

Diane Roy Vice President, Regulatory Affairs

Gas Regulatory Affairs Correspondence Email: gas.regulatory.affairs@fortisbc.com

Electric Regulatory Affairs Correspondence Email: <u>electricity.regulatory.affairs@fortisbc.com</u> FortisBC 16705 Fraser Highway Surrey, B.C. V4N 0E8 Tel: (604)576-7349 Cell: (604) 908-2790 Fax: (604) 576-7074 www.fortisbc.com

September 28, 2021

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

Attention: Mr. Patrick Wruck, Commission Secretary

Dear Mr. Wruck:

Re: FortisBC Energy Inc. (FEI)

Project No. 1599232

Annual Review for 2022 Delivery Rates (Application)

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

On July 30, 2021, FEI filed the Application referenced above. In accordance with the regulatory timetable established in BCUC Order G-277-21 for the review of the Application, FEI respectfully submits the attached response to BCUC IR No. 1.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments

cc (email only): Registered Parties



 1.1

| BC™ | FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|-----|--|---|
| | Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 1 |

| 1 | Table of Co | ontent | Page No. |
|----------------|---------------|--|--|
| 2 | A. GENERA | AL | 1 |
| 3 | B. FORMUI | LA DRIVERS | 12 |
| 4 | C. DEMANI | D FORECAST AND REVENUE AT EXISTING RATES | 19 |
| 5 | D. COST O | F GAS | 33 |
| 6 | E. OTHER | REVENUE | 36 |
| 7 | F. O&M EX | PENSE | |
| 8 | G. RATE B | ASE | |
| 9 | H. EARNIN | IGS SHARING AND RATE RIDERS | 68 |
| 10 | I. ACCOU | NTING MATTERS AND EXOGENOUS FACTORS | 83 |
| 11 | J. SERVIC | E QUALITY INDICATORS | 91 |
| 12 | | | |
| 13 | A. GEN | IERAL | |
| 14 | 1.0 Refe | erence: REVENUE REQUIREMENT AND RATE CHANGE | ES FOR 2022 |
| 15 16 17 | | Exhibit B-2 (Application), Section 1.1, pp. 1, 2; Annual Review for 2020 and 2021 Rates procee Section 12.4.1, p. 165 | Section 1.4, p. 7; FEI ding, Exhibit B-2, |
| 18 | | Delivery Rate Increase | |
| 19 20 | On p (Appl | bages 1 and 2 of FortisBC Energy Inc.'s Annual Review fo lication), FortisBC Energy Inc. (FEI) states: | or 2022 Delivery Rates |
| 21 22 23 | | The proposed delivery rates for 2022 flowing from the a forecasts set out in the Application, including returning the sharing to customers, result in an 8.07 percent delivery result in an 8.0 | approved formulas and le actual 2020 earnings ate increase from 2021 |

delivery rates. After consideration of the delivery rate riders, the annual bill impact

is an increase of approximately \$45.18 or 4.57 percent for a residential customer.

Please provide the annual bill impact of the proposed 2022 delivery rate increase after consideration of delivery rate riders and commodity charges, in dollars and

percent increase, for the average residential, commercial and industrial customer,

[Footnote references removed]

respectively.



1 Response:

Please refer to the table below which provides the annual bill impact of the proposed 2022 delivery rate increase for FEI's residential (Rate Schedule 1), commercial (Rate Schedules 2 and 3) and industrial (Rate Schedules 4 – 7) customers. FEI has excluded transportation customers as FEI does not have insight into the commodity charge portion of their total bills. In addition to the basic charge and delivery charge, the annual bill impacts include all commodity related charges and all delivery rate riders as listed below:

- Commodity-related charges:
 - Cost of Gas (Commodity Cost Recovery Charge)
- 10 o Storage & Transport Charge
- 11 o Rate Rider 6 MCRA per GJ

• Delivery Rate Riders:

- 13 o Delivery Rider 2 Clean Growth Innovation Fund
- 14 o Delivery Rider 3 BVA Rate Rider per GJ
 - Delivery Rider 5 RSAM per GJ (applies to Rate Schedules 1, 2, 3, and 23 only)
- 15 16

9

Further, the average residential annual bill impact as referenced in the preamble was based on

Further, the average residential annual bill impact as referenced in the preamble was based on the cost of gas rates on July 2021 when the Application was filed. Pursuant to Order G-266-21, the BCUC approved the cost of gas rates for FEI's RS 1 to 7 and RS 46 customers to increase from \$2.844 per GJ to \$3.844 per GJ, effective October 1, 2021. FEI has also included the

21 average annual bill impacts in percentages based on the new cost of gas rates effective October

1, 2021 in the table below. For clarity, the average annual bill impacts in dollars remain the same

23 since in this Application FEI is requesting approval only of delivery rate increases.

| | Average UPC | Annual Bill Impact, incl. all riders and Commodity Related Charges | | Annual Bill Impact, incl. all riders and Commodity Related Charges on July 2021 | Annual Bill Impact, incl. all riders and Commodity Related Charges on <u>October 2021</u> |
|-----------------|-------------|---|-----------|--|--|
| Rate Schedule | (GJ) | | (\$) | (%) | (%) |
| Residential | | | | | |
| Rate Schedule 1 | 90 | \$ | 45.18 | 4.57% | 4.19% |
| Commercial | | | | | |
| Rate Schedule 2 | 340 | \$ | 120.36 | 3.86% | 3.48% |
| Rate Schedule 3 | 3,770 | \$ | 999.05 | 3.36% | 2.98% |
| Industrial | | | | | |
| Rate Schedule 4 | 7,450 | \$ | 1,668.80 | 3.95% | 3.36% |
| Rate Schedule 5 | 15,040 | \$ | 3,902.34 | 3.95% | 3.43% |
| Rate Schedule 6 | 2,930 | \$ | 811.61 | 4.10% | 3.57% |
| Rate Schedule 7 | 128,790 | \$ | 21,379.14 | 3.14% | 2.64% |



3 4

5

6

7

1.2 If possible, please provide a forecast of the annual delivery rate changes expected until the end of the current Multi-Year Rate Plan (MRP) period (i.e., 2023 and 2024). If not possible, please explain why not.

8 **Response:**

9 FEI has not prepared a forecast of the annual delivery rate changes expected for 2023 and 2024 10 at this time as they require detailed development of each component of the revenue requirement, 11 including the demand forecast, taxes, O&M expenses, interest rates, and capital additions in 12 those years. Further, as directed by the BCUC in the MRP Decision and Order G-165-20¹, FEI must file an updated forecast of its 2023 and 2024 regular sustainment and other capital 13 14 expenditures as part of the 2023 Annual Review. This updated forecast will impact 2023 and 15 2024 delivery rates and has not yet been developed.

16 To provide the requested rate increases with the information known today, the table below 17 provides a high level estimate of 2023 and 2024 delivery rate changes assuming no changes to 18 any components of FEI's revenue requirement, including demand forecasts, from the 2022 19 forecast, except for the following:

- 20 • Adjustment to FEI's formula O&M for 2023 and 2024 based on the 2022 net inflation factor 21 of 3.324 percent;
- 22 Adjustment to FEI's formula growth capital for 2023 and 2024 based on the 2022 net 23 inflation factor of 3.324 percent and 2022 gross customer additions of 20,000;
- 24 Forecasts of sustainment and other capital for 2023 and 2024 based on the original 25 forecasts provided in FEI's MRP Application. FEI notes that, as explained above, the 26 sustainment and other capital forecasts for 2023 and 2024 will be updated as part of the 27 2023 Annual Review; and
- 28 Rate base additions in 2023 and 2024 from approved CPCNs, which include the Lower Mainland Intermediate System Upgrade (LMIPSU) project, Inland Gas Upgrade (IGU) 29 project, and the Pattullo Gasline Replacement (PGR) project. 30

| 31 | | | |
|----|--|-------|-------|
| | | 2023 | 2024 |
| 32 | High Level Forecast Delivery Rate Change (%) | 4.00% | 4.14% |
| - | | | |
| 33 | | | |

- 34
- 35

¹ MRP Decision, p. 131.



2

3

4

- 1.3 Please provide a table that compares FEI's approved and achieved annual return on equity (before and after earnings sharing), in dollars and percentage, for 2020 actual, 2021 projected and 2022 to 2024 forecast.
- 5 **Response:**

6 Please refer to the table below for FEI's approved and achieved return on equity (ROE), before 7 and after earnings sharing, for 2020 Actual. For 2021 Projected and 2022 to 2024 Forecast, FEI 8 does not have actual information and is therefore unable to forecast any variance from the 9 currently approved ROE of 8.75 percent. Therefore, before and after sharing amounts are equal 10 in each of these vacues

- 10 in each of these years.
- 11 As discussed in Section 10.2 of the Application, earnings sharing will have a two-year lag. For
- example, the 2020 actuals are trued-up in the proposed 2022 delivery rates. This is consistent
 with the calculations of formula O&M and growth capital, where the true-up of the formula inputs
- 14 happens only once actuals are known.

| Lino | Particular | Poforonco | 2020 | 2021 | 2022 | 2022 | 2024 |
|------|--|-----------------|-----------|-----------|-----------|-----------|-----------|
| Line | Particulai | Reference | 2020 | 2021 | 2022 | 2025 | 2024 |
| 1 | Approved/Forecast Equity Portion of Rate Base (\$000s) | See Note 1 | 1,943,106 | 2,006,789 | 2,082,530 | 2,189,885 | 2,291,156 |
| 2 | Approved/Forecast ROE (\$000s) | Line 1 x Line 3 | 170,022 | 175,594 | 182,221 | 191,615 | 200,476 |
| 3 | Approved ROE (%) | G-129-16 | 8.75% | 8.75% | 8.75% | 8.75% | 8.75% |
| 4 | | | | | | | |
| 5 | Actual Equity Portion of Rate Base (\$000s) | See Note 2 | 1,929,848 | | | | |
| 6 | Actual ROE Before-Sharing (\$000s) | See Note 2 | 171,135 | | | | |
| 7 | Actual ROE Before-Sharing (%) | Line 6 / Line 5 | 8.87% | | | | |
| 8 | | | | | | | |
| 9 | Actual Earnings Sharing (\$000s) | See Note 2 | (1,137) | | | | |
| 10 | Actual ROE After-Sharing (\$000s) | Line 6 + Line 9 | 169,998 | | | | |
| 11 | Actual ROE After-Sharing (%) | Line 10/Line 5 | 8.81% | | | | |

16 <u>Notes to table:</u>

15

17 1) Approved/Forecast Equity Portion of Rate Base: 18 For 2020 & 2021 – approved by Order G-319-20; 19 For 2022 - see Section 11 of the Application, Schedule 26; and • 20 For 2023 & 2024 - rate base forecast based on assumptions as discussed in the response • 21 to BCUC IR1 1.2. 22 2) Actual Equity Portion of Rate Base, ROE Before-Sharing and Earnings Sharing for 2020 is from 23 FEI's 2020 Annual Report, page 26.3. 24 25 26 27 On page 7 of the Application, FEI states: 28 The largest driver of FEI's 2022 revenue deficiency is the elimination of the prior 29 years' accumulated revenue surplus of \$35.287 million before tax, which equates 30 to approximately 3.98 percent of the total forecast delivery rate increase of 8.07 percent. Pursuant to Order G-319-20, FEI was approved to draw down the 2017 & 31 32 2018 Revenue Surplus deferral account to help mitigate the 2021 delivery rate 33 increase. The draw-down of the revenue surplus approved for 2021 brought the



- 1deferral account balance to near zero at the end of December 31, 2021, thus2resulting in the 2022 deficiency increasing by \$35.287 million compared to 20213delivery rates. FEI notes this is a one-time impact isolated to 2022.
- 4 On page 165 of FEI's Annual Review for 2020 and 2021 Rates application, FEI stated:
- 5 FEI is also requesting approval to draw down the remaining balance of the deferral 6 account in 2021 rates, which equals \$35.287 million pre-tax, which will result in a 7 6.59 percent 2021 delivery rate increase compared to 2020 delivery rates. Without 8 returning a portion of the existing surplus in 2021, the 2021 delivery rate increase 9 would be 10.87 percent compared to 2020 levels. [Footnote references removed]
- 101.4Please provide a breakdown of the 8.07 percent forecast delivery rate increase for112022, showing the percentage point impact (increase or decrease) attributable to12each component of the revenue requirement.
- 13

14 **Response:**

Please refer to the table below for the breakdown of the 8.07 percent forecast delivery rateincrease by each component of the revenue requirement.

| | Figure 1-1 | |
|--|---------------|---------|
| Components | (\$ millions) | % |
| Demand Forecast | (2.275) | (0.26%) |
| Other Revenue | 0.359 | 0.04% |
| Net O&M | 1.850 | 0.21% |
| Depreciation | 8.512 | 0.96% |
| Deferral Amortization | 19.037 | 2.15% |
| Financing and Return on Equity | 8.928 | 1.01% |
| Taxes | (0.215) | (0.02%) |
| Elimination of Accumulated Revenue Surplus | 35.287 | 3.98% |
| Total Deficiency | 71.483 | 8.07% |
| | | |
| Non-Bypass Margin at 2021 Approved Rates | 885.532 | |

- 17
- 18 19
- 13
- 20 21

22

- 1.5 Please provide the delivery rate increase for 2022 under the scenario that the prior years' accumulated revenue surplus of \$35.287 million was not applied to the 2021 delivery rates. In other words, what would the delivery rate increase for 2022 be if the 2021 approved rate increase had been 10.87 percent?
- 24 25



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

1 **Response:**

2 This response also addresses BCUC IR1 1.6.

3 Please refer to the table below for the annual delivery rate increases (Line 15) and revenue 4 deficiencies/surpluses (Line 14) from 2017 to 2021 if FEI had not received approval to defer any 5 revenue deficiencies/surpluses over those years. The delivery rate change shown for 2022 is 6 accordingly based on the assumption that there were no deferred deficiencies/surpluses applied

7 in the previous years.

