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 4 on Evidentiary Update

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Submission Date:

August 16, 2022

1	49.0	Refere	ence:	EVIDENTIARY UPDATE TO THE APPLICATION
2 3				Exhibit B-30 (Evidentiary Update), Section 1.1, pp. 3–4, Section 1.3, pp. 5–6,
4				Appendix B, Table 6-1, p. 98
5				Labour Market Conditions and Total Cost Impact to the AMI Project
6		On pa	ges 3 an	d 4 of the Evidentiary Update, regarding the Baseline scenario, FEI states:
7 9 10 11 12 13 14 15 16			contract depend meter e such, F Howeve perform exchan	rently completes its meter exchanges using both FEI's internal labour and tors (i.e., approximately 40 to 45 percent is completed by contractors, ling on the year). At the time of the original Application, the labour rates per exchanges were similar between FEI's internal labour and contractors; as FEI assumed the same labour rates per meter exchanges at that time. er, since filing the Application, FEI has experienced cost increases for work ned by contractors. Based on current average contractor rates for meter ges, the increase over the FEI internal labour rates (i.e., the assumption for tractor labour rate in the original Application) is approximately 109 percent
17 18 19 20 21		49.1.	exchan meter e	ering the 109 percent increase in contractor labour rates for meter ges, please explain whether FEI considered adjusting the proportion of exchanges to be completed by contractors, and consequently FEI's internal for the AMI Project financial analysis. If not, please explain why not. Please explain the pros and cons of reducing the proportion of meter
22 23 24 25 26 27	Respo	onse:		exchanges to be completed by contractors, and consequently increasing the proportion to be completed by FEI's internal labour, including the impact on labour costs and the associated impact to the incremental levelized delivery rate.

28 FEI notes that the preamble to this question relates to the Baseline scenario and AMR alternative 29 and consequently the proportion of internal and contractor workforces that complete FEI's 30 sustainment meter exchange activities each year. The AMI Project financial analysis has different 31 workforce assumptions associated with the deployment of meters over three years that are not 32 related to the workforce assumptions set out in the Baseline or AMR scenarios as described in 33 the preamble. The AMI Project requires the hiring of a large temporary workforce to complete 34 these meter exchanges. Those considerations are addressed in the response to CEC IR4 13.1.

35 With respect to the Baseline scenario and AMR alternative where meters are exchanged as part 36 of FEI's annual sustainment program, FEI continuously seeks to complete meter exchanges 37 efficiently and cost-effectively and has considered adjusting the proportional use of contractors

5 BC™	FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)	Submission Date: August 16, 2022
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and FEI's internal workforce. To provide context with respect to meter exchange work, FEI's workforce strategy is to hire sufficient employees to maintain its emergency footprint and complete its regular operating activities. In addition, FEI uses contractors to absorb the variability (peaks

4 and valleys) in the annual meter exchange activities.

5 This resourcing strategy is important to maintain cost-effective ongoing operations by ensuring 6 the capacity of resources available to complete work matches the required work to be completed 7 each year as presented within the Baseline scenario and AMR alternative within the financial 8 model. If FEI were to reduce the number of meter exchanges completed by contractors, it would 9 need to increase the size of its internal workforce. Consequently, in years where FEI has less 10 meter exchange work this could result in excess internal workforce to complete the required work 11 which would then result in increased operating idle time and the associated productivity loss.

Additionally, the collective agreement for FEI's internal workforce is set to expire in 2024, and depending on the outcome of contract negotiations, this may impact the variance between contractor and internal workforce rates.

