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May 2, 2022

British Columbia Utilities Commission Suite 410, 900 Howe Street Vancouver, BC V6Z 2N3

Attention: Mr. Patrick Wruck, Commission Secretary

Dear Mr. Wruck:

Re: FortisBC Energy Inc. (FEI)

Application for Common Rates and 2022 Revenue Requirements for the Fort Nelson Service Area (Application) ~ Project No. 1599246

FEI Rebuttal Evidence

In accordance with the Regulatory Timetable established in British Columbia Utilities Commission Order G-86-22, FEI hereby files its Rebuttal Evidence in the above referenced proceeding.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

cc (email only): Registered Interveners

BRITISH COLUMBIA UTILITIES COMMISSION

FORTISBC ENERGY INC.

APPLICATION FOR COMMON RATES FOR THE FORT NELSON SERVICE AREA

REBUTTAL EVIDENCE OF

FORTISBC ENERGY INC.

May 2, 2022

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1 2		FORTISBC ENERGY INC. (FEI)
- 3 4	1.0	INTRODUCTION
5 6	Q1:	What is the purpose of this Rebuttal Evidence?
7 8 9 10	A1:	The purpose of this Rebuttal Evidence is to respond to the evidence of the Fort Nelson and District Chamber of Commerce ("FNDCC") ¹ and Northern Rockies Regional Municipality ("NRRM"). ²
11 12	Q2:	How is this Rebuttal Evidence organized?
13 14	A2:	This Rebuttal Evidence is organized under the following main topic headings:
15		• FEI's Phase-In of Common Rates and Benefits for Commercial Customers
16		Rate Stability and Other Benefits of Common Rates
17 18		 FEI's Consultation Process was Reasonable and Responsive to Customer Requests
19 20		 Common Rates Will Improve Regulatory Efficiency and Service Quality Will Be Maintained
21		FEI's Demand Forecast Methodology is Reasonable and Accurate
22 23		The Impact of Economic Development Potential is Limited and Uncertain

Exhibit C1-6.
 Exhibit C2-5.

12.0PHASE-IN OF COMMON RATES AND BENEFITS FOR2COMMERCIAL CUSTOMERS

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Q3: On page 4 of its evidence as well as in its response to BCUC IR1 2.1, FNDCC continues to conclude that "FEFN ratepayers still pay lower rates than FEI's other customers". Is this accurate?

- A3: No. FEI's rates for the Fort Nelson Service Area (also referred to as FEFN) and the rates for the rest of FEI are made up of three components: delivery, commodity, and midstream charges.
- For the delivery rates, although the FEFN residential delivery rates are currently lower than FEI, this does not mean FEFN's overall delivery rates are lower than FEI, as evidenced by the fact that FEFN's commercial delivery rates have been higher than FEI since 2014. Furthermore, FEFN's effective delivery rate for all customers (i.e., total FEFN delivery margin divided by total FEFN demand) is currently higher than FEI's effective delivery rate for all customers.³ See FEI's response to FNDCC-NRRM IR1 8.1.
- 19 20 For the commodity rates, the historical difference between FEI and FEFN is small. 21 and can be positive or negative at any given time. This is mainly driven by the 22 timing difference of when changes in the commodity rates are triggered in 23 accordance with the minimum rate change threshold as per the BCUC's 24 quidelines,⁴ which generally will correct itself over time as the commodity rates are 25 reviewed quarterly. Over a 10-year period between January 1, 2011 and January 26 1, 2022, the average difference in the commodity rates between FEI and FEFN 27 was \$0.0039 per GJ (i.e., equivalent to 0.098 percent of FEFN's current commodity 28 rate of \$3.964 per GJ, effective April 1, 2022). See FEI's response to BCUC 29 IR2 34.1. 30
- For the midstream rates, FEI is not proposing to transition FEFN to a common midstream rate with FEI. FEI's proposal is to set FEFN's midstream rate at 5 percent of FEI's midstream rate which is a level consistent with what FEFN is currently being charged. See Section 5.3.5.1 of the Application.
- Q4: On page 1 of its evidence, FNDCC states that "and at the end of the day
 FortisBC will collect \$150,000 more annually from rate payers in Fort Nelson
 based on current usage." Similarly, NRRM states that FortisBC will collect
 \$157,000 more annually in Fort Nelson. Are these statements accurate?
- A4: These statements are not accurate as they do not consider FEI's proposed phasein of common rates for residential customers. Assuming all else being equal, when taking into account FEI's proposed phase-in, Table 1 shows the incremental revenue collected by FEI from FEFN over the next 10 years. It can be seen that

³ For FEI, "all customers" excludes bypass customers that have rates set by contract (FEFN does not have any bypass customers).

⁴ L-5-01, dated February 5, 2011, and further modified in L-40-11, dated May 19, 2011.

FEI will be recovering in total \$140 thousand (i.e., Line 16) less from FEFN 2 customers in 2023 when the proposed phase-in of common rates for residential customers is considered. Cumulatively, assuming all else being equal, the total 3 incremental revenue collected by FEI from FEFN will be approximately 4 \$43 thousand over a 10-year period, or an average of \$4.3 thousand per year. Comparing to the proposed 2022 FEFN delivery margin of \$2.517 million, an average of \$4.3 thousand per year is equivalent to a small delivery rate impact of approximately 0.17 percent which FEI considers revenue neutral.

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Table 1: Incremental Revenue from FEFN with RS 1 Phase-in over a 10-year period

L	ne Particular	Reference	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
	1 FEFN Residential (RS 1)											
	2 Incremental Delivery Margin, excl. Phase-in (\$000s)	FNDCC-NRRM IR1 15.2	319	319	319	319	319	319	319	319	319	319
	3 Phase-in Rider (\$000s)	Application Table 5-17, Line 10	(298)	(266)	(234)	(202)	(170)	(138)	(106)	(74)	(42)	-
	4 Net Incremental Delivery Margin, incl. Phase-in (\$000s)	Line 2 + Line 3	21	53	85	117	149	181	213	245	277	319
	5											
	6 Cumlative Net Incremental Delivery Margin, incl. Phase-in (\$000s)	Sum of Line 4	1,662									
	7											
	8 FEFN Small Commercial (RS 2)											
	9 Incremental Delivery Margin (\$000s)	FNDCC-NRRM IR1 15.2	(132)	(132)	(132)	(132)	(132)	(132)	(132)	(132)	(132)	(132)
	10 Cumlative (10 yrs) Net Incremental Delivery Margin (\$000s)	Sum of Line 9	(1,318)									
	11											
	12 FEFN Large Commercial (RS 3)											
	13 Incremental Delivery Margin (\$000s)	FNDCC-NRRM IR1 15.2	(30)	(30)	(30)	(30)	(30)	(30)	(30)	(30)	(30)	(30)
	14 Cumlative (10 yrs) Net Incremental Delivery Margin (\$000s)	Sum of Line 13	(302)									
	15											
	16 Total FEFN Net Incremental Delivery Margin, incl. RS 1 Phase-in (\$000s)	Line 4 + Line 9 + Line 13	(140)	(108)	(77)	(45)	(13)	19	51	83	115	157
	17 Total Cumulative (10 yrs) Incremental Delivery Margin, incl. RS 1 Phase-in (\$000s)	Sum of Line 16	43									
	18											
	19 Average FEFN Incremental Delivery Margin per year (\$000s)	Line 17 / 10 yrs	4.3									
	20 Proposed 2022 FEFN Delivery Margin	App E-1, Sch. 15, Line 13, Col 5	2,517									
11	21 % Impact compared to proposed 2022 FEFN Delivery Margin	Line 19 / Line 20	0.17%									
12												

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FNDCC claims that FEI "fails to recognize that in Fort Nelson business 14 Q5: 15 owners are also residents" and states on page 2 of its evidence that: "The same people will be paying both rates, and any perceived tradeoffs are 16 artificial." Does FEI agree with FNDCC that the "perceived tradeoffs" 17 18 between residential and commercial customers are "artificial"?