8 As the table below shows, without the accumulation of the revenue deficiencies/surpluses in prior

- 9 years and the use of the accumulated surplus balance in 2021, the 2022 delivery rate increase 10 would be 3.93 percent.
- 11 The analysis below demonstrates the key benefit of FEI's approved approach of deferring the 12 deficiencies/surpluses between 2017 and 2020, as it has resulted in smoother delivery rate changes than the alternative of not deferring the deficiencies/surpluses in those years. Line 15 13 14 below shows that, had FEI not received deferral treatment, the year-to-year delivery rate changes 15 over the period from 2017 to 2022 would have been volatile, ranging from a rate decrease of 4.28 percent in 2017 to a rate increase of 11.17 percent in 2021. Conversely, by deferring and 16 17 accumulating the deficiencies/surpluses over the same period, the delivery rates (as approved 18 from 2017 to 2021, and proposed for 2022) were smoother, with gradual increases annually from 19 zero percent to 8.07 percent, and a difference of 8.07 percent between the highest and lowest 20 delivery rate change (as opposed to a difference of 15.45 percent between the highest and lowest 21 delivery rate change under the alternative scenario of not deferring the deficiencies/surpluses).

| Lino | Particular | Reference | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
|------|--|---|----------|----------|----------|-----------------|----------|-----------|
| 1 | Non Bunass Margin @ Evisting Bata (\$000s) | Brow Vr: Line 10 x Cur Vr: Line 17 | 747.002 | 767.070 | 912.049 | 2020 904 E91 | 022 067 | 020 042 |
| 1 | Non-Bypass Margin @ Existing Rate (3000s) | | 747,902 | 767,070 | 012,040 | 804,381 | 022,007 | 920,642 |
| 2 | Bypass and Special Rate Margin (\$000s) | Schedule 19 (2017-2021: See Note 1; 2022: Section 11) | 26,813 | 26,954 | 30,002 | 35,362 | 50,021 | 46,243 |
| 3 | Total Margin @ Existing Rate | Line 1 + Line 2 | 774,715 | 794,024 | 842,050 | 839,943 | 872,888 | 967,085 |
| 4 | | | | | | | | |
| 5 | Revenue Requirement (\$000s) | | | | | | | |
| 6 | 0&M | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | 236,050 | 241,481 | 246,088 | 262,297 | 274,770 | 276,620 |
| 7 | Depreciation & Amortization | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | 199,526 | 222,212 | 230,699 | 232,160 | 280,628 | 308,177 |
| 8 | Property Tax | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | 67,450 | 67,157 | 67,559 | 67,959 | 71,811 | 73,397 |
| 9 | Other Revenue | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | (42,958) | (46,048) | (44,893) | (37,597) | (41,995) | (41,636) |
| 10 | Income Tax | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | 35,651 | 50,137 | 52,972 | 35,844 | 54,012 | 52,211 |
| 11 | Earned Return | Schedule 16 (2017-2021: See Note 1; 2022: Section 11) | 246,984 | 281,696 | 291,732 | 315,305 | 325,561 | 334,489 |
| 12 | Total Expenses (\$000s) | Sum of Line 6 to 11 | 742,703 | 816,634 | 844,157 | 875,968 | 964,787 | 1,003,259 |
| 13 | | | | | | | | |
| 14 | Deficiency/(Surplus) (\$000s) | Line 3 - Line 12 | (32,012) | 22,611 | 2,107 | 36,025 | 91,899 | 36,174 |
| 15 | Delivery Rate Increase (%) | Line 14 / Line 1 | -4.28% | 2.95% | 0.26% | 4.48% | 11.17% | 3.93% |
| 16 | | | | | | | | |
| 17 | Non-bypass Volume (TJ) | Schedule 19 (2017-2021: See Note 1; 2022: Section 11) | 182,942 | 196,021 | 201,573 | 199,203 | 194,999 | 196,294 |
| 18 | Non-bypass Margin Required (\$000s) | Line 1 + Line 14 | 715,890 | 789,680 | 814,155 | 840,606 | 914,766 | 957,016 |
| 19 | Effective Revised Rate (\$/GJ) | Line 18 / Line 17 | 3.913 | 4.029 | 4.039 | 4.220 | 4.691 | 4.875 |
| 20 | | | | | | | | |
| 21 | Approved Deficiency/(Surplus) (\$000s) | Schedule 1 (2017-2021: See Note 1; 2022: Section 11) | - | - | 8,679 | 16,300 | 54,582 | 71,483 |
| 22 | Approved Delivery Rate Increase (%) | Schedule 1 (2017-2021: See Note 1; 2022: Section 11) | 0.00% | 0.00% | 1.10% | 2.00% | 6.62% | 8.07% |

22 Note 1: 2017: G-182-16; 2018: G-196-17; 2019: G-237-18 & G-10-19; 2020/2021: G-139-20

23



| ты | FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 | |
|----|--|---|--|
| | Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 7 | |

11.6Please provide the respective annual delivery rate increases and revenue
deficiencies/surpluses for the last 5 years (i.e. 2017 to 2021) in the absence of any
application of the 2017 & 2018 Revenue Surplus deferral account to mitigate the
rate increases in those years that had revenue deficiencies. In other words, what
would have been the delivery rate increases or decreases and the revenue
deficiencies/surpluses for 2017 to 2021 if there were no prior years' accumulated
revenue surplus?

9 <u>Response:</u>

10 Please refer to the response to BCUC IR1 1.5.

11



2

3

4

Page 8

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

2.0 Reference: REVENUE REQUIREMENT AND RATE CHANGES FOR 2022 Exhibit B-2, Section 1.4.5, p. 6; Section 12.4.2.2, pp. 145–147

Amortization of Deferral Accounts

On page 6 of the Application, FEI states:

- 5 Amortization of deferral accounts in 2022 increased by \$19.037 million, primarily 6 due to the increased amortization of the Demand-Side Management (DSM) 7 deferral account by approximately \$6.933 million and a debit amortization of 8 \$11.417 million for the 2020-2024 Flow-through non-rate base deferral account. 9 As discussed in Section 12.4.2, the debit amortization of \$11.417 million is 10 primarily due to unfavourable commercial and industrial delivery margin in 2020 11 Actual and 2021 Projected totalling to \$17.918 million, which is partially offset by 12 favourable residential delivery margin and other revenues, as well as savings from 13 interest, property tax, and income tax expenses.
- 142.1Please explain why amortization of the DSM deferral account has increased by15\$6.933 million compared to 2021. As part of the response, please provide a16breakdown of the \$6.933 million increase by each significant driver of the increase.
- 17

18 **Response:**

19 The increase in amortization of \$6.933 million from 2021 to 2022 is primarily attributable to the 20 2021 Projected deferral account additions of \$89.775 million (\$65.852 million after tax), which are 21 amortized over 10 years, and consist of the following:

| 22 | Rate Base Deferral Account Additions | \$29.932 million |
|----|--|-------------------------|
| 23 | Non-Rate Base Deferral Account Additions | 58.672 million |
| 24 | Total Additions before AFUDC | 88.604 million |
| 25 | AFUDC on Non-Rate Base Deferral Account | 1.171 million |
| 26 | Total Additions | <u>\$89.775 million</u> |

27

28 The total 2021 Projected additions of \$88.604 million (before AFUDC) shown above are equal to

- the 2021 forecast expenditures of \$88.803 million (excluding the portion allocated to Fort Nelson)
- 30 as shown in the 2019-2022 DSM expenditure schedule accepted by Order G-10-19, which details
- 31 the significant drivers of these expenditures as follows:

| Program Area | 2021 Expenditures (\$million) |
|--------------|-------------------------------------|
| Residential | 28.476 |
| Commercial | 27.437 |
| Industrial | 3.644 |
| Low Income | 6.984 |



| Program Area | 2021 Expenditures (\$million) |
|-------------------------------------|-------------------------------------|
| Conservation Education and Outreach | 8.578 |
| Innovative Technologies | 2.631 |
| Enabling Activities | 9.231 |
| Portfolio Level Activities | 1.822 |
| Total | 88.803 |

- 2.2 Please provide a table showing the balance of the DSM deferral account, including
 the annual amortization expense of the DSM deferral account and the DSM
 deferral account additions from 2019 to 2022. Please also include the percentage
 year over year change in DSM amortization expense and DSM deferral account
 additions, respectively.
 - 2.2.1 Please reconcile the annual DSM deferral account additions from the response above to the DSM expenditure schedule accepted by the BCUC by Order G-10-19.²

10

11

1

2

14 **Response:**

15 Please refer to the table below for balances in both the rate base and non-rate base DSM deferral 16 accounts, including annual additions and amortization expense for the years 2019 to 2022. Also 17 included below is the reconciliation of the DSM additions (Line 27) to the amounts accepted by 18 Order G-10-19, in addition to Order G-135-21, which approved an additional \$2.290 million of 19 expenditures in 2022. Please also refer to Line 30 and Line 32 for the percentage year-over-year 20 change in DSM deferral account additions and DSM amortization expense, respectively. FEI also 21 notes the DSM additions for Fort Nelson (Line 19) in columns 5 and 6 are an allocation of the total 22 DSM additions based on the average customer count between FEI and Fort Nelson.

² <u>https://www.ordersdecisions.bcuc.com/bcuc/orders/en/item/361056/index.do?q=G-10-19</u>, p. 5.



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 10 |

DSM Deferral Accounts Continuity 2019-2022

| Line | | | Actual | Actual | Projected | Forecasted | Total |
|------|---|--------------|----------|----------|-----------|------------|---------|
| No | Particulars | Reference | 2019 | 2020 | 2021 | 2022 | |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) |
| 1 | Demand Side Management - Rate Base | | | | | | |
| 2 | Opening Balance | | 100,790 | 137,957 | 165,474 | 195,760 | |
| 3 | Opening Balance Transfer from Non Rate Base | | 30,393 | 25,458 | 33,412 | 44,002 | |
| 4 | Additions | | 29,969 | 29,940 | 29,932 | 29,935 | |
| 5 | Тах | | (8,092) | (8,084) | (8,082) | (8,082) | |
| 6 | Amortization | | (15,103) | (19,797) | (24,976) | (31,910) | |
| 7 | Ending Balance | | 137,957 | 165,474 | 195,760 | 229,705 | |
| 8 | | | | | | | |
| 9 | Demand Side Management - Non Rate Base | | | | | | |
| 10 | Opening Balance | | 30,393 | 25,458 | 33,412 | 44,002 | |
| 11 | Opening Balance Transfer to Rate Base | | (30,393) | (25,458) | (33,412) | (44,002) | |
| 12 | Additions | | 34,575 | 45,366 | 58,672 | 67,798 | |
| 13 | AFUDC | | 218 | 295 | 1,171 | 1,353 | |
| 14 | Тах | | (9,335) | (12,249) | (15,841) | (18,305) | |
| 15 | Ending Balance | | 25,458 | 33,412 | 44,002 | 50,846 | |
| 16 | | | | | | | |
| 17 | Total Additions | | | | | | |
| 18 | FEI (Total of RB and NRB) | Line 4 + 12 | 64,544 | 75,306 | 88,604 | 97,733 | 326,187 |
| 19 | FN (Total of RB and NRB) | _ | 79 | 117 | 199 | 213 | 608 |
| 20 | | | 64,623 | 75,423 | 88,803 | 97,946 | 326,795 |
| 21 | | | | | | | |
| 22 | Total Approved | | | | | | |
| 23 | G-10-19 | | 66,350 | 72,577 | 88,803 | 96,775 | 324,505 |
| 24 | G-135-21 | | - | - | - | 2,290 | 2,290 |
| 25 | | | 66,350 | 72,577 | 88,803 | 99,065 | 326,795 |
| 26 | | | | | | | |
| 27 | Reconciliation Over (Under) | Line 20 - 25 | (1,727) | 2,846 | - | (1,119) | - |
| 28 | | | | | | | |
| 29 | | | | | | | |
| 30 | Year-over-Year % Change – DSM Additions | Line 18 | | 16.67% | 17.66% | 10.30% | |
| 31 | | | | | | | |
| 32 | Year-over-Year % Change – DSM Amortization | Line 6 | | 31.08% | 26.16% | 27.76% | |

On pages 145 to 147 of the Application, FEI explains the projected variances in delivery margin for 2021 and 2020, respectively, stating:

- unfavourable industrial margin as a result of lower LNG demand, partially offset by favourable interruptible volumes for the Vancouver Island Joint Venture; and
- unfavourable commercial margin mainly as a result of lower customers than forecast, partially offset by favourable residential margin mainly as a result of higher customers than forecast.
- 12 2.3 Please explain whether the unfavourable industrial and commercial margins
 13 experienced in 2020 and 2021 were impacted by the COVID-19 pandemic. If so,
 14 please explain how. If not, please explain why not.



1 Response:

2 The unfavourable industrial margins in 2020 and 2021, as mentioned in the preamble, were a 3 result of lower LNG demand from the non-NGT segment. As discussed in Section 3.3.4 of the 4 Application, this was primarily due to the COVID-19 pandemic which led to limited availability of 5 space on ships into and out of China, significantly increasing the cost of shipping LNG for FEI's 6 non-NGT LNG customers. FEI's 2022 forecast for non-NGT LNG demand is more favourable, as 7 reflected in Table 3-2 of the Application, based on discussions with customers and the expectation 8 that restrictions due to the COVID-19 pandemic will start to lift. Please also refer to the responses 9 to BCUC IR1 6.1 and 6.2 for further discussion on FEI's non-NGT LNG forecasts. 10 For the commercial segment, as mentioned in the preamble, the unfavourable margins in 2020 11 and 2021 were primarily a result of lower commercial customer additions than originally forecast. 12 as reflected in Figure 3-5 of the Application. FEI notes the commercial customer segment is very

13 diverse; therefore, it is difficult to pinpoint the specific factor(s) that might have led to the lower 14 commercial customer additions than originally forecast. However, as discussed in Section 3.3.2.1 15 of the Application, FEI believes the COVID-19 pandemic likely had significant impacts on commercial sectors such as tourism, hotels and restaurants, as well as small businesses, due to 16 17 various restrictions imposed during the pandemic. FEI is unable to predict if the COVID-19 18 pandemic will continue to impact the commercial segment in 2022 and beyond. As discussed in 19 Appendix A3 of the Application, FEI's forecasting method for commercial customer additions is 20 based on the average of net customer additions from the prior three years (i.e., from 2018 to

21 2020).

Any variances between forecast and actual/projected delivery margin are flowed through to customers.