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  18 On pages 5 and 6 of the Evidentiary Update, FEI states:
- 19The impact of the cost increases in the two categories of labour and materials20discussed above results in an increase of approximately \$92 million to the total21capital cost for the AMI Project (over the pre-deployment and deployment period22from 2021 to 2026), from \$638.4 million in the Application to \$730.8 million.
- On page 98 of Appendix B to the Evidentiary Update, FEI provides Table 6-1, which shows
   capital costs for the AMI solution of \$752.5 million for the pre-deployment and deployment
   period in column 3 line 1.
- 49.2. Please reconcile the amount of \$730.8 million on page 6 of the Evidentiary Update
  to the \$752.5 million in Table 6-1 in Appendix B to the Evidentiary Update. Please
  provide any revisions to the Application, Tables or excel models as necessary.
- 29
- 30 Response:

The difference between the two amounts referenced in the IR is the incremental impact of the new Measurement Canada (MC) dispensation policy of \$21.7 million, which is discussed in

32 new Measurement Canada (MC) dis33 Section 2 of the Evidentiary Update.

The \$730.8 million described in Section 1.3 (i.e., pages 5 and 6) of the Evidentiary Update is the total capital costs for the AMI Project (pre-deployment and deployment period) which includes the impact of the labour and material cost increases discussed in Sections 1.1 and 1.2 of the

<b>(</b> /,	FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)	Submission Date: August 16, 2022
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- 1 Evidentiary Update but does not include the impact to the total capital costs due to the new MC
- 2 gas dispensation policy which was discussed in Section 2 of the Evidentiary Update.
- 3 The \$752.5 million reflected in Table 6-1 in Appendix B to the Evidentiary Update includes the
- 4 impacts of the labour and material cost increases as well as the impact due to the new MC gas
- 5 dispensation policy.
- 6 Please refer to Table 1 below which reconciles the \$730.8 million amount to the \$752.5 million
- 7 amount with a breakdown of the impacts between the labor and material cost increases and the 8 new MC gas dispensation policy.
- 9

## Table 1: Reconciliation of Total AMI Project Capital Costs (2021 – 2026)

Line	Project Capital Costs (\$millions)	Pre-Deployment 2021 - 2023	Deployment 2024 - 2026	Total (2021-2026)
1	Original (As-Filed)	48.6	589.8	638.4
2	Incremental Impact due to Increasing Labour and Material Costs	58.1	34.3	92.4
3	Subtotal	\$ 106.7	\$ 624.1	\$ 730.8
4	Incremental Impact due to MC Dispensation Policy	21.7	-	21.7
5	Total Evidentiary Update	\$ 128.3	\$ 624.1	\$ 752.5

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1	50.0	Refere	ence:	EVIDENTIARY UPDATE TO THE APPLICATION
2 3				Exhibit B-1 (Application), Section 3.1.1.2, p. 16; Exhibit B-30, Section 2, p. 6
4				Meter Exchange Dispensation
5		On pa	ge 16 c	of the Application, FEI states:
6 7				urement Canada is a federal regulatory agency that establishes the ements for energy metering devices and installations in Canada.
8		On pa	ge 6 of	the Evidentiary Update, FEI states:
9			With t	his Evidentiary Update, FEI is also providing information on a development
10				ling Measurement Canada's (MC) policy for meter dispensation for gas
11			utilitie	s. The Application as filed expected the Company would receive the approval
12			of MC	, upon the BCUC's granting of a CPCN in respect of the Project, to dispense
13			with m	neter exchanges in 2022. This expectation was based on the existing policy
14			in plac	ce for electric utility deployments throughout Canada where utilities receive
15			disper	nsations from MC meter exchange requirements upon approval of a project.
16			[Footr	note reference removed]
17			MC ha	as now set out the policy for meter dispensation specifically with respect to
18			gas m	eters, adjusting the earlier practice adopted for electric utilities. In November
19			of 202	21, MC provided notice that "the temporary permission is effective for the
20			•	ied implementation period." Since that notice, the MC policy for dispensation
21			has b	een fully developed and confirms that a gas utility is only able to apply for
22			meter	dispensation for years in which mass meter deployment is to take place.
23			As, pu	ursuant to this new policy, FEI must continue exchanging meters under its
24				ompliance sampling program until the year of mass deployment, the benefit
25				mplated in the Application of avoiding meter exchange costs in 2022 or 2023
26			will no	t be experienced. The loss of this benefit is now factored into the Evidentiary
27				e financial analysis. []
28		50.1.	Please	e discuss the frequency of changes to Measurement Canada's policy or
29				ce for meter dispensation for gas utilities.
30			-	
21	Doch	oncor		