- 20 A5: No. The benefit to commercial customers under common rates is real, as explained 21 in Section 5.3.5.2 of FEI's Application. For sole proprietor small commercial customers that also happen to be residential customers,⁵ Table 2 below shows 22 23 that there will be net savings due to common rates with or without the proposed 24 phase-in to residential customers. Table 3 below also provides a calculation of the 25 net effect over the 10-year phase-in period for FEFN customers who are both 26 residential and sole proprietor small commercial customers. It can be seen that 27 over the 10-year phase-in period, these customers will experience overall net 28 savings of approximately \$2,762 for their residential and commercial natural gas 29 service.
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⁵ Assuming a local residential customer who also owns a commercial business as a sole proprietor would be a small commercial customer.

Table 2: Net Savings in 2023 due to Common Rates for Customer that is Both aResidential and Small Commercial Customer

- 4 -

Line	Particular	Reference	Incrementa Impact in 202 to Common Only (\$)	3 due Rates
1	No Phase-in			
2	Residential RS 1	Table 5-14	\$	157
3	Small Commercial RS 2	Table 5-14 of Application	\$	(350)
4	Net Bill Impact in 2023 (Same Residential and Small Commercial Owner)	Line 2 + Line 3	\$	(193)
5				
6	With RS 1 Phase-in			
7	Residential RS 1	BCUC IR1 11.3, Table 4	\$	(5)
8	Small Commercial RS 2	Table 5-14 of Application	\$	(350)
9	Net Bill Impact in 2023 (Same Residential and Small Commercial Owner)	Line 7 + Line 8	\$	(355)

Table 3: Net Savings over 10 Years (with Phase-in) due to Common Rates for Customer that is Both a Residential and Small Commercial Customer

Line	Particular	Reference	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032
1	Residential RS 1											
2	Year-to-Year Residential Bill Impact w/ Phase-in (\$)	BCUC IR1 15.5, Table 4	(5)	17	17	17	17	17	17	17	17	23
3	Bill Impact w/ Phase-In Compared to NO COMMON RATES (\$)	Cumulative Sum of Line 2	(5)	12	30	47	65	82	99	117	134	157
4	Total 10-yr Residential Bill Impact w/ Phase-in (\$)	Sum of Line 3	738									
5												
6	Small Commercial RS 2											
7	Year-to-Year Annual Small Commercial Bill Impact (\$)	BCUC IR1 15.5, Table 4	(350)	-	-	-	-	-	-	-	-	-
8	Bill Impact <u>Compared to NO COMMON RATES</u> (\$)	Cumulative Sum of Line 7	(350)	(350)	(350)	(350)	(350)	(350)	(350)	(350)	(350)	(350)
9	Total 10-yr Small Commercial Bill Impact (\$)	Sum of Line 8	(3,500)									
10												
11	Total 10-yr Bill Impact (Same RS 1 & RS 2 Owner)	Line 4 + Line 9	(2,762)									

13.0RATE STABILITY AND OTHER BENEFITS OF COMMON2RATES

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Q6: What is FEI's response to FNDCC's claim that Fort Nelson Service Area customers "bear the risk that we will see significantly more volatility and increases moving to common rates than we will if we continue to pay our own way..."?

- 9 A6: FEI's evidence as presented in the Application and IR responses shows that Fort 10 Nelson Service Area customers will benefit from increased rate stability under 11 common rates. This is fundamentally due to the small number of customers in the 12 Fort Nelson Service Area compared to the over 1 million customers in the rest of 13 FEI. The large difference in number of customers between FEI and FEFN 14 significantly outweighs other potential factors that may impact rates, such as 15 capital costs or the impact of provincial policies. This is clearly demonstrated by Figure 4-8 of the Application, which showed that a single major capital project in 16 17 Fort Nelson (i.e., the Muskwa River Crossing CPCN) resulted in an approximately 18 13 percent delivery rate impact in 2015. As explained in FEI's responses to BCUC 19 IR1 3.2 and FNDCC-NRRM IR2 1.1, risks that may impact rates apply to both FEI 20 and FEFN; however, without a large customer base and no or limited opportunity 21 to attract offsetting revenue within FEFN, the risks of rate volatility and higher rates 22 will certainly be significantly worse for FEFN if FEFN remains separate from FEI. 23
- Q7: FNDCC and NRRM suggest that common rates would be beneficial only if
 large capital projects were more likely in the Fort Nelson Service Area than
 in FEI. Does the benefit of common rates depend on there being relatively
 more capital spending in FEFN compared to FEI?
- A7: No. The rate stability benefits of common rates stem from the larger customer
 base, not from the level of capital spending in FEFN compared to FEI. See FEI's
 response to FNDCC-NRRM IR1 8.1.
- 33 Q8: FNDCC queries what the additional risk Fort Nelson customers would be
 34 taking on due to the risk of catastrophic events given FEI's infrastructure?
 35 Will there be a change in risk under common rates?
- 36
- 37 A8: There would be no change in risk for Fort Nelson customers under common rates. 38 The risks of increasing capital expenditures given FEI's and FEFN's infrastructure 39 would be similar. Furthermore, the risk of declining demand for natural gas due to 40 electrification as well as other government low carbon policies would be the same 41 and applicable for both FEI and FEFN. FEI agrees that the magnitude of the risks, 42 should they materialize, could be higher for FEI than FEFN; however, given FEFN's small customer base and limited or no opportunity for offsetting revenues, 43 44 FEI expects the risk of a significant impact to FEFN's delivery rates would be much 45 higher if FEFN remains separate from FEI. See FEI's response to BCUC IR1 3.2 as well as FNDCC-NRRM IR2 1.1 and 1.4. 46 47

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- 1Q9:In its response to BCUC IR1 2.1 and 2.1.1, FNDCC claims the Muskwa River2Crossing Project is already part of FEFN's rate base and the rate impacts3associated with this project are declining over time with amortization for a4period of 25 years. Are these statements accurate?5
- 6 A9: No. The assets associated with the Muskwa River Crossing project are expected 7 to have a service life of 68 years based on the currently approved depreciation 8 rates for transmission mains at 1.46 percent. Although the rate impact due to the 9 project will decline over time as the assets continue to depreciate financially, the 10 project is expected to continue to have an impact on FEFN's delivery rates for 68 11 years, not 25 years. The 25 years was just an evaluation period used for the 12 purpose of the Muskwa River Crossing CPCN Application. As explained in BCUC 13 IR1 18.1 of the Muskwa River Crossing CPCN proceeding⁶, FEI chose a 25-year evaluation period because it provided an adequately long-term perspective of the 14 15 rate impact due to the project. It is not, however, the number of years that the 16 project will impact FEFN's delivery rates.
- Q10: In its response to BCUC IR1 2.1.1, FNDCC stated they do not "see a basis to expect a major infrastructure replacement in the Fort Nelson area every 5 to 10 years." What is FEI's response to this statement?
- 21 22 A10: Based on FEI's knowledge and experience as an operator of the natural gas 23 distribution system, including knowledge of the condition of its assets and the 24 potential issues that can arise over time due to environmental and other impacts, 25 there is the potential that a major infrastructure replacement similar in size to the 26 Muskaw River Crossing will be needed in the future, and could even be required 27 within the next 10 years. Moreover, even regular capital projects that are not 28 considered major infrastructure replacements, but are necessary to maintain safe 29 and reliable service, have a significant impact on Fort Nelson Service Area delivery 30 rates given the small customer base. The average delivery rate impact for capital 31 projects in the Fort Nelson Service Area, excluding major capital such as the 32 Muskwa River Crossing, is 2.30 percent per year between 2011 and 2020. See 33 FEI's responses to BCUC IR1 4.1 and 4.2. For instance, the currently in-progress 34 Recreation Centre District Station project has a capital cost of approximately \$655 35 thousand. While this project is relatively modest in size, the delivery rate impact is 36 approximately 2.32 percent compared to the proposed 2022 delivery rates. To put 37 this into perspective, the Fort Nelson Service Area's average delivery rate increase 38 from 2011 to 2020 is 5.59 percent (Figure 4-9 of Application) and the equivalent 39 delivery rate impact would be 0.006 percent under common rates with FEI.
- 40

- Q11: FNDCC indicates that, unlike cities like Vancouver, it does not have policies
 that restrict the use of natural gas. Is the Fort Nelson Service Area different
 than any other communities served by FEI in terms of the climate change
 policies of the municipal government?
- 45
- A11: No. FEI serves 135 communities across BC representing a variety of municipal
 approaches. Many municipalities served by FEI do not have local policies that

⁶ <u>https://docs.bcuc.com/Documents/Proceedings/2014/DOC_40027_B-5_FEI-BCUC-IR1-Response.pdf</u>

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- Q12: Are Fort Nelson Service Area customers paying their "own way" for natural gas service as FNDCC claims?
- A12: No. FEI's analysis is that the cost allocation from FEI to the Fort Nelson Service
 Area does not fully reflect the cost to serve Fort Nelson customers, so that Fort
 Nelson Service Area rates are already subsidized by other FEI customers. See
 FEI's response to BCUC IR1 10.1.
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13 Q13: Does Fort Nelson have separate electricity rates?