- 24
- 25
- 26
- 27 2.4 Please explain whether the unfavourable industrial and commercial margins
 28 experienced in 2020 and 2021 are expected to continue in 2022 and beyond. Why
 29 or why not?
- 30
- 31 Response:
- 32 Please refer to the response to BCUC IR1 2.3.
- 33



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 12 |

1 Β. **FORMULA DRIVERS**

2 3.0 **Reference: FORMULA DRIVERS**

Exhibit B-2, Section 2.2, Table 2-1, p. 9; Section 2.3, Table 2-2, p. 10; 3 4 FEI Annual Review for 2020 and 2021 Rates proceeding, Exhibit B-2, 5 Section 2.3, Table 2-2, p. 10; Exhibit A2-1, Compliance Filing to the 6 BCUC's Decision and Order G-319-20 for FEI's Annual Review for 7 2020 and 2021 Delivery Rates dated December 11, 2020 (Compliance 8 Filing), Table 2-1, p. 2

9 Inflation and Growth Factor Calculation

10 The following is an extract of Table-2-1 on page 9 of the Application:

| | | Table: 18-10- | Table: 14-10- | | | | | Last Co | mpleted | | |
|------|----------|---------------|---------------|---------------|----------|-----|-----|---------|---------|----------|----------|
| | | 0004-01 | 0223-01 | <u>12 Mth</u> | Average | | | Ye | ar | | |
| | | | | | | | | Non | | | |
| Line | | BC CPI | BC AWE | CPI | AWE | CPI | AWE | Labour | Labour | I-Factor | MRP Year |
| No. | Date | index | \$ | index | \$ | % | % | % | % | % | |
| 1 | Jul-2019 | 132.4 | 995.70 | | | | | | | | |
| 2 | Aug-2019 | 132.2 | 1,003.20 | | | | | | | | |
| 3 | Sep-2019 | 132.0 | 1,007.69 | | | | | | | | |
| 4 | Oct-2019 | 132.2 | 1,015.61 | | | | | | | | |
| 5 | Nov-2019 | 131.8 | 1,012.26 | | | | | | | | |
| 6 | Dec-2019 | 131.7 | 1,014.87 | | | | | | | | |
| 7 | Jan-2020 | 132.1 | 1,025.98 | | | | | | | | |
| 8 | Feb-2020 | 132.9 | 1,024.80 | | | | | | | | |
| 9 | Mar-2020 | 132.3 | 1,029.14 | | | | | | | | |
| 10 | Apr-2020 | 131.2 | 1,105.84 | | | | | | | | |
| 11 | May-2020 | 131.5 | 1,127.73 | | | | | | | | |
| 12 | Jun-2020 | 132.6 | 1,097.00 | 132.1 | 1,038.32 | | | | | | |

Table 2-1: I-Factor Calculation

11

12 The following is an extract of Table 2-1 from FEI's Annual Review for 2020 and 2021 13 **Delivery Rates Compliance Filing:**

Table 2-1: Updated I-Factor Calculation

| | | Table: 18-10- 0004-01 | Table: 14-10- 0223-01 | 12 Mth | Average | | | Last Con Ye | mpleted ar | | |
|------|----------|--------------------------|--------------------------|--------|----------|--------|--------|----------------|---------------|----------|----------|
| Line | | BC CPI | BC AWE | CPI | AWE | CPI | AWE | Labour | Labour | I-Factor | MRP Year |
| NO. | Date | index | > | index | > | 70 | 76 | 76 | 70 | 76 | |
| 25 | Jul-2019 | 132.4 | 996.11 | | | | | | - | | |
| 26 | Aug-2019 | 132.2 | 1,003.60 | | | | | | | | |
| 27 | Sep-2019 | 132.0 | 1,008.09 | | | | | | | | |
| 28 | Oct-2019 | 132.2 | 1,015.74 | | | | | | | | |
| 29 | Nov-2019 | 131.8 | 1,012.40 | | | | | | | | |
| 30 | Dec-2019 | 131.7 | 1,014.52 | | | | | | | | |
| 31 | Jan-2020 | 132.1 | 1,025.61 | | | | | | | | |
| 32 | Feb-2020 | 132.9 | 1,025.17 | | | | | | | | |
| 33 | Mar-2020 | 132.3 | 1,029.38 | | | | | | | | |
| 34 | Apr-2020 | 131.2 | 1,106.54 | | | | | | | | |
| 35 | May-2020 | 131.5 | 1,126.59 | | | | | | | | |
| 36 | Jun-2020 | 132.6 | 1,097.37 | 132.1 | 1,038,43 | 1.596% | 5.745% | 48% | 529 | 3.754% | 202 |

14

15

16 3.1 Please explain why the BC AWE data for July 2019 through June 2020, as provided in Table 2-1 of the Application, is different from the BC AWE data for the 17



same period, as provided in FEI's 2020 and 2021 Annual Review Compliance
 Filing.

3

4 <u>Response:</u>

5 The monthly BC AWE amounts from July 2019 to June 2020 have changed because Statistics 6 Canada periodically revises their AWE results. FEI uses the most current set of AWE results in 7 each year's Annual Review filing.

- 8
- 9
- 0
- 10 11

12 On page 10 of the Application, FEI states: "FEI is forecasting gross customer additions of 13 20,000 for 2022, which is higher than the 2021 Approved amount of 16,000 but is reflective 14 of FEI's expectation of its 2021 customer growth, which is estimated at 20,500."

- 153.2Please provide details on the source and how FEI forecasted gross customer16additions of 20,000 for 2022. Please provide any calculations as necessary.
- 17

18 <u>Response:</u>

19 The 2022 Forecast of gross customer additions has been estimated based on the method 20 described on page 11 of the Application. Please also refer to the response to BCUC IR1 3.3.

Generally, housing demand currently outstrips supply and this circumstance is expected to remain into 2022. The 2022 forecast gross customer additions are reasonable and supported by market conditions along with current interest in connecting to the gas system via leads and connection requests.

- 25
- 26
- ~7
- 27
- 28 29

3.3 Please explain how and why FEI estimates 20,500 for its 2021 customer growth.

30 **Response:**

The forecast of 20,500 for 2021 is reflective of the current market for new homes and the increased demand for natural gas service to existing homes and is a 30 percent increase over the original forecast of 16,000. This is primarily driven by the COVID-19 pandemic which has had a significant and positive impact on the building, renovation and real estate markets. The building and real estate industry quickly adapted to the new reality of COVID-19 pandemic rules and protocols.

At the time that FEI filed its 2021 forecast in the Annual Review for 2020 and 2021 Delivery Rates
 Application, FEI did not foresee the positive impact that the COVID-19 pandemic would have on

39 new builds and existing home renovations/upgrades in BC. Two factors are playing a significant



role in accelerating the growth in new homes being built and existing homes beingupdated/upgraded (which often includes a new gas service):

 Increased demand for new homes during the COVID-19 pandemic. The demand for new homes has increased as many people who are now working from home want larger homes in a more suburban surrounding. Continued low interest rates have added to this market demand.

Available Cash. For those still working, available disposable income savings began to increase significantly during the pandemic. This was primarily due to the lack of opportunity to spend on vacations, food and entertainment, etc. As a result, some found that they now had the down payment to qualify for a new home. For those who already owned their home, many opted to invest in home renovations and upgrades such as updating heating equipment.

FEI's expectations for the remainder of 2021 and for 2022 do not indicate that this demand for new homes will drop significantly over this period. Demand continues to outstrip supply throughout BC, and is forecast continue in this manner for at least the next year. Therefore, FEI believes that its 2021 projected and 2022 gross forecast gross customer additions are reasonable and supported by market conditions.

- 18 19 20 21 3.3.1 Please explain the reasons for the difference between the 2021 approved 22 gross customer additions of 16,000 and FEI's expectation of 2021 23 customer growth of 20,500. 24 25 Response: 26 Please refer to the response to BCUC IR1 3.3. 27 28 29 30 3.3.2 Please explain whether the revised 2021 customer growth estimate (i.e.,
- 32
 - 33 Response:

31

34 The higher projected 2021 customer growth does not impact the proposed 2022 delivery rates.

20,500) impacts the proposed 2022 delivery rates. If so, how?

As explained in Section 7.2.1 of the Application, the true-up of formula growth capital requires the actual gross customer additions (GCA) for a full year be available. As such, the proposed 2022 delivery rates are only affected by the actual gross customer additions from 2020 (i.e., a two-year



lag). The 2021 customer growth will affect 2023 and future delivery rates, once the actual 2021
 GCAs are known.

FEI provides the following example of how the 2021 GCAs would impact future rates, based onits best estimates at this time.

5 Using the 20,500 projected GCAs, combined with FEI's knowledge of current results and capital 6 cost projections for the remainder of 2021, the 2021 projected growth capital expenditure estimate 7 is approximately \$105 million. This estimate is approximately \$40 million greater than the formula 8 growth capital expenditure calculation of \$64.8 million which was embedded in 2021 delivery 9 rates. Of the \$40 million, approximately half is a volume variance (due to the higher GCAs) and 10 half is due to cost pressures, primarily from customer-driven system improvements and large 11 mains extensions, as well as contractor price increases above what was embedded in the formula. 12 Under FEI's MRP, future delivery rates will be impacted in two ways. First, the volume variance

13 (the capital expenditure variance due to the GCAs being higher than the number of GCAs that 14 were included in the GCA formula) will be added to rate base in 2023, in the same way that the 15 2020 GCA true-up occurred in 2022 (see Table 7-2, row 16 of the Application). Second, the 16 remaining capital expenditure variance will impact earnings sharing for 2021 and future years of 17 the MRP term, although the delivery rate impacts will occur starting in 2023 due to the lag in 18 calculating the earnings sharing results. As earnings sharing is calculated based on the variance 19 in FEI's overall ROE, it will be impacted by the total variance in rate base which is impacted by 20 FEI's total capital expenditures (growth, sustainment, and other), and many other items. But, for 21 the purposes of illustrating the impact that the 2021 growth capital expenditures variance would 22 have on future ROE, FEI has assumed all other items would be equal to the approved.

With these assumptions, FEI estimates that the delivery rate impact of the 2021 growth capital expenditure variance of \$40 million would be an approximate 0.02 percent increase in 2023 and a further 0.35 percent increase in 2024 (once the full year of rate base impacts is included), when compared to the proposed 2022 forecast delivery margin.

- The impacts described above are only the incremental delivery rate impacts of the 2021 growth capital expenditures themselves. These impacts will be offset by incremental revenues from the 2021 GCAs, which will be realized in delivery rates as early as 2022 through both higher forecast customers in 2022 and the flow-through of additional revenues from 2021. These incremental revenues are discussed in the response to BCOAPO IR1 14.1 in relation to the 2020 GCAs.
- 33
- 34
- 35
- 36
- 37 FEI presents following calculation of the 2022 Average Customer growth factor in Table-
- 38 2-2 on page 10 of the Application:



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 16 |

Table 2-2: Calculation of 2022 Average Customer (AC) Growth Factor

| Line | | Actual | Projected | Forecast | Total for 2022 | |
|------|--|-----------|-----------|-----------|----------------|---|
| No. | Date | 2020 | 2021 | 2022 | Rate Setting | Reference |
| 1 | Prior Year Ending Customer Count | 1,038,354 | 1,051,752 | 1,063,473 | | Appendix A2 Table A2-1 FEI Customers |
| 2 | | | | | | |
| 3 | Additions: | | | | | |
| 4 | January | 1,544 | 1,872 | 1,795 | | |
| 5 | February | 1,028 | 883 | 840 | | |
| 6 | March | 403 | 577 | 552 | | |
| 7 | April | 722 | 358 | 329 | | |
| 8 | May | 726 | 206 | 179 | | |
| 9 | June | 921 | 172 | 143 | | |
| 10 | July | 824 | 230 | 183 | | |
| 11 | August | 848 | 655 | 609 | | |
| 12 | September | 338 | 686 | 633 | | |
| 13 | October | 2,006 | 2,213 | 2,092 | | |
| 14 | November | 2,010 | 1,979 | 1,882 | | |
| 15 | December | 2,028 | 1,890 | 1,800 | | |
| 16 | Total Additions | 13,398 | 11,721 | 11,037 | | Appendix A2 Table A2-1 FEI Customer Additions |
| 17 | 12-month Weighted Average Additions | 6,268 | 5,326 | 5,017 | | |
| 18 | | | | | | |
| 19 | Current Year Ending Customer Count | 1,051,752 | 1,063,473 | 1,074,510 | | Line 1 + Line 16; Appendix A2 Table A2-1 FEI Customers |
| 20 | | | | | | |
| 21 | Actual/Projected Prior Year Average Customers | 1,031,862 | 1,044,622 | 1,057,078 | | 2020: G-319-20; Sch 3, Line 13; 2021 and 2022: Prior Year Ending, Line 22 |
| 22 | Average Customers for the Year | 1,044,622 | 1,057,078 | 1,068,490 | | Line 1 + Line 17 |
| 23 | Change in Average Customers | 12,760 | 12,455 | 11,413 | 36,628 | Sum of Annual Change in Average Customers on Line 23 |
| 24 | | | | | | |
| 25 | Growth Factor Multiplier | | | | 75% | G-165-20 |
| 26 | Change in Average Customers for Rate Setting Pur | poses | | | 27,471 | Line 25 x Line 23 |
| 27 | | | | | | |
| 28 | Average Customers Used to Determine the Startin | g UCOM | | | 1,031,862 | Line 21, Yr 2020 |
| 29 | Average Customer Forecast for Rate Setting | | | | 1,059,333 | Line 28 + Line 26 |
| 30 | | | | | | |
| 31 | 2020 Approved Average Customers for Rate Settin | 1,040,410 | | | | 2020: G-319-20; Sch 3, Line 22 |
| 32 | 2020 Actual Average Customers for Rate Setting | 1,041,432 | | | | Line 21 Line 22 x 0.75 |
| 33 | 2020 True Up | 1,022 | | | | Line 32 - Line 31 |

1

2

3

On page 11 of the FEI Annual Review for 2020 and 2021 Delivery Rates application, FEI provided the following Average Customer growth factor calculation for 2020 and 2021:

Table 2-2: Average Customer (AC) Growth Factor Calculation¹¹

| Line | | | | |
|------|---|-----------|-----------|---------------------|
| No. | | 2020 | 2021 | Reference |
| 1 | Average Customer Forecast - Prior Year | 1,031,862 | 1,043,259 | |
| 2 | Average Customer Forecast - Test Year | 1,043,259 | 1,053,292 | Schedule 19, Row 30 |
| 3 | Average Customer Change | 11,397 | 10,033 | Line 2 - Line 1 |
| 4 | Customer Growth Factor Multiplier | 75% | 75% | |
| 5 | Change in Customers - Rate Setting Purposes | 8,548 | 7,525 | Line 3 x Line 4 |
| 6 | | | | |
| 7 | Average Customer Continuity for Rate Setting Purposes | | | |
| 8 | Average Customer Forecast - Prior Year | 1,031,862 | 1,040,410 | Prior Year Line 10 |
| 9 | Change in Customers - Rate Setting Purposes | 8,548 | 7,525 | Line 5 |
| 10 | Average Customer Forecast - Rate Setting Purposes | 1,040,410 | 1,047,935 | Line 8 + Line 9 |

- 4
- 5 6

7

3.4 Please explain and provide the calculation for the 12-month weighted average additions shown in Line 17 in Table 2-2 of the Application.