31 Response:

FEI previously applied to Measurement Canada (MC) for dispensation in 2018 to support development of the Application and was denied for the reason that no policy for mass deployment of gas meters existed at the time. FEI then asked MC to consider gas utilities in the same policy as electric utilities. Subsequently, MC developed the policy for gas meter dispensation in parallel with the BCUC regulatory review of the Application. FEI received the new gas MC dispensation policy document from MC in late July 2022. FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for Approval of the Advanced Metering Infrastructure (AMI) Project (Application)



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- 50.2. Please explain whether FEI examined any alternatives to address the new Measurement Canada gas meter exchange policy. If no, please explain why alternatives were not examined.
  - 50.2.1 If yes, please provide the pros and cons of the alternatives considered, including the associated incremental levelized delivery rate impact of each. If the rate impact is not available, please explain why.

## 10 11 **<u>Response:</u>**

- 12 Utilities are legally required to exchange meters in certain circumstances.
- 13 MC's new policy contemplates certain circumstances where a gas utility can, as an alternative to 14 doing those meter exchanges, obtain dispensation from that requirement.
- As FEI's circumstances did not qualify for dispensation pursuant to the new policy, in the ordinary
   course FEI would simply need to proceed with the legally required meter changes.
- In 2022, in the absence of dispensation which would not have been available under the new policy
  even with an approved AMI Project, exchanges were done using diaphragm meters.
- However, as noted in the Evidentiary Update, as an alternative to using diaphragm meters in 2023, FEI plans to use advanced meters (with the radio off at the time of installation) for any required meter exchanges. There are current supply chain constraints to secure diaphragm meters, and use of advanced meters addresses these supply chain issues. It is efficient if the Application is approved and still the best available option even if the Application is not approved, with the radio remaining off.
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- Further on page 6 of the Evidentiary Update, FEI states:
- Due to the rising costs and availability issues with diaphragm meters and as contemplated in the Application, FEI still plans to install advanced meters (with the radio turned off) instead of diaphragm meters beginning in 2023 as part of its compliance sampling program, and then return to the premises where this occurred during Project deployment in order to connect each meter to the network. ... In the event the BCUC does not approve the Application, FEI will leave the radio turned off within each meter and the meter will continue to be read manually.

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quantify any potential cost impacts and the associated impact to the

50.3. In the event that the BCUC grants a CPCN for the Project, please explain whether FEI would consider turning on the radio when installing the advanced meters in 2023 rather than returning to these premises to turn on the radio.
50.3.1 Please discuss the pros and cons of this approach, including any cost impacts as compared to the approach described in the preamble. Please

incremental levelized delivery rate.

FortisBC Energy Inc. (FEI or the Company)

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- 9 Response:

10 As discussed in the response to BCUC IR1 15.4.1, FlexNet network coverage would need to be 11 available at the time of meter installation to allow for the commissioning of the communications 12 module in the advanced meters. Since the network installation will not be completed when most 13 meters are installed during 2023 sustainment activities as part of FEI's compliance sampling 14 program, a resource will be required to return to any previously installed advanced meters to 15 commission them after network coverage becomes available. Commissioning of the radio must 16 be conducted at the meter and cannot be completed remotely, nor can setup occur automatically 17 after the network becomes available.

For this reason, FEI is not considering turning the radios on during advanced meter installationsin 2023.

20 FEI notes that the incremental cost to return to commission each previously installed advanced

21 meter during mass deployment will be minimal as field employees will commission each meter at

the time another meter exchange appointment is completed at a premises in the same

- 23 neighbourhood.
- 24