Roadmap to 2030.

- 15 A13: No. Fort Nelson is served by BC Hydro under the same rates as BC Hydro 16 customers in BC Hydro's integrated service area.⁷ As FNDCC's Evidence and their 17 response to FEI IR1 4.1 indicate, Fort Nelson is served by BC Hydro's local gas fired generator and back up transmission service from Alberta, which is not 18 19 physically connected to the electric system of BC Hydro's integrated service area. 20 As evidenced from BC Hydro's F2023-2025 RRA⁸, the costs to serve Fort Nelson 21 are borne by all of BC Hydro's customers in the integrated service area, including 22 BC Hydro's capital additions, O&M in the Fort Nelson area as well as the carbon 23 tax associated with the Fort Nelson generation facilities. Similarly, Fort Nelson 24 customers are also paying for capital additions, O&M as well as all other costs of 25 BC Hydro's integrated service area through their common electricity rates.
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Q14: In its response to BCUC IR1 3.7, NRRM highlighted the CleanBC Roadmap would "require BC Hydro to shift from its gas-fired generator that services Fort Nelson to an alternative zero-carbon source." If the conversion materialized, will Fort Nelson be paying for these conversions themselves?

32 A14: No. Since Fort Nelson is under the same rates as BC Hydro customers in the integrated service area, any capital costs required to convert the Fort Nelson 33 34 generation system or any incremental power purchased from local generation, 35 such as the Tu-Deh-Kah Geothermal Project shown in NRRM's evidence, will be 36 paid for by all BC Hydro customers under the integrated service area, including 37 Fort Nelson. This is a clear benefit to Fort Nelson's customers being under 38 common rates with the rest of BC Hydro's customers under the integrated service 39 area. In contrast, any capital projects, including projects that would be required to 40 meet the CleanBC Roadmap requirements to decarbonize FEI's natural gas 41 distribution system in the FEFN service area, will be paid for by only FEFN's 42 customers if FEFN remains separate from FEI.

restrict natural gas use. However, all communities in BC are subject to provincial

requirements, including the cap on GHG emissions for gas utilities in the CleanBC

⁷ BC Hydro Electric Tariff, PDF Page 19: Available online: <u>https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/corporate/tariff-filings/electric-tariff/bchydro-electric-tariff.pdf.</u>

⁸ BC Hydro's Fiscal 2023 to 2025 RRA. Page 4-12 Natural Gas for Thermal Generation; Page 6-52 Thermal Generation Projects – Plan Capital Additions and Expenditures; and Page 5A-11 and 5C-32 Operating Costs.

- 2 Q15: FNDCC indicated in response to FEI's IR 3.1 that switching to a heat pump 3 would cost Fort Nelson customers \$4,000 more annually for heating by BC 4 Hydro's electricity than by natural gas. After common rates for natural gas are implemented, will it still be less expensive for Fort Nelson Service Area 5 6 customers to use natural gas to heat their homes compared to BC Hydro's 7 electricity?
- 9 A15: Yes. Even if common rates are approved, the cost for Fort Nelson residential 10 customers to use natural gas for heating will still be significantly less than 11 customers that use BC Hydro's electricity for heating. Under common rates, the 12 average FEFN residential customer will be paying approximately \$3,843, or 332 13 percent, less than alternative heating using electric heat pumps based on the estimate from FNDCC, even without the proposed phase-in of Fort Nelson Service 14 15 Area residential delivery rates.

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14.0FEI'S CONSULTATION PROCESS WAS REASONABLE AND2RESPONSIVE TO CUSTOMER REQUESTS

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- Q16: In its response to BCUC IR1 3.2 regarding FEI's virtual town hall for FEFN, FNDCC claims that "without an in-person option a large segment of the community would not have been able to or willing to attend." What is FEI past experience of in-person town halls in FEFN?
- 9 A16: As part of FEI's 2016 Rate Design Application (RDA), FEI conducted an in-person 10 information session in Fort Nelson. The in-person information session had a total 11 of eight attendees from Fort Nelson, including the Mayor of NRRM at that time and 12 a representative from FNDCC. For this in-person information session in Fort 13 Nelson, five FEI staff from the Lower Mainland attended. The 2016 RDA decision⁹ 14 resulted in a bill impact of 6.55 percent to FEFN's residential customers, while 15 small and large commercial customers had a bill savings of 1.1 percent and 6.52 16 percent, respectively. FEI notes FNDCC was registered as an intervener in FEI's 17 2016 RDA proceeding but no information requests or argument were submitted by 18 FNDCC. NRRM was not registered as an intervener or interested party during 19 FEI's 2016 RDA proceeding. 20
- In contrast, the virtual town hall conducted by FEI for this Application had 75 registrants and 17 attendees. Based on the number of attendees in FEI's virtual town hall for this Application and the in-person session from the 2016 RDA, FEI believes the virtual town hall was a success and more cost-effective than an inperson event.
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Q17: In its responses to BCUC IR1 4.1 and FEI IR1 5.1, FNDCC highlighted that Fort Nelson News is printed and circulated in Fort Nelson while the Alaska Highway News does not print and circulate in Fort Nelson. What is FEI's response to this?

- 32 A17: Fort Nelson News and Alaska Highway News are the only two news media that 33 cover Fort Nelson locally. FEI has always advertised in these two newspapers 34 when notifying Fort Nelson customers of upcoming regulatory applications, and 35 there has never previously been an objection or complaint regarding this approach. 36 As stated in Section 6.3.2 of the Application, FEI bought ads in both newspapers 37 ahead of the originally scheduled virtual town hall on March 30 and the re-38 scheduled virtual town hall on April 27. As noted in FNDCC response to FEI IR1 39 5.1, the Alaska Highway News is available to Fort Nelson residents for free online 40 or through mail subscription.
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Q18: In its response to BCUC IR1 4.2, FNDCC discussed the alternatives to the Alaska Highway News that would be appropriate for media outreach in Fort Nelson, including radio (Bounce 102.3 and CFNR), bill inserts and direct emails. What is FEI's response to this?

⁹ Order G-135-18.

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- 2 A18: Regarding radio, as indicated in Section 6.3.2 of the Application, FEI ran a 30 3 second advertisement on CKRX-FM 102.3 (this radio is branded as Bounce 4 102.3), which is the sole radio station in the Fort Nelson area. The 30 second radio 5 spot advertised the virtual town hall and invited feedback from Fort Nelson 6 customers. 204 spots were broadcast during traffic reports, weather and breakfast 7 news during the campaign period. CFNR is a radio station based in Terrace, BC 8 which broadcasts to 70 First Nation communities in Northern and Central BC, not 9 just to Fort Nelson. FEI believes its media outreach was effective. For example, 10 FNDCC indicates on page 4 of their evidence that they learned of FEI's virtual town 11 hall from an evening radio ad.
- 12 13 Regarding bill inserts, FEI did not use this method to promote the virtual town hall 14 due to the lead-time required to create the bill inserts. Since not all customers 15 receive their bills on the same date, in order to ensure all FEFN customers receive 16 the bill inserts prior to the virtual town hall, the bill inserts would need to be created 17 two months prior to ensure the inserts were in the bills one month prior to the town 18 hall. For example, in order to include bill inserts in customers' bills prior to the 19 original March 30 virtual town hall, the bill inserts would have had to have been 20 created in January. Such an approach would have been impractical for two 21 reasons. First, FEI was still developing the Application at that time and had not 22 yet confirmed the date and time for the virtual town hall, so it would not have been 23 possible for FEI to confirm the date and time of the virtual town hall as early as 24 January. Second, including bill inserts over two months prior to the virtual town 25 hall would have lessened the timeliness of the information as many customers 26 would likely have forgotten about the virtual town hall by the time the event was 27 scheduled to occur. Additionally, FEI notes that had it used bill inserts to promote 28 the original March 30 virtual town hall, FEI would have had very limited ability to 29 reschedule to April 27 due to low registration since there would not be enough lead 30 time to redo the bill inserts to inform FEFN customers of the revised date. 31
- 32 FNDCC's suggestion that FEI should have directly emailed existing FEFN 33 customers is not an acceptable consultation approach. FEI's collection, use and 34 disclosure of personal information of an FEI/FEFN customer, such as an email 35 address, is governed by FEI's Privacy Policy in compliance with the Personal 36 Information Protection Act (PIPA). In accordance with section 8 of PIPA, FEI 37 obtains consent from customers who agree to provide their email address for the 38 sole purposes of managing their natural gas account. At this time, FEI does not 39 have consent from customers to use their personal information to contact them for 40 any other purpose.
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42 **Q19:** Please describe FEI's stakeholder consultation for the Application. 43