8 Response:

9 Please refer to the table below for the calculation of the 12-month weighted average additions.

10 Because the additions occur on a monthly basis, a 12-month weighted average is a more accurate

11 reflection of the average number of customer additions over a year than a straight average. For

12 example, the January additions are weighted for a full year (i.e., 12 months or a weighting of



- 1 12/12) while December additions are weighted for one month only (i.e., a weighting of 1/12). A
- 2 weighted average is consistent with how FEI has calculated its average customer additions in its
- 3 past annual review applications.

| Line | Particular | | Reference | 2 Additions | 020 Actual Monthly Weighting | Weighted Additions | 202 Additions | 1 Projected Monthly Weighting | Weighted Additions | 202 Additions | 2 Forecast Monthly Weighting | Weighted Additions |
|---|------------|-------------------------------------|--|---|--|--|-------------------------------------|-------------------------------------|-----------------------|------------------------|------------------------------------|-----------------------|
| | (1 | 1) | (2) | (3) | (4) | (5) = (3) x (4) | (6) | (7) | (8) = (6) x (7) | (9) | (10) | (11) = (9) x (10) |
| 1 | January | | | 1,544 | 12/12 | 1,544 | 1872 | 12/12 | 1,872 | 1795 | 12/12 | 1,795 |
| 2 | February | | | 1,028 | 11/12 | 942 | 883 | 11/12 | 809 | 840 | 11/12 | 770 |
| 3 | March | | | 403 | 10/12 | 336 | 577 | 10/12 | 481 | 552 | 10/12 | 460 |
| 4 | April | | | 722 | 9/12 | 542 | 358 | 9/12 | 269 | 329 | 9/12 | 247 |
| 5 | May | | | 726 | 8/12 | 484 | 206 | 8/12 | 137 | 179 | 8/12 | 119 |
| 6 | June | | | 921 | 7/12 | 537 | 172 | 7/12 | 100 | 143 | 7/12 | 83 |
| 7 | July | | | 824 | 6/12 | 412 | 230 | 6/12 | 115 | 183 | 6/12 | 92 |
| 8 | August | | | 848 | 5/12 | 353 | 655 | 5/12 | 273 | 609 | 5/12 | 254 |
| 9 | September | | | 338 | 4/12 | 113 | 686 | 4/12 | 229 | 633 | 4/12 | 211 |
| 10 | October | | | 2,006 | 3/12 | 502 | 2213 | 3/12 | 553 | 2092 | 3/12 | 523 |
| 11 | November | | | 2,010 | 2/12 | 335 | 1979 | 2/12 | 330 | 1882 | 2/12 | 314 |
| 12 | December | | | 2,028 | 1/12 | 169 | 1890 | 1/12 | 158 | 1800 | 1/12 | 150 |
| | - | - | | | | | | | | | | |
| 3.5 Please clarify whether FEI has changed the average customer (AC) growth factor calculation methodology for 2022 compared to the methodology used for 2020 and 2021. | | | | | | | | | | | | |
| | | Please calcula 2021. | e clarify w ation metl | hether Fl nodology | El has c for 2022 | hanged t 2 compar | he avera ed to the | age cus e metho | tomer (A dology us | C) growt sed for 20 | th facto 020 and | r J |
| | | Please calcula 2021. 3.5.1 | e clarify w ation metl If so, p | hether Fl nodology please pro | EI has o for 2022 ovide th | hanged t 2 compar e followir | he avera ed to the | age cus metho | tomer (A dology us | C) growt sed for 20 | th facto 020 and | r J |
| | | Please calcula 2021. 3.5.1 | e clarify w ation metl If so, p (i) | hether Fl nodology please pro The ratior | EI has c for 2022 ovide th nale for t | thanged t 2 compar e followir the chang | he avera ed to the ng: ge; | age cus metho | tomer (A dology us | C) growt ed for 20 | th facto 020 and | r d |

- shown in the FEI Annual Review for 2020 and 2021 Delivery Rates;
 (iii) The 2022 average customer forecast for rate setting and rate impact using the calculation methodology in the FEI Annual Review for 2020 and 2021 Delivery Rates.
- 3.5.2 If not, please explain how the two calculation methodologies are the same.

Response:

FEI has not changed the methodology for calculating the average customer (AC) growth factor in
2022. FEI has only changed the presentation of the calculation in Table 2-2.

27 Table 2-2 of the Application is an expanded version of Table 2-2 from the FEI Annual Review for

28 2020 and 2021 Delivery Rates Application (2020 and 2021 Annual Review). The purpose of the



- 1 expanded version is to provide additional calculations and cross-referencing to Appendix A2 for
- 2 the average customer forecast numbers (i.e., Line 22 of Table 2-2 of the Application vs. Line 2 of
- 3 the 2020 and 2021 Annual Review version of the table). This was done to provide assurance to
- 4 the BCUC that a consistent customer forecast was applied throughout the Application.
- 5 Please refer to Table 1 below for the AC growth factor calculation using the data from this6 Application presented in the format of Table 2-2 from the 2020 and 2021 Annual Review.
- 7 Both versions of the table produce the same average customer forecast for rate-setting purposes,
- 8 which is 1,059,333, as shown in Line 29 of Table 2-2 of the Application and Line 10 in the table
- 9 below.

11

Table 1: 2022 Data Presented in 2020 and 2021 Annual Review Table 2-2 Format

| Line | | Actual | Projected | Forecast | |
|------|--|-----------|-----------|-----------|-----------------------------|
| No. | | 2020 | 2021 | 2022 | Reference |
| 1 | Average Customer Forecast - Prior Year | 1,031,862 | 1,044,622 | 1,057,078 | |
| 2 | Average Customer Forecast - Test Year | 1,044,622 | 1,057,078 | 1,068,490 | Schedule 19, Line 37, Col 9 |
| 3 | Average Customer Change | 12,760 | 12,455 | 11,413 | Line 2 - Line 1 |
| 4 | Customer Growth Factor Multiplier | 75% | 75% | 75% | |
| 5 | Change in Customers - 2022 Rate Setting Purposes | 9,570 | 9,341 | 8,560 | Line 3 x Line 4 |
| 6 | | | | | |
| 7 | Average Customer Continuity for 2022 Rate Setting Purposes | 5 | | | |
| 8 | Average Customer Forecast - Prior Year | 1,031,862 | 1,041,432 | 1,050,774 | Prior Year Line 10 |
| 9 | Change in Customers - 2022 Rate Setting Purposes | 9,570 | 9,341 | 8,560 | Line 5 |
| 10 | Average Customer Forecast - 2022 Rate Setting Purposes | 1,041,432 | 1,050,774 | 1,059,333 | Line 8 + Line 9 |
| | - | | | | |

12 The "change in average customers for rate setting purposes" in the expanded Table 2-2 of the 13 Application is not based on a three-year average. It is still based on prior years and uses the same methodology that was used in Table 2-2 of the 2020 and 2021 Annual Review. However, 14 15 instead of multiplying the individual year's "change in customers" by the 75 percent growth factor multiplier and then presenting it as a cumulative continuity of "average customers for rate setting 16 17 purposes", as was done in the 2020/2021 version of Table 2-2, the new expanded Table 2-2 18 shown in this Application calculates the total average customer change over the three years from 19 2020 to 2022 first, before applying the 75 percent growth factor multiplier to the total. The end 20 result is the same between the two formats; the difference is simply in the presentation of how 21 the end result is derived.



Page 19

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

C. DEMAND FORECAST AND REVENUE AT EXISTING RATES

| 2 | 4.0 | Reference: | LOAD FORECAST |
|--------|-------|-----------------------------|--|
| 3 | | | Exhibit B-2, Section 3.3.3, pp. 22–24 |
| 4 | | | Industrial Demand |
| 5 6 | | On pages 2 industrial de | 2 to 23 the Application, FEI describes the customer survey used to forecast mand. On page 22 of the Application, FEI states: |
| 7 | | [] t | he response rate achieved in 2021 was 47.9 percent of industrial customers, |
| 8 | | repre | esenting approximately 90.0 percent of industrial volumes. There was no reply |
| 9 | | from | 47.1 percent of industrial customers, who received the survey and three |
| 10 | | remi | nder notifications; this group represents only 9.2 percent of the industrial |
| 11 | | dem | and. Surveys could not be delivered to 5.0 percent of the industrial customers |
| 12 | | due | to issues such as incorrect email addresses; this group represents 0.8 percent |
| 13 | | of the | e total industrial load. |
| 14 | | 4.1 Plea | se compare the industrial customer survey response rate and the |
| 15 | | corre | esponding load that the respondents represented as a percentage of the total |
| 16 | | indu | strial load in the years 2016 to 2021 in a table format. |
| 17 | | 4.1.1 | Please comment on the trend(s), if any, on the customer survey response |
| 18 | | | rate. |
| 19 | | | |
| 20 | Respo | nse: | |

21 The following table shows the industrial customer survey response rate and the corresponding

21 The following table shows the industrial customer survey response rate and the corresponding
 22 load that the respondents represented as a percentage of the total industrial load in the years
 23 2016 to 2021.

| Industrial Survey Response Rate | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 |
|---------------------------------|-------|-------|-------|-------------|-------|-------|
| Demand | 89.0% | 88.6% | 89.4% | 89.1% | 89.3% | 90.0% |
| Customers | 51.0% | 49.4% | 49.4% | 48.5% | 46.7% | 47.9% |

24

As shown in the above table, the response rates by demand have been very consistent. The 26 2021 survey that was just completed achieved a demand response rate of 90 percent, which is 27 the highest response rate achieved to date. While the response rate by customers has decreased 28 slightly between 2016 and 2021, FEI does not consider this to be representative of a trend, 29 particularly as the customer response rate for 2021 increased compared to 2020.

30

31



2

3

4.2 Please explain the measures that FEI has taken (or is undertaking) to improve the customer survey response rate.

4 Response:

- 5 The industrial forecast is based on the demand forecasts gathered from the industrial survey. As
- shown in the response to BCUC IR1 4.1, FEI achieved a demand response of 90 percent for the
 first time this year.

8 To support continuous improvement, each year FEI addresses any issues and implements any 9 minor changes that it believes will enhance the ease of responding to the survey and/or will 10 increase the usefulness and accuracy of the results. In 2020, some minor changes were made to 11 the survey software to allow customers to provide comments about why their forecast was higher 12 or lower than in the past. In addition, some minor formatting changes were made to the survey 13 form itself to reduce the possibility of typographical errors. Further, the message sent in the 14 introductory, survey and reminder email messages is reviewed each year for clarity and edited as 15 needed.

- FEI considers a demand response rate of 90 percent to be very strong and, despite ongoing improvement efforts, FEI is cognizant that it is not reasonable to expect a 100 percent response rate. FEI believes the consistently high response rate for the industrial survey is a result of the ease of use of the Industrial Survey Web Site tool. Using this tool, customers can review their prior consumption and survey submissions online as they enter their future forecast.
- 21
- 22
- 23
- 244.3Please compare the forecast and actual load among non-respondents and25respondents, respectively, from 2016 to 2021 in a bar graph and table format. As26part of the response, please include the forecast and actual load in PJ.
- 27 28

29

30

- 4.3.1 Based on the response above, please comment on the load forecast accuracy associated with respondents and non-respondents with an explanation of any variances between the two groups since 2016.
- 31 **Response:**

The following bar chart and table compare the forecast and actual load among non-respondents and respondents from 2016 through 2020. FEI has also provided the 2021 forecast load between non-respondents and respondents, but cannot provide the comparison for 2021 because the actual load will not be available until early 2022.







| | Actual, PJ | Forecast, PJ |
|-------------|------------|--------------|
| 2016 | | |
| No response | 8.4 | 7.9 |
| Responded | 53.8 | 49.7 |
| 2017 | | |
| No response | 7.5 | 7.0 |
| Responded | 58.1 | 56.0 |
| 2018 | | |
| No response | 8.0 | 8.3 |
| Responded | 58.0 | 54.6 |
| 2019 | | |
| No response | 8.2 | 8.5 |
| Responded | 61.3 | 61.4 |
| 2020 | | |
| No response | 7.5 | 7.7 |
| Responded | 59.5 | 60.8 |
| 2021 | | |
| No response | | 7.6 |
| Responded | | 60.1 |
| | | |

2

The chart shows that both the annual demand and the variance from the non-responding group of customers is very small, and in all cases the variance is smaller than the variance from the responders.

6 The five-year average variance for the non-responding customers was 0.9 percent. Many of the

7 non-responding customers are strata corporations that have very consistent demand year over

8 year which is reflected in these results.



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 22 |

1 The five-year average variance for the responding customers was -2.9 percent and is larger 2 because demand for many of these customers depends on the demand for the goods and 3 services they produce. In addition, other factors such as the cost of competing energy sources 4 affects their consumption relative to the forecasts they provide.

- 5
- 5
- 6
- 7

8

9

On page 23 of the Application, FEI further explains that "the demand from the industrial rate schedules is forecast to increase by 0.3 PJ in 2022F as compared to the 2021S."

- 104.4Please explain the factors that contribute to a higher industrial load forecast for112022. If applicable, please explain if these new loads are expected to persist in12future years.
- 13

14 **Response:**

The forecast increase in industrial demand from 88.6 PJs in 2021 to 88.9 PJs in 2022 is very minor, at 0.3 PJ or 0.34 percent. This is less than the absolute average year-over-year change

17 in industrial demand since 2011 of 2.1 PJs, as shown in Table 2-1 in Appendix A2.

Given that the aggregate increase from 2021 to 2022 is only one third of one percent and represents industrial survey responses from over 1,000 customers in 81 different industry segments, FEI is unable to comment on the factors that caused survey participants to forecast this minor increase.



| 1 | 5.0 | Refere | ence: | LOAD FORECAST |
|----------|--------------|----------------|--------------------------|--|
| 2 | | | ļ | Exhibit B-2, Appendix A3, pp. 6–7 |
| 3 | | | ļ | Forecast Methodologies: Commercial Customer Additions |
| 4 5 | | On pag comm | ges 6 to 7 ercial cus | 7 of Appendix A3 to the Application, FEI explains how it calculates forecast stomer additions: |
| 6 7 | | | The thre | ee-year average [net] additions [] is 433, 433 additions are forecast in 2021 and 2022. |
| 8 | | | 2021 <i>S (</i> | Customers = 2020 Customers + 3 Yr Avg Additions |
| 9 | | | Using th | ne data above: |
| 10 | | | 2021 <i>S</i> = | = 55,052 = 54,619 + 433 |
| 11 12 | | 5.1 | Please custome | confirm, or explain otherwise, that the forecasting method for commercial er additions has remained the same in the period between 2016 to 2020. |
| 13 14 | | | 5.1.1 | Please provide a table comparing the actual and the forecasted commercial customer additions for the period 2016 to 2020. |
| 15 16 | <u>Respo</u> | onse: | | |

17 Confirmed. The basic three-year average method for forecasting commercial customer additions 18 has not changed in the period from 2016 to 2020. However, as a result of a large migration of 19 RS 23 customers back to bundled service, FEI started forecasting RS 3 and RS 23 customers 20 together in the 2020 and 2021 Annual Review. Please also refer to Section 3.3.2.1 of the 21 Application for additional discussion. Once the customers in RS 3 and RS 23 were combined, 22 the resulting large commercial group was forecast using the same three-year average method.

The following table shows the forecast, actual and variance results for each commercial class, as well as the aggregate total.



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

| Customer Additions | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------------------------------|-------|--------|--------|---------|---------|
| Rate Schedule 2 | | | | | |
| Forecast | 1,026 | 1,318 | 1,210 | 1,115 | 872 |
| Actual | 998 | 899 | 1,271 | 442 | 677 |
| Variance | -2.8% | -46.6% | 4.8% | -152.3% | -28.8% |
| | | | | | |
| Customer Additions | 2016 | 2017 | 2018 | 2019 | 2020 |
| Rate Schedule 3 | | | | | |
| Forecast | (51) | 26 | 19 | 91 | 248 |
| Actual | (112) | 252 | 587 | 945 | (168) |
| Variance | 54.5% | 89.7% | 96.8% | 90.4% | 247.6% |
| | | | | | |
| Customer Additions | 2016 | 2017 | 2018 | 2019 | 2020 |
| Rate Schedule 23 | | | | | |
| Forecast | 30 | 18 | 66 | 16 | 35 |
| Actual | 79 | (91) | (64) | (777) | (125) |
| Variance | 62.0% | 119.8% | 203.1% | 102.1% | 128.0% |
| | | | | | |
| Commercial Customer Additions | 2016 | 2017 | 2018 | 2019 | 2020 |
| Forecast | 1,005 | 1,362 | 1,294 | 1,222 | 1,155 |
| Actual | 965 | 1,060 | 1,794 | 610 | 384 |
| Variance | -4.1% | -28.5% | 27.9% | -100.3% | -200.8% |

- 1
- 2 3
- 4

5

6

7

8

9

10

11

- 5.2 In light of the commercial uncertainty caused by the COVID-19 pandemic, please explain whether FEI has considered alternative forecast methodology to better reflect the immediate impact and the recovery year following the COVID-19 pandemic in its 2021 and 2022 load forecast.
 - 5.2.1 If so, please elaborate on what methodologies were considered and why they were not adopted for preparing the 2021 and 2022 load forecasts. If not, please explain why not.
- 12

13 **Response:**

- 14 FEI did not consider an alternative forecast method for commercial customer additions or use 15 rates for 2021 or 2022. FEI cannot predict the trajectory of the COVID-19 pandemic and when
- 16 recovery might occur.
- 17 The FEI commercial customer additions forecast method uses the most recent three-year average
- 18 of actual customer additions by rate class and region and, by reforecasting each year, the actual 19 impacts from the COVID-19 pandemic will be accounted for.
- 20 As shown in the figure below, the aggregate commercial demand variance for 2020 was better
- than any year since 2016, despite the COVID-19 pandemic. 21



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 25 |



When demand variances are low, potential method changes need to be considered very carefully, so that changes do not increase forecast variances. Potential new methods must be studied carefully, over a period of time. If methods are frequently changed (for example, in an attempt to capture current events), then forecasts and trends become difficult to compare over time and variances could increase.

7 FEI recently completed the Forecasting Method Study, filed as Appendix B2 in FortisBC's 2020-2024 MRP Application. The Forecasting Method Study represented the culmination of a number 8 9 of years of research and testing of alternative forecasting methods in response to the forecasting 10 directives in Order G-86-15 and accompanying Decision related to the FEI Annual Review for 11 2015 Delivery Rates Application. As a result of this study, FEI concluded that the existing three-12 year average method for forecasting commercial customer additions resulted in the lowest 13 demand variance. FEI is not aware of any other methods that were not tested as part of the 14 Forecasting Method Study that would be capable of accurately forecasting the trajectory of the 15 COVID-19 pandemic and its impact on potential future commercial customers.

16 FEI also notes that load forecasting variances are recorded in either the Revenue Stabilization 17 Adjustment Mechanism (RSAM) deferral account or the Flow-through deferral account, such that 18 customers are kept whole from any variances in load that might be caused by factors such as the 19 COVID-19 pandemic.

- 20
- 21
- 22

FORTIS BC^{**}

| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 26 |

- 5.3 Please recalculate the forecast and the delivery rate impacts using the following alternative forecast methodologies. Please also discuss the likelihood of each of these scenarios occurring and why.
 - Scenario 1 Using the average net additions for the period between 2017 to 2019; and
 - Scenario 2 Using the 2019 customers as the base as opposed to the 2020 customers.
- 7 8

1

2

3

4

5

6

9 Response:

Please refer to Figure 1 below which shows the 2022 commercial customer count forecast as filed and the two alternative scenarios requested. Please also refer to Figure 2 for the 2022 commercial demand forecast as filed and the two alternative scenarios requested. As FEI does not have actual market data from the commercial sector that would support these alternative scenarios, FEI is not able to comment on the likelihood of either of these scenarios occurring.

15 As shown in the tables in Section 3.2 of Appendix A2, the variance in commercial demand 16 between forecast and actual for 2020 using FEI's existing forecasting method was very low at just 17 -1.9 percent, despite the fact the forecast was prepared entirely with pre-COVID-19 pandemic 18 data. Given the low historical variance, it is not necessary to apply untested subjective 19 adjustments to FEI's current forecasting methodology. Furthermore, FEI's view is that it is not 20 appropriate to apply subjective changes to forecast methods each year without proper research 21 and supporting market data testing. Without research and testing, there is no basis to conclude 22 that such subjective changes would actually increase the accuracy of the forecast. Please also 23 refer to the response to BCUC IR1 5.2.











Figure 2 – Commercial Customer Demand Forecast for Alternative Scenarios





Table 1 below provides the delivery rate impact based on the two alternative scenarios and
 compared against the proposed 2022 delivery rate change of 8.07 percent.

3 4

5

 Table 1: Forecast Delivery Rate Change for Alternative Commercial Customer Additions

 Scenarios

| | As-Filed | Scenario 1 | Scenario 2 |
|--|----------|------------|------------|
| 2022 Forecast Delivery Rate Change (%) | 8.07% | 8.04% | 7.96% |

As Table 1 shows, the difference in the 2022 forecast delivery rate change amongst all scenarios
(i.e., forecast as filed, Scenario 1 and Scenario 2) is small.

8 For the reasons provided above and in the response to BCUC IR1 5.2, FEI considers its current

9 forecasting method to be the most appropriate approach.



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 29 |

| 1 | 6.0 | Reference: | LOAD FORECAST |
|--------|-----|--------------|--|
| 2 | | | Exhibit B-2, Section 3.3.4, pp. 25-26 |
| 3 4 | | | Natural Gas for Transportation and Liquefied Natural Gas (LNG) Demand |
| 5 | | On page 25 d | of the Application, FEI provides Figure 3-11: |

On page 25 of the Application, FEI provides Figure 3-11:

Figure 3-11: Actual (A), Projected (P) and Forecast (F) Demand for CNG & LNG¹¹



6

7 Further on pages 25 to 26 of the Application, FEI states that the 2022 LNG (non-NGT) load is forecast to: 8

| 9 | [] increase as a result of expanded LNG exports as restrictions due to the |
|----|--|
| 10 | COVID-19 pandemic continue to be lifted. The COVID-19 pandemic caused issues |
| 11 | with the destination ports and international shipping which resulted in significant |
| 12 | issues for FEI's customers, including significant increases to the cost of shipping |
| 13 | and limited availability of space on ships into and out of China. The 2021 Projected |
| 14 | and 2022 Forecast include volumes from three prospective export customers, and |
| 15 | the 2022 Forecast represents an approximate 2.2 PJs increase from the 2021 |
| 16 | Projected volume. |

- 17 6.1 Please explain whether the three prospective export customers mentioned in the 18 preamble above represent firm loads.
- 19

20 Response:

- 21 The three prospective export customers are expected to represent firm loads, but are currently 22 uncontracted.
- 23
- 24
- 25



- 16.2Please discuss the level of certainty FEI has in its LNG (non-NGT) demand2forecast for 2022 and why.
- 4 Response:

5 The 2022 Forecast demand is reflective of current discussions with customers and the best 6 available market information at the time. FEI is aware of challenges in the current export market, 7 as described in the preamble, which may cause further delays in providing LNG supply to these 8 customers. Any variance from forecast and actual LNG (non-NGT) demand will be captured in 9 the Flow-through deferral account and will be returned to or recovered from FEI's customers in 10 subsequent years through amortization of the Flow-through deferral account.

11
12
13
14
6.3 Please provide a sensitivity analysis showing how a decrease in LNG (non-NGT)
15 loads of -25%, -20%, -10% and -5% impacts the 2022 delivery rates.
16
17 <u>Response:</u>

18 The following table shows the impact of a 5%, 10%, 20% and 25% decrease in LNG (non-NGT)

19 load on the 2022 delivery rates.

| | 2022 | 2022 | Changes in Delivery |
|-------------|---------------|-------------|----------------------------|
| Sensitivity | Forecast (PJ) | Rate Change | Rate Increase (%) |
| Base | 3.1 | 8.07% | 0.00% |
| -5% | 2.9 | 8.16% | 0.09% |
| -10% | 2.8 | 8.25% | 0.18% |
| -20% | 2.5 | 8.44% | 0.36% |
| -25% | 2.3 | 8.53% | 0.46% |

20

- 21
- 22
- 23
- 23 24
- 25

6.4 Please explain the reasons for the variance between 2021 projected and the 2020 actual results for the LNG (non-NGT) category.

2627 **Response:**

28 The reason for the variance is due to a forecast increase in LNG (non-NGT) load from the three

29 prospective LNG (Non-NGT) customers in 2021, which is based on discussions with customers

30 and the best available market information at the time.



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

| 1 | 7.0 | Reference: | LOAD FORECAST |
|----------------------|----------------------------|--|--|
| 2 | | | Exhibit B-2, Section 11, Schedules 1, 17 to 19, pp. 95, 118–120 |
| 3 | | | Revenue Requirement and Rate Changes for 2022 |
| 4 5 6 7 | | FEI present provides fur 2022 in Sc December 3 | the summary of rate change for 2022 in Schedule 1 in Section 11. FEI ther details regarding energy volume sold and revenue at existing rates for hedule 17; the revenue at existing and revised rates for the year ending 31, 2022 in Schedule 19; and the cost of energy for 2022 in Schedule 18. |
| 8 9 10 11 | | 7.1 In ta requ and assu | ble format, please provide the impact to FEI's revenue surplus/deficiency and ested rate change for 2022, if the gross load forecast is -10%, -5%, 0%, +5%, +10% less/more than the forecast presented in the Application, respectively, iming all else equal: |
| 12 | | • | Residential; |
| 13 | | • | Commercial; |
| 14 | | • | Industrial; |
| 15 | | • | Compressed Natural Gas (CNG) and LNG load; and, |
| 16 | | • | Equal adjustment to the demand across all rate classes. |
| 17 18 | | Plea | se provide all inputs and assumptions made. |
| 19 20 21 22 | | 7.1.4 | Please also provide, if possible, a revised Schedule 1, and Schedules 17 through 19 for year 2022 respectively, in a functional excel spreadsheet with the above sensitivity analysis. |
| 23 | <u>Respo</u> | onse: | |
| 24 25 | Please surplu | e refer to the s/deficiency a | e table below for the impact of varying load forecasts on FEI's revenue and the requested 2022 delivery rate change. |
| 26 27 28 29 | Variar Stabili accou | nces between zation Adjus nt. The result in the amort | the forecast and actual delivery margin are captured in either the Revenue tment Mechanism (RSAM) deferral account or the Flow-through deferral ting revenue requirement impacts are returned to or recovered from customers ization of these deferral accounts in subsequent years. In other words |

through the amortization of these deferral accounts in subsequent years. In other words, 29 30 customers are kept whole for any demand forecast variances with the respective deferral 31 accounts.