A19: FEI has engaged with FEFN stakeholders throughout this Application process and, in particular, during the Application development process. FEI's Community and Indigenous Relations Manager contacted stakeholders in Fort Nelson, including FNDCC, as early as October 2020 to advise that FEI was in the process of developing a common rates application and to discuss the potential for holding a town hall. At that time, FEI was considering hosting an in-person town hall in Fort Nelson; however, due in part to the occurrence of the "second wave" of the COVID-

19 pandemic and the resulting increased provincial restrictions, FEI decided to delay the town hall to provide time to assess virtual options and to continue to develop the application.

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For the originally scheduled March 30, 2021 town hall, FEI advertised through newspaper (Fort Nelson News and Alaska Highway News) and radio (CKRX-FM 102.3). FEI acknowledges that it could have contacted members of the FNDCC and NRRM earlier to request assistance with getting the word out for the virtual town hall. However, once it was clear that the March 30 virtual town hall had received limited registration, FEI rescheduled the town hall to April 27 and increased its media outreach as well as reaching out to members of the Fort Nelson community to assist with the outreach. For the re-scheduled town hall, FEI doubled its radio coverage, re-ran newspaper ads in the Fort Nelson News and Alaska Highway News, and promoted the town hall over social media. Further, FEI forwarded the details of the re-scheduled virtual town hall to FNDCC and to the Fort Nelson First Nation to help get the word out to the community. Fort Nelson First Nation confirmed via email to FEI on April 21, 2021 that they had received the information and had posted it on their Facebook page.

- Leading up to the virtual town hall, FEI responded to a number of requests from FNDCC for information on FEI and FEFN rates (see Appendix 2 of FNDCC's evidence, email thread spanning from April 19 to April 22).
- Subsequent to the town hall, FEI continued to engage with FNDCC through email and, at the request of FNDCC, members of the FEI regulatory team met with FNDCC virtually to answer questions about the information presented at the town hall.
- 29 FEI also responded directly to a customer question received via email subsequent 30 to the town hall (see Appendix A to this Rebuttal Evidence), and responded to a 31 request for information from the Regional Development Officer for NRRM. FEI 32 notes that this email thread was not included in NRRM's Evidence; therefore, FEI 33 has included this email thread as Appendix B. FEI also notes, as shown in 34 Appendix C, that FEI's Community and Indigenous Relations Manager re-iterated 35 its offer to make a separate presentation to the Regional Council, which the 36 Regional Council accepted.
- FEI also presented and responded to questions at a Fort Nelson First Nation Chiefand Council meeting.
- Throughout this engagement process, FEI has responded with as much information and detail as possible, recognizing that the common rates application was still under development and that any information provided in advance of the application would potentially be subject to modifications (which is why FEI was unable to provide all of the detailed information requested).
- FEI acknowledges that it neglected to inform FNDCC immediately when the Application was filed. However, in recognition of this oversight and in an attempt to help summarize the Application's content, FEI regulatory staff prepared a onepage summary of the Application specifically for FNDCC at its request (see Appendix C2 of NRRM's Evidence).

- 2 The email received from NRRM on September 29, 2021 which stated that the 3 information provided by FEI at the Regional Council Meeting did not satisfy the 4 question posed, occurred months after the meeting and, most importantly, 5 subsequent to the regulatory process being established by the BCUC for the 6 Application. At that time, and as stated in FEI's response dated October 7, 2021 7 (see Appendix C2 of NRRM's Evidence), FEI did not consider it appropriate to 8 provide information of the specificity requested outside of the regulatory process, 9 as such information would not be part of the regulatory proceeding record and thus 10 would not be part of the public record.
- 11

12 Q20: NRRM claims that FEI was focused on the benefits of common rates. Did FEI 13 present the negative impacts of common rates? 14

- A20: FEI presented the rate impacts of common rates as part of its presentations at the virtual town hall, the Regional Council meeting, and at the Fort Nelson First Nation
 Chief and Council meeting (see Appendices C-1 and C-5 of the Application).
 These presentations showed that common rates would result in an increased bill
 impact for FEFN residential customers. The rate impacts to residential customers
 is the only negative impact of common rates and it was fairly presented.
- 21

Q21: NRRM notes that the preferred common rates options was not presented in FEI's presentation to the municipality. Please explain why not? Is it unusual for information to change between consultation and the application?

- 26 A21: As explained in response to FNDCC IR1 19.1, FEI began developing the Proposed 27 Common Rate Option (Option 4) after the virtual town hall in response to the 28 feedback received at the town hall, and as part of FEI's ongoing efforts at that time 29 to develop a common rate option that achieved the goal of moving to common 30 rates as fully as possible without creating significant negative bill impacts to FEFN 31 customers. In that IR response, FEI also explained that even though it was still 32 developing the specifics of Option 4, FEI representatives were able to confirm at 33 the Regional Council meeting that FEI would not be proposing a full move to 34 common rates as the recommended option. 35
- 36 FEI's Proposed Option 4 in the Application is very similar to Option 2 presented at 37 the town hall and Option 1 presented at the Regional Council meeting (see Slide 38 24 of Appendix C-1 and Slide 15 of Appendix C-5 of the Application). At the town 39 hall, FEI had presented an option of moving to common delivery and cost of gas 40 rates; however, subsequent to the town hall, based on further information provided 41 by FEI's gas supply team, it became apparent that such an option was not possible 42 due to how FEI accounts for and treats its gas supply costs. In recognition of this, 43 and in recognition that moving to full common rates (and in particular common 44 midstream rates) was not supported by Fort Nelson customers, FEI developed its 45 Proposed Option 4. This evolution of development can be seen when comparing 46 the two aforementioned presentations, as in the presentation to the Regional 47 Council, FEI no longer presented a "common rates for delivery and cost of gas only" option; instead, FEI used the "common rates for delivery only" option since it 48

- was expected to be (and ultimately is) a close comparator in terms of bill impact to
 the option that FEI was still developing at the time of the Regional Council meeting.
 - It is not unusual for information to change between consultation and the time the application is filed. Part of the purpose of consultation is to receive input from stakeholders to inform an application. Ultimately, it is the BCUC's process where all the information is presented and available for review and comment. All stakeholders have had the opportunity to participate in the BCUC proceeding to comment on the proposal.
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11 Q22: NRRM claims that FEI was not open to changing it proposal. What is FEI's 12 response? 13

- A22: FEI has been and remains open to hearing from stakeholders and adjusting its proposal for common rates. An example of how FEI has changed its proposal in response to customer concerns is in respect to the midstream rate. FEI is aware that one of the primary concerns of Fort Nelson Service Area customers with common rates was recognition of their proximity to the supply of natural gas. FEI's proposal to set the midstream rate at 5 percent of FEI's midstream rate gives recognition to this concern.
- 21

Q23: FNDCC states on page 5 of its evidence that it is unclear how the online survey was advertised and their questions were not answered. How was the online survey advertised and has FEI responded to the survey questions?