With regard to the request for revised Schedules 1 and 17 through 19 for each scenario, FEI is 32 33 unable to provide this information as it would require extensive effort to manually create the 80 individual schedules (5 customer scenarios times 4 sensitivity ranges times 4 financial schedules). 34 35 As the financial schedules provided in Section 11 are system-generated, there is not a readily available working excel model to provide the requested information. However, in order to be 36 37 responsive to this information request, FEI has created the attached excel spreadsheet (please 38 refer to Attachment 7.1) which recreates the requested financial schedules from Section 11 and



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 32 |

- 1 provides a drop-down list under the "Select Scenario" tab so that users can observe the impact
- 2 of the various scenarios on the financial schedules. Please also refer to Attachment 7.1 for the
- 3 excel spreadsheet of the below sensitivity analysis which provides all inputs and assumptions.

| Scenarios | -10% | -5% | 0% | 5% | 10% |
|--|---------|------------|--------|------------|------------|
| Residential (RS 1) | | | | | |
| Revenue deficiency/(surplus) (\$000s) | 111,537 | 91,510 | 71,483 | 51,455 | 31,428 |
| 2022 Delivery Rate Change (%) | 13.19% | 10.57% | 8.07% | 5.68% | 3.40% |
| | | | | | |
| Commercial (RS 2, 3, 23) - excl. CNG | | | | | |
| Revenue deficiency/(surplus) (\$000s) | 91,919 | 81,701 | 71,483 | 61,265 | 51,047 |
| 2022 Delivery Rate Change (%) | 10.63% | 9.33% | 8.07% | 6.84% | 5.63% |
| | | | | | |
| Industrial (RS 4, 5, 6, 7, 22, 25, 27) - excl. CNG | | | | | |
| Revenue deficiency/(surplus) (\$000s) | 76,808 | 74,165 | 71,483 | 68,744 | 65,954 |
| 2022 Delivery Rate Change (%) | 8.73% | 8.40% | 8.07% | 7.74% | 7.40% |
| CNG and LNG (RS 3, 23, 5, 25, 6P, 46) | | | | | |
| Revenue deficiency/(surplus) (\$000s) | 72,055 | 71,916 | 71,483 | 70,164 | 68,844 |
| 2022 Delivery Rate Change (%) | 8.14% | , 8.12% | 8.07% | , 7.92% | , 7.77% |
| | | | | | |
| All Rate Schedules & LNG RS 46 | | | | | |
| Revenue deficiency/(surplus) (\$000s) | 137,872 | 104,844 | 71,483 | 37,181 | 2,827 |
| 2022 Delivery Rate Change (%) | 16.82% | 12.30% | 8.07% | 4.05% | 0.30% |



4

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

Page 33

1 D. COST OF GAS

2 8.0 Reference: COST OF GAS

Exhibit B-2, Section 4, Table 4-1, p. 29

Cost of Gas Calculation

5 FEI sets out the forecast cost of gas at existing rates, by Rate Schedule group in Table 4-6 1 on page 29 of the Application.

- 8.1 Please provide a breakdown of the calculated cost of gas amount presented in
 Table 4-1, including the assumed load, corresponding cost of gas rates, and
 Unaccounted for Gas (UAF), for each rate class. Please provide all inputs and
 assumptions made.
- 11 12 <u>Response:</u>

As noted on page 28 of the Application, with the exception of the Core Market Administration Expense (CMAE) costs, FEI is not seeking approval of the forecast gas costs in this Application. The forecast cost of gas is required in the determination of FEI's forecast of the total revenue requirement included in the Application and is therefore provided in Section 4 for informational purposes. The total cost of gas has been determined by multiplying forecast sales volumes by the unit gas cost recovery charges for each rate schedule. The cost of gas rates were based on the following:

- the 2022 Forecast and 2021 Projected midstream \$/GJ is based on the Q4, 2020 gas cost
 report³;
- the 2022 Forecast and 2021 Projected commodity \$/GJ is based on the Q2, 2021⁴ gas cost report;
- the 2021 Approved midstream \$/GJ is based on the Q4, 2019⁵ gas cost report; and
- the 2021 Approved commodity \$/GJ is based on the Q2, 2020⁶ gas cost report.
- 26
- FEI has provided the following three tables that show the individual detail used to calculate the
- FEI has provided the following three tables that show the individual det cost of gas amounts included in Table 4-1 of the Application.

³ Order G-314-20.

⁴ Letter L-15-21.

⁵ Order G-306-19.

⁶ Letter L-35-20.



FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) Submission Date: September 28, 2021

Page 34

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

| Forecast 2022 | Commodity (TJ) (1) | UAF (TJ) (2) | Midstream (\$/GJ) (3) | Commodity (\$/GJ) (4) | UAF (\$/GJ) (5) | Cost of Gas ¹ (\$/GJ) (6) | Cost of Gas ² (\$000's) (7) |
|---------------------------------|--------------------------|--------------------|-----------------------------|-----------------------------|-----------------------|--|--|
| Residential | | | | | | | |
| Rate Schedule 1 ³ | 81,494 | - | 1.350 | 2.897 | - | 4.25 | 346,101 |
| Commercial | | | | | | - | - |
| Rate Schedule 2 ³ | 29,000 | - | 1.373 | 2.897 | - | 4.27 | 123,827 |
| Rate Schedule 3 ³ | 24,885 | - | 1.148 | 2.897 | - | 4.04 | 100,657 |
| Rate Schedule 23 | - | 25 | - | - | 2.832 | 2.83 | 70 |
| Industrial | | | | | | - | - |
| Rate Schedule 4 | 160 | - | 0.830 | 2.844 | - | 3.67 | 586 |
| Rate Schedule 5 | 9,420 | - | 0.812 | 2.844 | - | 3.66 | 34,441 |
| Rate Schedule 6 | 20 | - | 0.082 | 2.844 | - | 2.93 | 59 |
| Rate Schedule 7 | 6,601 | - | 0.830 | 2.844 | - | 3.67 | 24,251 |
| Rate Schedule 22 | - | 161 | - | - | 2.832 | 2.83 | 457 |
| Rate Schedule 25 | - | 55 | - | - | 2.832 | 2.83 | 156 |
| Rate Schedule 27 | - | 27 | - | - | 2.832 | 2.83 | 77 |
| Bypass and Special Rates | | | | | | - | - |
| Rate Schedule 22 - Firm Service | - | 65 | - | - | 2.832 | 2.83 | 185 |
| Rate Schedule 25 | - | 6 | - | - | 2.832 | 2.83 | 17 |
| Rate Schedule 46 | 4,650 | - | 0.830 | 2.844 | - | 3.67 | 17,085 |
| Total | 156,231 | 340 | | | | | 647,970 |

1

| Projection 2021 | Commodity (TJ) (1) | UAF (TJ) (2) | Midstream (\$/GJ) (3) | Commodity (\$/GJ) (4) | UAF (\$/GJ) (5) | Cost of Gas ¹ (\$/GJ) (6) | Cost of Gas ² (\$000's) (7) |
|---------------------------------|--------------------------|--------------------|-----------------------------|-----------------------------|-----------------------|--|--|
| Residential | (-/ | (-/ | (0) | (-7 | (0) | (0) | (7) |
| Rate Schedule 1 ³ | 80,795 | - | 1.350 | 2.897 | - | 4.25 | 343,128 |
| Commercial | | | | | | - | - |
| Rate Schedule 2 3 | 28,829 | - | 1.373 | 2.897 | - | 4.27 | 123,095 |
| Rate Schedule 3 ³ | 24,532 | - | 1.148 | 2.897 | - | 4.04 | 99,229 |
| Rate Schedule 23 | - | 28 | - | - | 2.087 | 2.09 | 59 |
| Industrial | | | | | | - | - |
| Rate Schedule 4 | 143 | - | 0.830 | 2.844 | - | 3.67 | 526 |
| Rate Schedule 5 | 9,034 | - | 0.811 | 2.844 | - | 3.66 | 33,021 |
| Rate Schedule 6 | 20 | - | 0.082 | 2.844 | - | 2.93 | 59 |
| Rate Schedule 7 | 6,186 | - | 0.830 | 2.844 | - | 3.67 | 22,727 |
| Rate Schedule 22 | - | 190 | - | - | 2.087 | 2.09 | 397 |
| Rate Schedule 25 | - | 63 | - | - | 2.087 | 2.09 | 131 |
| Rate Schedule 27 | - | 32 | - | - | 2.087 | 2.09 | 66 |
| Bypass and Special Rates | | | | | | - | - |
| Rate Schedule 22 - Firm Service | - | 80 | - | - | 2.087 | 2.09 | 166 |
| Rate Schedule 25 | - | 7 | - | - | 2.087 | 2.09 | 14 |
| Rate Schedule 46 | 2,273 | - | 0.830 | 2.844 | - | 3.67 | 8,353 |
| Total | 151,813 | 399 | | | | | 630,972 |



FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application)

Page 35

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

| Approved 2021 | Commodity (TJ) (1) | UAF (TJ) (2) | Midstream (\$/GJ) (3) | Commodity (\$/GJ) (4) | UAF (\$/GJ) (5) | Cost of Gas ¹ (\$/GJ) (6) | Cost of Gas ² (\$000's) (7) |
|---------------------------------|--------------------------|--------------------|-----------------------------|-----------------------------|-----------------------|--|--|
| Residential | | | | | | | |
| Rate Schedule 1 ³ | 79,332 | - | 1.097 | 2.326 | - | 3.42 | 271,529 |
| Commercial | | | | | | - | - |
| Rate Schedule 2 ³ | 28,937 | - | 1.123 | 2.326 | - | 3.45 | 99,816 |
| Rate Schedule 3 ³ | 26,204 | - | 0.946 | 2.279 | - | 3.23 | 84,511 |
| Rate Schedule 23 | - | 34 | - | - | 2.421 | 2.42 | 83 |
| Industrial | | | | | | - | - |
| Rate Schedule 4 | 149 | - | 0.716 | 2.279 | - | 2.99 | 446 |
| Rate Schedule 5 | 8,169 | - | 0.716 | 2.279 | - | 3.00 | 24,466 |
| Rate Schedule 6 | 23 | - | 0.130 | 2.279 | - | 2.41 | 56 |
| Rate Schedule 7 | 5,924 | - | 0.716 | 2.279 | - | 2.99 | 17,742 |
| Rate Schedule 22 | - | 184 | - | - | 2.421 | 2.42 | 446 |
| Rate Schedule 25 | - | 72 | - | - | 2.421 | 2.42 | 174 |
| Rate Schedule 27 | - | 34 | - | - | 2.421 | 2.42 | 81 |
| Bypass and Special Rates | | | | | | - | - |
| Rate Schedule 22 - Firm Service | - | 77 | - | - | 2.421 | 2.42 | 187 |
| Rate Schedule 25 | - | 6 | - | - | 2.421 | 2.42 | 15 |
| Rate Schedule 46 | 5,470 | - | 0.716 | 2.279 | - | 2.99 | 16,381 |
| Total | 154,208 | 407 | | | | | 515,935 |

1

2 Table Notes:

3 ¹ Cost of Gas (Column 6) = Columns 3 + 4 + 5

4 ² Cost of Gas (Column 7) = (Columns 1 + 2) X (Column 6)

Rate Schedules (RS) 1 – 3 are based on a blended rate of FEI's current commodity cost recovery charge and average marketer rate for RS 1-3 for unbundled customers.


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

Ε. 1 **OTHER REVENUE**

| 2 | 9.0 | Refere | ence: (| OTHER REVENUE | | | |
|----------------------|--|--|---------------------------------|---|--|--|--|
| 3 | | | E | Exhibit B-2, Section 3.3.4, p. 24; Section 5.2.4.3, p. 33 | | | |
| 4 | | | (| CNG and LNG Service Revenue Forecast | | | |
| 5 | | On pa | ge 33 of t | he Application, FEI states: | | | |
| 6 7 8 | | | [] The recoveri than the | e forecast of station recoveries as Other Revenue does not include es from spot volume and excess volume (i.e., fuelling customer uses more ir contracted minimum take-or-pay volume)16. | | | |
| 9 | | Footno | ote 16 sta | ites: | | | |
| 10 11 12 | | | Station i and LNC minimur | revenue recoveries from spot and excess volume are recorded in the CNG G Recoveries deferral account. CNG and LNG Station recoveries under m take-or-pay contracts are recorded in Other Revenue. | | | |
| 13 | On page 24 of the Application, FEI states: | | | | | | |
| 14 15 16 17 | | [] As directed in Order G-86-15, FEI has included the forecast of demand provided to customers under spot purchase agreements (i.e., not under firm take- or-pay commitments) in the total NGT [Natural Gas for Transportation] and non- NGT LNG demand. | | | | | |
| 18 19 | | 9.1 | Please of the NGT | clarify whether FEI has included a forecast for spot and excess volumes in demand forecast. If not, please explain why not. | | | |
| 20 21 22 | | | 9.1.1 | If so, please explain why a forecast for station revenue recoveries from spot and excess volumes is not included in Other Revenue when the forecast demand is included in the calculation of the delivery rate. | | | |
| 23 24 25 26 | | | 9.1.2 | If so, please clarify whether FEI has included a forecast of the costs associated with spot and excess volumes in the calculation of the delivery rate. | | | |
| 27 | <u>Respo</u> | onse: | | | | | |

28 The preamble refers to two separate and un-related spot and excess volumes related to LNG and 29 CNG services. As explained below, FEI includes spot and excess LNG demand under RS 46 in 30 its demand forecast, but does not include spot and excess volumes related to its LNG and CNG

31 fueling stations. 32 Section 3.3.4 of the Application is specifically related to FEI's delivery demand forecast. The sentence referenced on page 24 of the Application is referring to LNG delivery demand under RS 33 34 46: "As directed in Order G-86-15, FEI has included the forecast of demand provided to 35 customers under spot purchase agreements (i.e., not under firm take-or-pay commitments) in the 36 total NGT and non-NGT LNG demand." [Emphasis added.] For RS 46 LNG customers taking



LNG service without a Contract Demand as defined in the tariff for RS 46, the volumes are considered spot volume, and a spot premium of \$0.25 per GJ is applied to these customers' RS 46 LNG Facility Charge. Additionally, for RS 46 LNG customers with a Contract Demand, the volume that exceeds the contract demand is considered excess volume and is also subject to the \$0.25 per GJ spot premium. As stated on page 24 of the Application, these spot and excess delivery volumes are included in FEI's 2022 LNG demand forecast shown in Table 3-2 of the Application, and therefore, are included in the calculation of the 2022 delivery rates.

8 Section 5.2.4.2 of the Application is specifically related to revenues from FEI's CNG and LNG 9 fueling stations. The referenced sentence on page 33 of the Application is referring to the spot 10 and excess volumes of FEI's CNG and LNG fueling stations, and has no relation to the spot and excess volume under RS 46 delivery as discussed above: "The forecast of station recoveries as 11 12 Other Revenue does not include recoveries from spot volume and excess volume (i.e., fueling 13 customer uses more than their contracted minimum take-or-pay volume)". [Emphasis added.] 14 For FEI's fueling station customers that do not have a minimum take-or-pay agreement, their 15 volumes are considered spot volume to the station and their station rates include a \$1 per GJ 16 spot charge in addition to the capital and O&M station rates. Furthermore, for customers that 17 have a minimum take-or-pay agreement, any volume that exceeds the minimum agreed level is 18 considered excess volume for the fueling station. As stated in Section 5.2.4.3 of the Application 19 as well as footnote 16 of the Application, station revenues recovered under the fueling stations' 20 spot and excess volumes are not included in the forecast of FEI's other revenue, as they are 21 captured in the CNG and LNG Recoveries deferral account. FEI does not forecast fueling station 22 spot and excess volume; therefore, the 2022 spot and excess recoveries from fueling stations are 23 not included in the calculation of the 2022 delivery rates.



1 F. O&M EXPENSE

| 2 | 10.0 | Reference: | FORMULA O&M EXPENSE |
|--------|------|-------------------------------|--|
| 3 | | | Exhibit B-2, Section 6.2.1, Table 6-3, p. 38 |
| 4 | | | Integrity Management |
| 5 6 | | The following System Opera | is an extract of Table-6-3 on page 38 of the Application, showing FEI's ations, Integrity and Security New/Incremental Spending: |

Table 6-3: System Operations, Integrity and Security New/Incremental Spending (\$ millions)

| Line No. | | Ар | Approved Base O&M | | 2020 Formula O&M ¹ | | Actual 2020 O&M | | 2020 Forecast/Actual Variance | | Cumulative Forecast/Actual Variance ² | |
|-------------|----------------------|----|----------------------|----|----------------------------------|----|--------------------|----|-------------------------------------|----|--|--|
| 1 | Integrity Management | \$ | 1.350 | \$ | 1.381 | \$ | 1.147 | \$ | (0.234) | \$ | (0.234) | |

7

8

9

10.1 Please explain why Actual 2020 O&M was \$0.234 less than the 2020 Formula O&M (\$1.147 million - \$1.361 million) for Integrity Management.

10

11 <u>Response:</u>

The general timing of the expenditures for activities such as inspection of non-piggable transmission pipe (e.g., facilities piping in stations), and inspection and assessment of compressor stations contributed to the lower spending in 2020 for incremental funding approved for Integrity Management. The mid-year approval of the 2020-2024 MRP Application and the need to engage technical resources impacted FEI's ability to fully progress incremental integrity activities in 2020.

18 As noted in the Application, the funding for the categories of new/incremental O&M approved for 19 System Operations, Integrity and Security was developed based on the anticipated requirements 20 over the term of the MRP, recognizing that the expenditures may vary from year to year depending 21 upon factors such as the availability of resources (i.e., labour vacancies) and the timing of 22 activities. Over the term of the MRP, FEI anticipates that the total new/incremental spending 23 required in the combined categories of System Operations, Integrity and Security will be relatively 24 close to the cumulative approved formula amounts, and there will continue to be variations from 25 year to year.



Page 39

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

1 G. RATE BASE

| 2 | 11.0 | Reference: | RATE BASE |
|------------------|------|------------------------------------|--|
| 3 | | | Exhibit B-2, Section 7.2.3.1, Table 7-5, pp. 51–53 |
| 4 | | | Flow-Through Capital Expenditures – Biomethane |
| 5 | | On page 51 c | of the Application, FEI states: |
| 6 7 8 9 | | FEI is factor reven uncer | afforded flow-through treatment for certain capital items due to a variety of s, including their uncontrollable nature, because they drive incremental ues, because they are related to clean growth initiatives, or because of the tainty in scope, costs and timing. |
| 10 | | On page 52 c | of the Application, FEI states: |
| 11 12 13 | | The 2 \$8.04 exper | 2021 Projected and 2022 Forecast Biomethane capital expenditures are 4 million and \$40.255 million, respectively []. The 2021 Projected capital aditures are less than 2021 Approved by \$12.106 million. |
| 14 15 | | Also, on page Expenditures | e 52, FEI provides Table 7-5, showing a breakdown of Biomethane Capital : |

| Line | | | Approved | Projected | Forecast |
|------|---------------------------|-------------|----------|-----------|----------|
| No. | Description | Order | 2021 | 2021 | 2022 |
| 1 | City of Vancouver | G-235-19 | 17.300 | 3.800 | 24.000 |
| 2 | Kelowna | E-19-12 | 0.120 | 1.168 | 0.005 |
| 3 | Salmon Arm | G-194-10 | - | 0.241 | - |
| 4 | Lulu Island WWTP | E-13-13 | 0.020 | 0.112 | - |
| 5 | Dickland Farms | E-13-20 | 1.230 | 0.890 | 0.100 |
| 6 | Ren Energy | G-60-20 | 1.480 | 0.850 | 0.150 |
| 7 | Seabreeze Farms | E-11-19 | - | 0.277 | |
| 8 | Capital Regional District | E-15-21 | 543 | 0.350 | 7.000 |
| 9 | City of Surrey | E-3-16 | | 0.007 | - |
| 10 | Net Zero Waste | To be filed | - | 0.100 | 4.000 |
| 11 | Delta RNG | To be filed | - | 0.100 | 5.000 |
| 12 | Misc Modifications | Misc. | | 0.150 | - |
| 13 | Total Biomethane CAPEX | | 20.150 | 8.044 | 40.255 |

Table 7-5: Biomethane Capital Expenditures (\$ millions)

- 16
- 17 On page 53 of the Application, FEI states:
- FEI has not been able to finalize a design-build contract with an appropriate party
 to execute the City of Vancouver landfill project. The selection process has been
 longer than expected and there is now a need to adjust the project execution
 approach which will delay the spending.
- 11.1 Please explain what issues FEI has had in the tender and selection process in
 finalizing a design-build contract for the City of Vancouver landfill project in 2021.
 As part of the response, please explain how this impacts the project schedule.



2 Response:

FEI had encountered two main issues in the procurement process to tender and select a design build contractor for the City of Vancouver landfill project.

5 The first issue was that the original design-build proposal prices were significantly higher than the 6 original project cost estimate budget, despite having a competitive tender procurement process 7 with multiple bidders. FEI opted to structure the RFP in a way that required the contractors to 8 price more risk related to project delivery, compared to the allowances for project risk in the 9 original budget, which pushed the bids higher. Further, FEI received feedback from bidders 10 indicating that the COVID-19 pandemic negatively affected the supply chain for major equipment 11 and materials that also increased prices. FEI spent several months with the preferred proponent 12

12 to negotiate and allocate risk and cost savings for the project.

The second issue was that the proponents were not able to agree to commercial terms regarding performance security that FEI required for the project, to ensure the facility would perform as required to remain compliant with the Greenhouse Gas Reduction (Clean Energy) Regulation and

16 previous BCUC decision regarding this project.

FEI originally selected the design-build project delivery method because this method was considered the most efficient in terms of cost and schedule; however, as a result of these unforeseen issues, FEI decided to cancel the design-build RFP and alter the project delivery method to a design-bid-build. Using this method, FEI believes that it can negotiate both a better performance guarantee (directly with equipment vendors) and reduce costs related to risk and equipment and materials procurement that was originally borne by the primary contractor.

Therefore, FEI anticipates that the revised project execution plan and overall cost of the project will allow FEI to remain compliant with the original BCUC decision and the Greenhouse Gas Reduction (Clean Energy) Regulation. The change in the project delivery method impacts the project schedule by delaying the completion date of the facility from Q1 2021 to Q4 2023.

- 27
- 28
- 29

30

31

- 11.2 Please explain any impacts, financial or otherwise, to the City of Vancouver project being behind schedule.
- 32
- 33 **Response:**

The financial impacts of the project being behind schedule are limited to a shift in the spend profile, as project expenditures will move to a future period. This delay in schedule will also shift when expected supply starts to be delivered. Other than a shift in the project schedule, FEI does not anticipate an increase in costs and does not anticipate any other impacts.

- 38
- 39

00



2

3

- 11.3 Please provide a project description for each of the "Net Zero Waste" and "Delta RNG" biomethane projects.
- 4 <u>Response:</u>
- 5 The following is a project description summary of the Net Zero Waste and Delta RNG projects.

6 Net Zero Waste (Supplier) will own and operate an anaerobic digester and upgrader facility 7 capable of purifying raw biogas to Renewable Natural Gas (biomethane). The project will be 8 constructed on an existing compost facility located in Abbotsford, BC. The facility currently 9 receives municipal and commercial/industrial organic waste from the local area. FEI will own and 10 operate interconnection facilities on site to monitor and inject RNG into the natural gas distribution 11 system. The Supplier has agreed to pay a contribution in aid of construction for the full cost of FEI's interconnection facilities. FEI filed the biomethane purchase agreement (BPA) between FEI 12 13 and Net Zero Waste with the BCUC on September 10, 2021. The project is anticipated to be 14 operational by the end of 2022.

15 Delta RNG (Supplier) will own and operate a facility capable of purifying the remainder of the 16 landfill gas produced at the City of Vancouver landfill, which is not contracted to FEI. This portion 17 of landfill gas is sold to a greenhouse operator located near the City of Vancouver landfill in Delta, 18 BC. The greenhouse operator has arranged to sell the landfill gas to the Supplier to be upgraded 19 to RNG. The RNG will in turn be sold to FEI for use in the RNG program. FEI will own and operate 20 interconnection facilities to monitor and inject the RNG into the natural gas distribution system. 21 The Supplier will pay for the cost of FEI's interconnection facilities. FEI anticipates filing the BPA 22 with Delta RNG by the end of 2021. The project is expected to be operational by the end of 2022 23 or early 2023. 24

- 25
- 26 27

- 11.4 Please explain why the Forecast 2022 capital expenditures are reasonable considering the Approved 2021 capital expenditure are projected to be underspent.
- 2930 Response:
- 31 FEI provides the following table and explanations for the variances in the 2021 Approved and 32 Projected capital expenditures.



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

| | Approved | Projected | Variance |
|--------------------------|----------|-----------|----------|
| | 2021 | 2021 | 2021 |
| City of Vancouver | 17.300 | 3.800 | (13.500) |
| | | | |
| Kelowna | 0.120 | 1.168 | |
| Lulu Island | 0.020 | 0.112 | |
| Dickland Farms | 1.230 | 0.890 | |
| Ren Energy | 1.480 | 0.850 | |
| Planned 2021 Capital | 2.850 | 3.020 | 0.170 |
| | | | |
| Salmon Arm | - | 0.241 | |
| Seabreeze | - | 0.277 | |
| City of Surrey | - | 0.007 | |
| Misc. Modifications | - | 0.150 | |
| Unplanned 2021 Capital | - | 0.674 | 0.674 |
| | | | |
| CRD | - | 0.350 | |
| Net Zero Waste | - | 0.100 | |
| Delta RNG | | 0.100 | |
| New 2021 Projects | - | 0.550 | 0.550 |
| - | | | |
| Total Biomethane Capital | 20.150 | 8.044 | (12.106) |

2 The reason why the 2021 Projected capital is less than approved is due to the delay in the City of

3 Vancouver project. Please refer to the response to BCUC IR1 11.1 for more information regarding

4 this delay.

1

5 For the capital FEI originally forecast in 2021, the variance related to these projects is small.

6 The remaining spending was either unplanned spending on existing projects or new projects.

7 In 2021, FEI has experienced some unplanned repairs related to the Salmon Arm, Seabreeze, 8 and City of Surrey facilities, resulting in some required capital expenditures for these projects.

9 In addition, new projects arose since FEI filed the 2020 and 2021 Annual Review that will require capital investment in 2021. Each of these project's Biomethane Purchase Agreements (BPAs) 10 11 either have been or will be filed with the BCUC. To date, the CRD BPA has been accepted by 12 the BCUC, the Net Zero Waste BPA has been filed, and the Delta RNG BPA is expected to be 13 filed soon.

There will continue to be some variances between forecast and actual project spending, as new 14 15 projects are developed and as unanticipated spending is required. The overall 2022 Forecast included in the Application is based on the best available information at this time; individual 16 17 projects will be filed with the BCUC as they are finalized.

18

19

FORTIS BC^{**}

- 1 2
- 2 3

4

11.4.1 Please explain the impacts to the ratepayer and shareholder if projects are delayed and FEI underspends its biomethane capital expenditures budget for 2022.

5 **Response:**

Biomethane capital expenditures are part of FEI's Clean Growth Initiatives, and as discussed in
Section 7.2.3.1 of the Application, FEI is approved to treat these expenditures as flow-through
under the MRP. For biomethane-related projects, any variances in the cost of service resulting
from over or underspending of capital forecasts (due to, for example, a delay in the project) will
be captured by the BVA deferral account and will be recovered from or returned to customers
through the BVA rate rider⁷. Therefore, both shareholders and customers will be held whole if the
biomethane capital budget is over or underspent.

In general, if a project is delayed, meaning a delay in the start of the project, and no other factors have changed, shareholder and ratepayer impacts would be limited to timing differences. If the actual capital expenditures are lower than forecast due to reasons other than a delay (i.e., the spending itself is less), then the amount that is added to rate base will also be lower, resulting in

17 lower depreciation expense and return on rate base.