- 26 At the virtual townhall presentation, attendees were encouraged to provide A23: 27 feedback through an online survey which was housed on a specific website¹⁰ with 28 information specific to this Application for Fort Nelson. As discussed in Section 29 6.3.3.2 of the Application, the online survey attracted 18 responses, which is one 30 more than the 17 attendees of the virtual townhall. FEI notes that the 31 questions/comments posted to the online survey (Appendix C3 of the Application) 32 were incorporated into FEI's Application and/or included in the FAQ posted on the 33 same website after the virtual town hall (See Section 6.3.3.1 and Appendix C4 of 34 the Application). 35
- Comments and question were also encouraged to be sent directly to a customer email specific for this Application (<u>fortnelson.customers@fortisbc.com</u>), which is accessed and replied by FEI's Community and Indigenous Relations Managers. To date, this email is still active and continue to be available for Fort Nelson customers on this Application.
- As FEI explained in A19, FEI has been very responsive to questions and queries
 received from FNDCC and NRRM, as well as from customers who reached out via
 email to FEI subsequent to the virtual town hall.
- 45

¹⁰ <u>https://www.fortisbc.com/in-your-community/working-in-your-neighbourhood/bringing-a-common-natural-gas-rate-to-fort-nelson?utm_campaign=corporate&utm_source=paid&utm_content=fortnelson.</u>

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Q24: In response to FNDCC's statements about notice of the Application being insufficient, how did FEI notify the community of the filing of the Application?

- 5 A24: FEI does not agree that notice of the Application was insufficient. Once the 6 regulatory timetable was established by the BCUC on September 21, 2021, FEI 7 undertook the following activities to provide notice to stakeholders:
- Published the Public Notice in display-ad format in the Fort Nelson News and
 Alaska Highway News;
- Published notice of the Application on FEI's Twitter, LinkedIn and Facebook
 social media platforms, including subsequently publishing weekly reminder
 notices; and
- Emailed direct copies of the Application to FNDCC, NRRM, Fort Nelson First Nation, Prophet River First Nation, and all registered interveners from both the FEI Annual Review for 2022 Rates and the FEFN 2019-2020 RRA proceedings.

FEI also observes that FNDCC was made aware of the Application even before the BCUC published its order and regulatory timetable, per FNDCC's email to FEI dated September 15, 2021 (FNDCC Evidence, Appendix 2). Therefore, the FNDCC was aware of the Application over a month in advance of the deadline for intervener registration.

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Q25: Is FEI reluctant to consult with stakeholders and share information as claimed by FNDCC and NRRM? 26

- A25: No. FEI regularly conducts consultation with stakeholders and views it as an important step in its application development process. FEI has shared extensive information with stakeholders, including the FNDCC and NRRM as demonstrated in the email correspondence attached to their evidence (as well as the additional email correspondence attached as Appendices B and C to this Rebuttal Evidence) and FEI's responses to information requests in this proceeding.
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15.0COMMONRATESWILLIMPROVEREGULATORY2EFFICIENCY AND SERVICE QUALITY WILL BE MAINTAINED

- Q26: On page 3 of its evidence, NRRM claims that the regulatory burden of the
 Fort Nelson Service Area imposes little cost. And, in response to BCUC IR1
 2.1, NRRM stated its understanding that the 1.78 percent figure presented in
 Table 5-1 of the Application represents "the proportion of FEFN's overall
 delivery rates from external regulatory costs, not the contribution of these
 costs to FEFN's delivery rate increases." Is this accurate?
- 9
- 10 A26: No, this is not accurate. The average 1.78 percent shown in Table 5-1 of the 11 Application represents the delivery rate impact to FEFN that resulted from external 12 regulatory costs. It is not 1.78 percent of FEFN's delivery rates as NRRM 13 suggested. To put this into perspective, FEFN's average delivery rate increase 14 from 2012 to 2021 was 5.59 percent as shown in Figure 4-9 of the Application, 15 which means that the 1.78 percent delivery rate impact from regulatory costs 16 contributed to approximately 31.8 percent of FEFN's average delivery rate 17 increase from 2012 to 2021. In comparison, the regulatory costs for FEI's 2022 18 Annual Review were approximately \$150 thousand, which is higher than FEFN's 19 historical regulatory costs shown in Table 5-1; however, these regulatory costs 20 only contributed to approximately 0.011 percent of FEI's delivery rate impact and 21 is equivalent to 0.14 percent of FEI's 2022 approved delivery rate increase of 8.07 22 percent. As such, in the context of FEFN, regulatory costs have a material impact 23 on the delivery rates.
- 24

Q27: Does the Fort Nelson Service Area bear the full costs of the regulatory burden?

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- A27: No. FEI allocates costs to FEFN based on number of customers, which does not capture the full cost. Please refer to FEI's response to BCUC IR1 8.3.
- 30
- Q28: NRRM claims that being a separate service area with its own rate base gives
 it an opportunity to raise concerns specific to it circumstances. Would
 NRRM have the same ability under common rates?
- A28: Yes. Under common rates, NRRM would have the same opportunity to participate
 in BCUC proceedings and raise issues specific to its community. FEI also notes
 that NRRM (and other FEFN stakeholders and Indigenous groups) would continue
 to have the opportunity to engage with FEI's Community and Indigenous Relations
 Manager designated to the Fort Nelson area.
- 40
- 41 Q29: NRRM claims that being a separate service area with its own rate base
 42 increases the "level of fairness". Does FEI agree with this assessment?
 43
- 44 A29: No. FEFN is one of 135 communities served by FEI, but is the only one with a 45 separate rate base and rates. FEFN's existence as a separate service area is due

to history, not any particular attributes of Fort Nelson compared to the other
 communities served by FEI. Consistent with provincial policy, FEI's view is that it
 is fair for all communities to be served under common rates.

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5 **Q30:** NRRM states that "FEFN users, as residents of the NRRM, are only too 6 familiar with the implications of the amalgamation and centralization of 7 service delivery in the interests of efficiency."¹¹ Is any corporate 8 amalgamation or centralization of service delivery required to implement 9 common rates?

A30: No. FEI is the corporate entity that serves FEFN and all of its other natural gas customers. Therefore, no corporate amalgamation is required. Service to FEFN is already fully centralized within FEI as discussed on page 20 of the Application.

15 **Q31:** Will common rates change any aspect of service to Fort Nelson?

A31: No. Service to the Fort Nelson Service Area will remain the same under common rates. As explained in the responses to BCUC IR1 31.2 and RCIA IR1 4.3, Fort Nelson customers will also benefit in the future from an expansion of service offerings if common rates are approved, as FEI plans to offer its Renewable Gas Program to FEFN customers subsequent to the completion of the Comprehensive Review and Application for a Revised Renewable Gas Program regulatory process which is currently underway with the BCUC.

¹¹ Exhibit C2-5, NRRM Evidence, p. 3.

16.0FEI'SDEMANDFORECASTMETHODOLOGYIS2REASONABLE AND ACCURATE

Q32: In its response to FEI's IR1 7.1, NRRM's expert CSCW notes the Total
 Demand shown in the table provided in FEI's IR1 7.1 is not the same as the
 sum of Residential and Commercial totals shown in the same table, and
 CSCW has concerns with its reliability. Does FEI agree with this
 assessment?

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- 9 A32: The purpose of the table provided in FEI's IR1 7.1 to NRRM was to No. 10 demonstrate that 2020 is not anomalous, regardless of whether this is analyzed 11 on FEFN's total demand, residential demand, or commercial demand. The data 12 was directly copied from Table A2-1 of Appendix A2 of the Application which was 13 also included in FEI's IR1 7.1 to NRRM directly above the table in question. The 14 table was never intended to show that the total demand equals to the sum of 15 residential and commercial demand, as it can be seen that FEI did not include the 16 RS 25 industrial customer demand in the table. RS 25 was not included as there 17 was no question about anomalous data for RS 25 and the single RS 25 customer 18 switched to RS 3 large commercial in November 2020 as discussed in Section 19 4.3.2.1 of the Application. 20
- Q33: On page 5 of Attachment 1 to NRRM's response to BCUC IR1 5.0, CSCW says
 they have identified several arithmetic mistakes in Table A2-1 of Appendix
 A2 of the Application, particularly the total customer count and customer
 additions for 2012 and 2020. What is FEI's response to this?
- A33: For 2012, there is no arithmetic mistake for the total customer count and total customer additions. FEI implemented a new SAP-based Customer Information System (CIS) in 2012 which resulted in a one-time customer count adjustment. This adjustment in customer count has no impact on historical results prior to 2012. This adjustment has existed since 2012 and was already discussed in a letter provided to the BCUC on January 28, 2013 which was included as Appendix E4 to FEI's 2014-2019 Performance Based Rate-making (PBR) Application.
- For 2020, the difference between the 2019 and 2020 total customer count shown in Table A2-1 is -24 (i.e., 2,373 - 2,349) while the total customer additions for 2020 is shown as -25. This is due to a rounding error in RS 3 which should have a customer addition of 3 instead of 2. This rounding error of 1 in 2020 is limited to the presentation of Table A2-1, and does not change the forecast for future years. 39
- 40 Q34: On page 5 of Attachment 1 to NRRM's response to BCUC IR1 5.0, CSCW
 41 (NRRM's expert) suggests the decline of total customer count from 2010 to
 42 2020 was only 39 customers. Does FEI agree with this assessment?
- A34: No. CSCW's conclusion that FEFN's total customer count declined by 39
 customers from 2010 to 2020 fails to consider that FEFN reached a peak of 2,446
 customers in 2015. From 2015 to 2020, FEFN's total decline in customers was

98. FEI notes FEFN lost more customers from 2015 to 2020 (i.e., 98) than it had 2 gained from 2010 to 2015 (i.e., 58).

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Q35: In its response to FEI's IR1 7.1, CSCW concludes the decline in demand seen in 2020 is anomalous. Does FEI agree with this assessment?

A35: No. FEFN's demand in 2020 is statistically not anomalous, nor is it a statistical outlier that deviates significantly from the majority of the data. Using the Grubb's Test for outliers¹² (a common statistical test for outliers), the demand as well as customer additions for 2020 is proven to be statistically not an outlier as shown in Tables 5 and 6 below. FEI also included the actual 2021 demand and customer additions in the tables below. Since neither 2020 nor 2021 are statistically outliers, FEI has no reason to exclude or introduce any different treatment for this data than the rest of the data in the forecasts.

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Table 5: Grubb's Test for Outliers on FEFN's Actual Demand (2011 to 2021)

	Total				RS 1				RS 2 & 3 -		
	Demand	Grubbs	Outliers Y/N		Demand	Grubbs	Outliers Y/N		incl. RS 25	Grubbs	Outliers Y/N
Year	(LT)	Test (G)	(If G > Critical G)	Year	(LT)	Test (G)	(If G > Critical G)	Year	Demand (TJ)	Test (G)	(If G > Critical G)
2011	622	0.807	No	2011	268	0.893	No	2011	354	0.774	No
2012	630	0.966	No	2012	269	1.018	No	2012	361	0.942	No
2013	645	1.251	No	2013	270	1.087	No	2013	375	1.288	No
2014	645	1.246	No	2014	268	0.882	No	2014	377	1.342	No
2015	603	0.445	No	2015	265	0.701	No	2015	337	0.366	No
2016	580	0.014	No	2016	262	0.441	No	2016	318	0.112	No
2017	556	0.451	No	2017	251	0.466	No	2017	304	0.443	No
2018	537	0.818	No	2018	245	0.957	No	2018	291	0.769	No
2019	537	0.806	No	2019	244	1.040	No	2019	293	0.729	No
2020	518	1.173	No	2020	243	1.144	No	2020	275	1.170	No
2021	502	1.483	No	2021	240	1.415	No	2021	262	1.489	No

Mean	579
SD	52
n	11
Alpha	0.05
T-Dist	3.751
Crit. G	2.355

Mean	257
SD	12
n	11
Alpha	0.05
T-Dist	3.751
Crit. G	2.355

Mean	322
SD	41
n	11
Alpha	0.05
T-Dist	3.751
Crit. G	2.355

¹² https://www.itl.nist.gov/div898/handbook/eda/section3/eda35h1.htm or https://www.graphpad.com/quickcalcs/grubbs1/.

					(2011		/				
									RS 2 & 3 -		
	Total				RS 1				incl. RS 25		
	Customer	Grubbs	Outliers Y/N		Customer	Grubbs	Outliers Y/N		Customer	Grubbs	Outliers Y/N
Year	Adds	Test (G)	(If G > Critical G)	Year	Adds	Test (G)	(If G > Critical G)	Year	Adds	Test (G)	(If G > Critical G)
2011	47	2.233	No	2011	18	1.632	No	2011	29	2.727	Yes
2012	12	0.695	No	2012	8	0.939	No	2012	4	0.227	No
2013	15	0.827	No	2013	12	1.216	No	2013	3	0.127	No
2014	3	0.300	No	2014	3	0.592	No	2014	-	0.173	No
2015	5	0.388	No	2015	1	0.454	No	2015	4	0.227	No
2016	(14)	0.447	No	2016	(18)	0.863	No	2016	4	0.227	No
2017	(22)	0.799	No	2017	(18)	0.863	No	2017	(4)	0.573	No
2018	(13)	0.404	No	2018	(8)	0.170	No	2018	(5)	0.673	No
2019	(24)	0.887	No	2019	(21)	1.071	No	2019	(3)	0.473	No
2020	(25)	0.931	No	2020	(18)	0.863	No	2020	(7)	0.873	No
2021	(26)	0.975	No	2021	(20)	1.002	No	2021	(6)	0.773	No
Mean	(4)			Mean	(6)			Mean	2		
SD	23			SD	14			SD	10		
n	11			n	11			n	11		
Alpha	0.05			Alpha	0.05			Alpha	0.05		
T-Dist	3.751			T-Dist	3.751			T-Dist	3.751		
Crit. G	2.355			Crit. G	2.355			Crit. G	2.355		

Table 6: Grubb's Test for Outliers on FEFN's Actual Customer Additions

(2011 to 2021)

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FEI notes that, as shown in Table 6 above, only the 2011 customer additions for the commercial customers were statistically an outlier; however, this has no impact on the forecast for commercial customer additions in 2021 or onward since the commercial additions forecast is based on the three-year average of the most recent actual additions from prior years, as discussed in Appendix A3 of the Application.

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12 Q36: In its response to FEI's IR1 7.1, NRRM referred to FEI's Okanagan Capacity 13 Upgrade (OCU) CPCN Application and highlighted FEI's assessment of 14 COVID-19 impacts on FEI's demand forecast for the areas that are applicable 15 to the OCU Project, including commercial loads declining due to business 16 closures and expected offsetting increases in residential heating loads due 17 to individuals working from home or spending more time at home. Does FEI 18 believe its assessment of COVID-19 impacts in the OCU CPCN also applies 19 to the Fort Nelson Service Area?

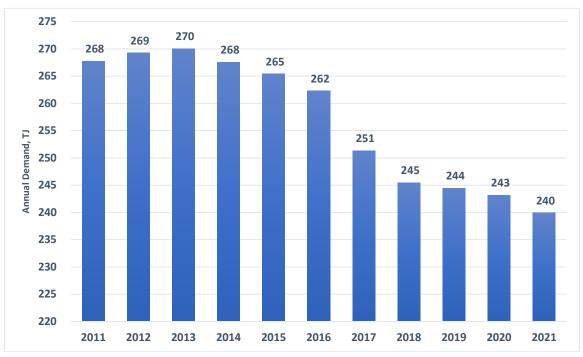
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A36: No. FEI's assessment of the impact of the COVID-19 pandemic on the demand
 forecast in the OCU CPCN Application cannot be applied to the Fort Nelson
 Service Area. The OCU Project area covers large urban cities such as Kelowna
 with populations close to 130 thousand compared to the Fort Nelson population of
 approximately 5 thousand. It is therefore expected that COVID-19 would have a
 much larger impact due to individuals working from home, leading to an increase
 in residential demand.

Figure 1 below shows FEFN's residential demand since 2011 and it can been seen that it has been on a continuous decline since 2013. The decline in demand from 2018 to 2021 is relatively consistent, ranging from 1 to 3 TJ per year. FEI also

notes that there does not appear to be an uptick in residential demand in 2020 or 2021 that might be associated with working from home due to the COVID-19 pandemic.



Furthermore, as shown in Figure 2 below for the commercial demand since 2011,

except for the small increase of 2 TJ in 2019, the average decline from 2014 to

2021 was approximately 17 TJ, which is comparable to the decline in 2020 and

2021, which was 18 TJ and 13 TJ, respectively.

Figure 1: FEFN's Actual Residential Demand (2011 to 2021)

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Figure 2: FEFN's Actual Commercial Demand (2011 to 2021)



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Q37: Please describe the extent to which FEI has relied on its demand forecast method in the past and its performance.

7 A37: FEI has been using largely the same demand forecast method, including the use 8 of the CBOC forecast for residential customer additions, since 2012. FEI's demand 9 forecast method is reviewed by the BCUC during each of FEI's revenue 10 requirement applications (RRAs) for the Fort Nelson Service Area and the RRAs for the rest of FEI's service area. Figure 3 below shows the Fort Nelson Service 11 12 Area's actual and forecast total demand from 2011 to 2021 with the variance 13 shown in percentage. The Mean Absolute Percentage Error (MAPE) for the total 14 demand forecast is 4.4 percent over the period from 2011 to 2021. This level of 15 MAPE is acceptable and comparable to other utilities. For example, the 10 gas 16 utilities that responded to the most recent (2021) annual ITRON survey reported 17 an average variance of 4.5 percent for 2020. The eight-year average variance from 18 this survey (ranging from eight to 16 participants each year) was 4.7 percent. FEI 19 believes that the 4.4 percent 2011-2021 MAPE currently experienced for the Fort 20 Nelson Service Area is very good considering the relatively small customer base 21 of approximately 2,400 customers, compared to the rest of FEI which has over 1 22 million customers. FEI notes the relatively higher variances shown in 2015 and 23 2016 were due to a large number of customers switching between small and large 24 customer classes at that time. Please see FEI's response to BCUC IR1 3.5. 25

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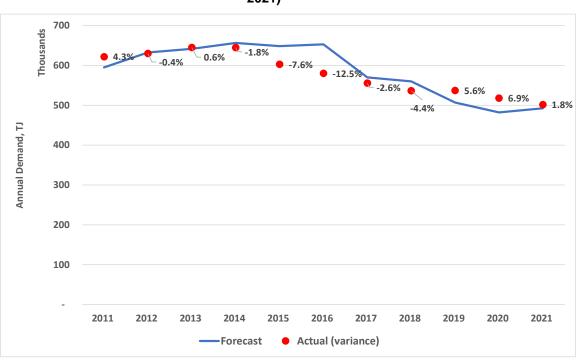


Figure 3: FEFN's Variance between Actual and Forecast Demand (2011 to 2021)

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Q38: In its response to RCIA IR1 3.5, NRRM was asked to calculate expected numbers of residential customers in Fort Nelson using the LHA growth rate 7 based on the methods described in Section 3.3.1.2 of FEI's OCU CPCN Application. Did FEI actually use the LHA growth rate to forecast the number of residential customers in the OCU CPCN Application?

9 10 11 A38: No. The LHA growth rates from the BC Stats Household Formation (HHF) forecast 12 were not the basis of the forecast residential customer count, or an alternative to 13 using the CBOC forecast, in the OCU CPCN Application. As explained in FEI's response to BCUC IR2 45.1 in the OCU CPCN Application,¹³ the HHF forecast 14 15 was simply used to divide the customer additions forecast based on the CBOC 16 forecast into different local health areas and further to individual municipalities 17 served by FEI that would be impacted by the OCU Project. In order words, the 18 customer additions forecast completed in the OCU CPCN Application was the 19 same method that was used for the Fort Nelson Service Area in this Application. 20 The LHA growth rates from the HHF were only used as a proxy to further break 21 down FEI's forecasts into the different municipalities. As there is only one LHA 22 within the Fort Nelson Service Area, the HHF forecast from BC Stats cannot be used to further break down the Fort Nelson Service Area customer additions. 23 24

25 Q39: In its response to RCIA IR1 7.1, NRRM made a comment that there is no LHA 26 #23 in BC which FEI had used in Section 3.3.1.2 of the OCU CPCN Application

¹³ https://docs.bcuc.com/Documents/Proceedings/2021/DOC 62610 B-14-FEI-Response-to-BCUC-IR2.pdf.

for Kelowna: "All LHAs are represented by a 3 digit number. Two digit numbers represent Health Service Delivery Areas (HSDAs). HSDA #23 represents Fraser South within the Fraser Health Authority and Kelowna is no in HSDA #23. Kelowna is in LHA #137 (Central Okanagan)." Is NRRM's assessment correct?

7 A39: No. As shown in Figure 4 below which is a screen capture from the BC Stats 8 website¹⁴ for household projections, the LHA numbering was updated by BC Stats 9 as of January 2020 to reflect the latest version of the boundaries released by the 10 Ministry of Health. BC Stats also provided an excel file available online for the translation between the old and new LHA identifiers. In this translation file between 11 the old and new LHA identifiers, it can be seen the old LHA identifier for Central 12 Okanagan is 23 which has been updated to 137. The LHA #23 presented in FEI's 13 14 OCU CPCN Application was the correct identifier at that time and it is not an HSDA 15 number.

Figure 4: Screen Capture from BC Stats Household Projections Website

Aain Methods	
Step 1: Select data	Step 2: Action
elect a region type	Generate output Reset selection 🛃 Download data as csv
Development Region	
Local Health Area Health Service Delivery Area	
Health Authority	Show 10 v entries
Regional District	Region 🔶 Local Health Area 🔶 Year 🔶 Tota
School District	
Special Regions (CMAs and Vancouver Isl	a 1 0 British Columbia 2041 27655
	Previous 1 Ne:
elect region(s)	Showing 1 to 1 of 1 entries
0 - British Columbia	
111 - Fernie	Notes
112 - Cranbrook	
113 - Kimberley	All figures are as of July 1 and are adjusted for census net undercoverage (including adjustment for
114 - Windermere 115 - Creston	incompletely enumerated Indian Reserves).
116 - Golden	 As of January 2020, Local Health Area (LHA) numbering has been updated to reflect the latest version the boundaries released by the Ministry of Health. Translation between old and new LHA identifiers can the boundaries released by the Ministry of Health.
	be downloaded here.
select year(s)	 Data obtained through this application is distributed under the Open Government License.
2034	Don't see what you need? See our Custom Population Products page for more information.
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21 **Q40:** In its evidence, NRRM and its expert CSCW commented that FEI's demand 22 prediction takes no notice of population predictions by BC Stats, and in

¹⁴ <u>https://bcstats.shinyapps.io/hsdProjApp/</u>.

response to FEI's IR1 8.3, NRRM's expert, CSCW, claims that the CBOC forecast FEI used in its demand forecast method for residential customer additions "does not consider the housing information from the province for the Fort Nelson community". Further, in Appendix D of NRRM's evidence, CSCW made various references to the BC Stats population and household projection forecasts, suggesting the BC Stats forecasts reflect the information from the Fort Nelson community. Does FEI have any comments about the BC Stats forecast for Fort Nelson's population or households?

10 A40: Yes. Figure 5 below shows the population for the Fort Nelson LHA from the BC Stats website with green showing the actuals from 2000 to 2020, and red showing 12 the forecasts from 2021 to 2041. After reviewing this information, FEI investigated 13 the unusually sharp turnaround from 2020 onwards as FEI could not explain this 14 statistically.

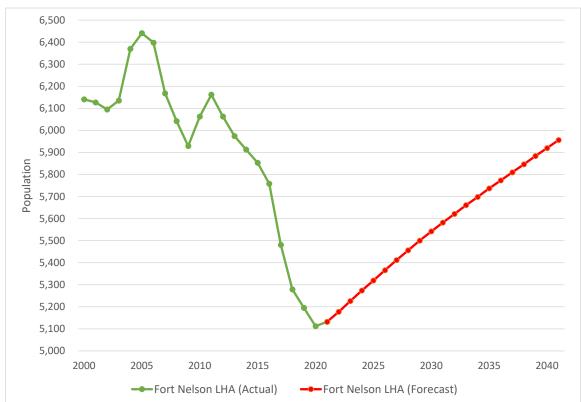


Figure 5: BC Stats Population Fort Nelson LHA (2000 – 2041)

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FEI reached out to BC Stats for clarification and met virtually with staff from BC Stats on April 27, 2022 to discuss this forecast for Northern Rockies and Fort Nelson. BC Stats explained that the forecast is currently based on the 2016 Census of Population, uses a method that was developed in 1999, and the forecast assumptions may not reflect the current circumstances in Fort Nelson. BC Stats further explained that the forecast method and software were currently under review for potential replacement. BC Stats recommended FEI refrain from using the Fort Nelson forecast until such time as these updates are complete.

- 7 A41: FEI notes the forecasting method used by CSCW relies on BC Stats household 8 data only to project the total demand of FEFN that includes residential, small and 9 large commercial customers. Using only the household numbers to forecast 10 different types of customers that have vastly different consumption patterns is 11 problematic, considering the large commercial rate classes include large facilities 12 such as hospitals, community centres, schools, hotels, as well as the former 13 Canfor Polarboard facility that switched from Rate Schedule 25 to Rate Schedule 3 in November 2020. FEI's forecasting method recognizes the differences 14 between different types of customers and forecasts for residential and commercial 15 16 rate classes separately.
- Q42: Will the forecasting method used by CSCW be more accurate than FEI's
 existing forecasting methods?
- 21 A42: No. Using the actual BC Stats household numbers and FEFN's total demand from 22 2001 to 2020, Table 7 below shows the comparison between FEI's original 23 forecasts and CSCW's BC Stats forecasting methods for the total demand from 24 2011 to 2020. FEI notes the CSCW forecasting method shown in Table 7 below 25 is based on a rolling 10-year linear regression between BC Stats actual household 26 numbers and FEFN's actual total demand. For example, the forecast for 2011 27 using CSCW's method would be based on the actual BC Stats household numbers 28 and FEFN total demand from 2001 to 2010, and the forecast for 2012 would be 29 based on actuals from 2002 to 2011.
- The MAPE of CSCW's forecasting method, based on the linear regression between the BC Stats household numbers and FEFN's total demand, is 9.1 percent, which is double the MAPE of FEI's forecast method of 4.5 percent. FEI also observes that CSCW's forecasting method always over-forecasts FEFN's total demand from 2011 to 2020, which is a sign that this forecasting method would be overly optimistic in the relationship between household growth and actual natural gas demand.
- 38

Table 7: Comparison between FEI's Original Forecast and CSCW's ForecastingMethods (2011 to 2020)

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
2433	2543	2489	2460	2377	2338	2235	2165	2139	2116
622	630	645	645	603	580	556	537	537	518
736	649	656	666	720	701	685	608	545	528
(114)	(19)	(11)	(21)	(117)	(121)	(129)	(71)	(8)	(10)
15.5%	2.9%	1.6%	3.1%	16.3%	17.2%	18.8%	11.7%	1.5%	1.9%
9.1%									
595	633	642	656	648	653	570	560	507	482
27	(3)	3	(11)	(45)	(73)	(14)	(23)	30	36
4.5%	0.4%	0.5%	1.7%	7.0%	11.2%	2.5%	4.1%	5.9%	7.5%
4.5%									
-	2433 622 736 (114) 15.5% 9.1% 595 27 4.5%	2433 2543 622 630 736 649 (114) (19) 15.5% 2.9% 9.1% - 595 633 27 (3) 4.5% 0.4%	2433 2543 2489 622 630 645 736 649 656 (114) (19) (11) 15.5% 2.9% 1.6% 9.1% 595 633 642 27 (3) 3 3 4.5% 0.4% 0.5% 0.5%	2433 2543 2489 2460 622 630 645 645 736 649 656 666 (114) (19) (11) (21) 15.5% 2.9% 1.6% 3.1% 9.1% - - - 595 633 642 656 27 (3) 3 (11) 4.5% 0.4% 0.5% 1.7%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

1 7.0 IMPACT OF ECONOMIC DEVELOPMENT POTENTIAL IS 2 LIMITED AND UNCERTAIN

- Q43: In its evidence, NRRM highlighted three potential industrial developments.
 From FEI's perspective, how will these developments impact FEFN's demand?
- A43: FEI's understanding is that none of the three potential industrial developments will add any industrial gas demand to FEFN's system. This is confirmed by NRRM's responses to FEI's IR1 2.2, 3.2, and 4.3. As such, the only potential impact due to these potential industrial developments, if they were to materialize, would be to the Fort Nelson Service Area's residential demand due to the increase in employment.
- 13 14
- 15 8.0 CONCLUSION
- 16 **Q44: Does this conclude FEI's Rebuttal Evidence?**
- 17
- 18 A44: Yes.

Appendix A

Subject:

FortisBC - Price increase for Fort Nelson Customers

From: Mason, Matt Sent: Thursday, June 3, 2021 9:27 AM To:

Subject: RE: [External Email] - FortisBC - Price increase for Fort Nelson Customers

Hi

The move to common rates is revenue-neutral for FortisBC which means that FortisBC will not earn more profit as a result of moving Fort Nelson customers to common rates.

Your natural gas bill includes a delivery component and a commodity component. The delivery portion of the natural gas bill is not influenced by Fort Nelson's proximity to natural gas production, it is instead related to FortisBC's recovery of the costs of our operations such as our distribution assets, labour, and facilities in Fort Nelson. This delivery portion of Fort Nelson customer rates has historically been more volatile compared to the larger FortisBC service area and has been steadily increasing in recent years due to the cost of infrastructure upgrades for safety and reliability purposes. The benefit for Fort Nelson customers paying the same rates as everyone else will be the lessened future rate impact since the costs of these upgrades for safety and reliability purposes will be spread over all of FortisBC's million plus customers instead of just Fort Nelson's approximately 2,400 customers. We are exploring a number of common rates options and are looking at potential options which recognize the current differences in Fort Nelson's commodity related charges. Additionally, and depending on the common rate option being considered, commercial customers may experience savings in their bills as a result of moving to common rates.

If you require more information, I would encourage you to visit the British Columbia Utilities Commission (BCUC) website to sign up as an intervener in the application process.

Kind regards,

Matt Mason Community & Indigenous Relations Manager matt.mason@fortisbc.com



Appendix B

From: Sent: To: Subject: Mason, Matt Friday, June 4, 2021 1:26 PM Mike Gilbert Re: [External Email] - Fortis Rate Proposal - Fort Nelson

Hi Mike,

Our regulatory department manager has looked at the spreadsheet and confirmed your assumptions are accurate. One thing worth noting is the spreadsheet does not have the savings forecasted for the commercial rates.

Again, FortisBC would be more than happy to present to council if leadership would like.

Kind regards,

Matt

From: Mike Gilbert <mgilbert@northernrockies.ca>
Sent: Friday, June 4, 2021 9:55 AM
To: Mason, Matt
Subject: [External Email] - Fortis Rate Proposal - Fort Nelson

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Hi Matt:

I'm attaching a working spreadsheet for comment. As noted, it assumes a move to full 'Postage stamp' rates in 2022.

I'd appreciate any comments, and corrections on any naïve assumptions I may have made. As noted I'm working on a deadline of having a report complete and submitted as of close of business today.

A copy of the presentation slide deck you referred to would be a good reference, please and thanks.

Mike

Mike Gilbert – Regional Development Officer <u>Northern Rockies Regional Municipality - BC's First!</u> Tel (250) 774-2541 ext 2043 | Fax (250) 774-6794 Municipal web page: <u>www.northernrockies.ca</u> Tourism web page: <u>www.tourismnorthernrockies.ca</u> 5319 - 50th Avenue South | Bag Service 399 | Fort Nelson, BC | V0C 1R0 9-1-1 Emergency Calling Service is now available in the NRRM

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Appendix C

From: Sent: To: Subject: Mason, Matt Monday, June 7, 2021 3:56 PM Mike Gilbert RE: [External Email] - NRRM following up

Hi Mike,

Thinking if we were to present, it would be good to present to council so it's on record with the public.

We are good with the 14th...

Also, we can present at noon on a day that works for everyone as well.

Matt

From: Mike Gilbert <mgilbert@northernrockies.ca>
Sent: Monday, June 7, 2021 2:54 PM
To: Mason, Matt <Matt.Mason@fortisbc.com>
Subject: [External Email] - NRRM following up

CAUTION: This is an external email. Do not respond, click on links or open attachments unless you recognize the sender.

Hi Matt:

Thanks for the information provided on short notice last week.

I've let the CEO know that there's an offer of a presentation to Regional Council. Were there to be a request to present at the next Council meeting on the evening of the 14th (likely at 5:00) could you do so or do you have another date (perhaps over the noon hour) that would work better?

Mike