18 However, as shown in the table below (shown in \$ millions), except for the \$5 thousand in upgrade

19 work for Kelowna, none of the 2022 Forecast biomethane capital expenditures are expected to

20 be added to rate base in 2022. As such, there would essentially be no impact to 2022 delivery

21 rates due to variances in the forecast biomethane capital expenditures.

| | | | Approved | Projected | Forecast | Expected Rate Base |
|----------|---------------------------|-------------|----------|-----------|----------|--------------------|
| Line No. | Description | Order | 2021 | 2021 | 2022 | Additions for 2022 |
| 1 | City of Vancouver | G-235-19 | 17.300 | 3.800 | 24.000 | 2024 |
| 2 | Kelowna | E-19-12 | 0.120 | 1.168 | 0.005 | 2022 |
| 3 | Salmon Arm | G-194-10 | - | 0.241 | - | n/a |
| 4 | Lulu Island WWTP | E-13-13 | 0.020 | 0.112 | - | n/a |
| 5 | Dickland Farms | E-13-20 | 1.230 | 0.890 | 0.100 | 2023 |
| 6 | Ren Energy | G-60-20 | 1.480 | 0.850 | 0.150 | 2023 |
| 7 | Seabreeze Farms | E-11-19 | - | 0.277 | - | n/a |
| 8 | Capital Regional District | E-15-21 | - | 0.350 | 7.000 | 2024 |
| 9 | City of Surrey | E-3-16 | - | 0.007 | - | n/a |
| 10 | Net Zero Waste | To be filed | - | 0.100 | 4.000 | 2024 |
| 11 | Delta RNG | To be filed | - | 0.100 | 5.000 | 2024 |
| 12 | Misc Modifications | Misc. | - | 0.150 | - | n/a |
| 13 | Total Biomethane CAPEX | | 20.150 | 8.044 | 40.255 | |

²² 23

⁷ The BVA rider is calculated based on the projected current year ending balance of the BVA non-rate base deferral account, transferred to the rate base BVA rate rider account for recovery through the BVA rider.



| 1 | 12.0 | Reference: | RATE BASE |
|-------------|------|-------------------------------|---|
| 2 3 4 | | | Exhibit B-2, Section 7.2.3.1, Table 7-6, p. 54; Greenhouse Gas Reduction (Clean Energy) Regulation (GGRR), Sections 1, 2(3)(a)(i), 2(3)(b 1) ⁸ |
| 5 6 | | | Flow-Through Capital Expenditures – NGT and Tilbury T1A truck load-out |
| 7 8 | | On page 54 o Assets Capita | of the Application, FEI provides Table 7-6, showing a breakdown of the NGT al Expenditures: |

| Line | | | Approved | Projected | Forecast |
|------|------------------------------------|-------------|----------|-----------|----------|
| No. | Description | BCUC Order | 2021 | 2021 | 2022 |
| 1 | Cumberland (CNG) | N/A | 0.950 | - | |
| 2 | Waste Connections Abbotsford (CNG) | G-25-21 | 0.080 | 0.279 | - |
| 3 | Prince George (CNG) | N/A | 1.000 | - | - |
| 4 | District of Cowichan (CNG) | N/A | 1.000 | - | |
| 5 | GFL Abbotsford (CNG) | To be filed | | 1.994 | |
| 6 | Annacis Island (CNG) | To be filed | - | 1.136 | - |
| 7 | Port Kells (LNG) | Filed | | 0.071 | |
| 8 | Waste Connections Expansion (CNG) | G-110-20 | - | 0.447 | - |
| 9 | Waste Management Expansion (CNG) | To be filed | | - | 0.751 |
| 10 | Surrey (CNG) | To be filed | - | - | 1.500 |
| 11 | LNG Tanker (LNG) | GGRR | 2.000 | - | 2.000 |
| 12 | T1A Truck Load-out | GGRR | - | 12.750 | 4.420 |
| 13 | Total NGT Capital Expenditures | | 5.030 | 16.677 | 8.671 |

Table 7-6: NGT Assets Capital Expenditures (\$ millions)

- 10 Further on page 54 of the Application, FEI states:
- 11The capital expenditures for NGT Assets listed in Table 7-6 above are Prescribed12Undertakings under the GGRR, with station recovery rates (i.e., capital and O&M13rates) approved individually by the BCUC for each CNG or LNG station. Therefore,14the capital estimates provided here are not being requested for approval as part of15the annual review process, but are provided to include the current estimates for16NGT Assets capital expenditures in customer rates.
- 17 The inclusion of the Tilbury 1A (T1A) truck load-out project as an NGT Asset is the 18 primary reason for the difference between the 2021 Projected and 2021 Approved 19 amount of capital expenditures in Table 7-6 above. The Tilbury 1A truck load-out 20 project, which involves two new LNG tanker truck load-outs at FEI's Tilbury facility for transferring LNG from the T1A storage tank to LNG tank trailers, is a prescribed 21 22 undertaking under section (3)(a)(ii) of the GGRR²⁹ The project began in 2019 and 23 is expected to complete by 2023. FEI did not include this project in the table 24 showing NGT Assets capital expenditures in the Annual Review for 2020 and 2021

⁸ https://www.bclaws.gov.bc.ca/civix/document/id/complete/statreg/102_2012



- 1Delivery Rates; however, since it has been in work-in-progress and not affecting2rate base, this is a presentation issue only as it did not affect the rate calculations3for either year.
- 4 In footnote 29 on page 54 of the Application, FEI states:
- 5 Section (3)(a)(ii) One or more tanker truck load-outs for the purposes of providing 6 within British Columbia liquefied natural gas fuel and fueling services to owners of 7 vehicles that operate on liquefied natural gas or to owners or operators of marine 8 vehicles that operate on liquefied natural gas.
- 9 Section 2(3)(b.1) of the GGRR states: "expenditures, during the undertaking period, on a
 10 tanker truck load-out do not exceed \$10 million, and on administration and marketing do
 11 not exceed \$250 000;"
- Section 1 of the GGRR defines "undertaking period" as "the period that ends on March31, 2022.
- 14 Section 2(3)(a)(i) of the GGRR states:
- 15(3) A public utility's undertaking that is in the class defined as follows is a16prescribed undertaking for the purposes of section 18 of the Act:
- 17(a) the public utility, before March 31, 2022, enters into a binding commitment to18construct and operate, or purchase and operate, one or more of the following:
- (i) one or more liquefied natural gas tank trailers or liquefied natural gas fuelling
 stations for the purposes of providing within British Columbia liquefied natural gas
 fuel and fuelling services to owners of vehicles that operate on liquefied natural
 gas;
- 12.1 Please provide a project description for each of the following capital expenditures
 and the anticipated BCUC filing date for each project:
 - i. Waste Management Expansion (CNG);
- 26 ii. Surrey (CNG);
- 27 iii. GFL Abbotsford (CNG); and
- 28 iv. Annacis Island (CNG).
- 29

30 Response:

Below is a description of each project and the estimated BCUC filing date. Since the design
specifics of the stations are confidential at this time, FEI is only able to provide limited details on
the station specifics.

34 **Waste Management Expansion (CNG):** An expansion to their current CNG facility which 35 includes additional fill posts. FEI expects to file an application by December 2021.



1 **Surrey (CNG):** This slow fill station will accommodate a fleet of CNG vehicles. FEI expects to file an application in Spring of 2022.

GFL Abbotsford (CNG): This fast fill station will accommodate GFL Environmental Inc. and
 other customers requiring CNG. FEI expects to file an application before the end of November
 2021.

Annacis Island (CNG): This fast fill station will accommodate multiple customers requiring CNG.
 FEI expects to file an application before the end of November 2021.

- 8
- 9
- 10
- 12.2 Please discuss whether FEI expects to incur costs after March 31, 2022 with
 respect to any of the projects listed in Table 7-6. If so, please quantify and explain
 how FEI plans to request recovery of these costs.

14 15 <u>Response:</u>

16 FEI anticipates incurring costs of approximately \$2.464 million after March 31, 2022 for the

17 projects listed in Table 7-6. A breakdown of the forecast costs is below.

| Project | Forecast Expenditures after March 31, 2022 (\$ millions) |
|----------------------------------|---|
| Waste Management Expansion (CNG) | 0.563 |
| Surrey (CNG) | 1.500 |
| T1A Truck Load-out | 0.401 |
| Total | 2.464 |

18

FEI expects to include recovery of these costs in its annual review filings, as the 2022 forecast projects listed in Table 7-6, excluding the Waste Management Expansion (CNG), will be prescribed undertakings under the GGRR and will be subject to the applicable cost recovery requirements under the *Clean Energy Act*. The Waste Management CNG station was constructed under the General Terms and Conditions (GT&Cs), therefore the future expansion and cost recovery of the Waste Management CNG station will be completed under the GT&Cs and will not be affected by the GGRR.

Under Section 2(2) and (3) of the GGRR, FEI need only enter into a binding commitment before March 31, 2022 to construct and operate, or purchase and operate, CNG stations, LNG tanker trailers or tanker truck load-outs. The GGRR does not require the assets to be operational, or all expenditures to be made, before March 31, 2022.

30 The limits on "expenditures" during the undertaking period in section 2(2) and (3) of the GGRR

31 must be read in conjunction with Section 2(4) of the GGRR, which defines these "expenditures"

32 as including "binding commitments to incur expenditures in the future". Therefore, it is sufficient



- 1 for FEI to have made binding commitments during the undertaking period to incur the 2 expenditures; FEI need not actually make the expenditures during the undertaking period.
- 3 Therefore, for the projects in Table 7-6 (excluding the Waste Management CNG station) to be a
- 4 prescribed undertaking, FEI is required to enter into binding commitments prior to March 31, 2022
- 5 for the fueling stations, tanker trailers and tanker truck load-outs. Consistent with this criterion,
- 6 FEI expects to have made the requisite binding commitments prior to March 31, 2022 and would
- 7 only proceed with the investments if the binding commitments were in place.
- Further, FEI is monitoring its expenditures under section 2(2) and (3) of the GGRR and will not
 exceed any of the applicable spending limits in the GGRR.
- 10 The 2022 Forecast projects listed in Table 7-6, excluding the Waste Management Expansion
- 11 (CNG), are GGRR prescribed undertakings and are subject to the applicable GGRR cost recovery
- 12 requirements. FEI expects to file an application for the Surrey CNG station, which will provide an
- 13 opportunity for the BCUC to confirm that the station meets the GGRR requirements.
- Please also refer to FEI's response to BCUC IR1 12.7 for further discussion on how the LNG tanker trailer and tanker truck load-outs meet the criteria for prescribed undertakings under the
- 16 GGRR.
- 17
- 18
- 19
- 2012.3Please explain why FEI did not include the T1A Truck Load-Out project in the table21showing NGT Assets capital expenditures in the FEI Annual Review for 2020 and222021 Delivery Rates.
- 23

24 <u>Response:</u>

The exclusion of the T1A Truck Load-out project from Section 7 of the 2020 and 2021 Annual
Review (either in the NGT Assets or the CPCN and Special Projects sections) was an oversight.

As mentioned in Section 7.2.3.1 of the Application, the T1A Truck Load-out project has been in

28 FEI's work-in-progress since 2019 and was included for the first time in FEI's 2019 BCUC Annual

29 Report under CPCNs and Special Projects⁹. FEI also notes that the project, while not specifically

30 identified, was recorded as part of the "Change in Work in Progress" (Line 21) in Schedule 5,

31 Section 11 – 2020 and 2021 in FEI's 2020 and 2021 Annual Review application.

While preparing the 2020 BCUC Annual Report in early 2021, FEI concluded that since the T1A Truck Load-out project is a prescribed undertaking under the GGRR, it would be more appropriate to list the capital expenditures related to this project with FEI's other NGT assets that are also

Page 5.1– "Additions to Gas Plant in Service (CPCNs) and Special Projects" of the 2019 BCUC Annual Report, Line 18 – Capital Expenditures and Line 29 – Closing WIP.



GGRR prescribed undertakings. As such, in the 2020 BCUC Annual Report¹⁰ and in this 1

2 Application, FEI has included the T1A Truck Load-out project together with all other NGT assets,

including all GGRR prescribed undertakings, under the NGT Assets flow-through capital 3 4 expenditures.

5 Since the 2020 BCUC Annual Report was prepared and filed in 2021 (i.e., subsequent to the 6 completion of FEI's 2020 and 2021 Annual Review proceeding), the omission of the T1A Truck

7 Load-out project from Section 7 was not able to be corrected until the current Application.

8 As mentioned above, the T1A Truck Load-out project has been in FEI's work-in-progress since 9 2019; therefore, the omission of this project from the project descriptions in Section 7 of previous 10 annual reviews has no implications to the delivery rate calculations.

- 11 12 13 14 Please further explain the scope and need for the T1A Truck Load-Out project. 12.4 15 16 **Response:** 17 The T1A Truck Load-out project consists of two additional LNG truck loading bays with dedicated 18 weigh scales to be constructed adjacent to the existing truck load-out bays at the T1A plant. There 19 are currently two truck load-out bays at Tilbury. The two additional truck load-outs that are
- 20 included as part of the T1A Truck Load-out project are expected to be needed to serve growth in 21 demand from the domestic marine, remote power generation, rail and mine haul markets.
- 22
- 23
- 24
- 25
- 26 27

28

29

- 12.4.1 Please provide a table that breaks down the cost estimate of the T1A Truck Load-Out project by tanker truck load out and by year. As part of the response, please identify the undertaking year of the expenditures for these tanker truck load outs, as defined in the GGRR.
- 30 Response:

31 Please refer to Table 1 below for the cost breakdown of the T1A Truck Load-out project by the 32 number of load-outs and by year (i.e., 2019 and 2020 actuals, 2021 projected, and 2022 forecast).

33 Please also refer to Table 2 below for the cost breakdown in terms of the GGRR undertaking

- 34 years. FEI notes the capital expenditures shown in Table 1 are based on the calendar year while
- the GGRR undertaking years (Table 2) are based on a fiscal year of April 1 to March 31. 35

¹⁰ Page 4, Line 11 – NGT Assets in the 2020 BCUC Annual Report.



- 1 Please refer to the response to BCUC IR1 12.2 for discussion of how the prescribed undertaking
- 2 for LNG tanker truck load-outs in section 2(3) of the GGRR is not limited to expenditures made
- during the undertaking period (as defined in the GGRR), but also includes binding commitments 3
- 4 to incur expenditures in the future. Please also refer to the response to BCUC IR1 12.7 for how
- 5 the tanker truck load-outs meet the criteria for a prescribed undertaking as defined in section 2(3)
- 6 of the GGRR.
- 7

Table 1: Annual Cost Breakdown by Calendar Year (\$)

| | 2019 | 2020 | 2021 | 2022 | |
|-------------------------|---------|-----------|------------|-----------|------------|
| FEI CapEx Calendar Year | Actual | Actual | Projected | Forecast | Total |
| Truck Load-out Bay 1 | 352,911 | 762,060 | 6,465,295 | 1,697,893 | 9,278,158 |
| Truck Load-out Bay 2 | 352,911 | 762,060 | 6,465,295 | 1,697,893 | 9,278,158 |
| Contingency | | | 585,219 | 258,465 | 843,684 |
| Total | 705,821 | 1,524,119 | 13,515,810 | 3,654,250 | 19,400,000 |

⁸ 9

Table 2: Annual Cost Breakdown by GGRR Undertaking Year (\$)

| | Apr 2019 - | Apr 2020 - | Apr 2021 - | Apr 2022 - | |
|-----------------------|------------|------------|------------|------------|------------|
| | Mar 2020 | Mar 2021 | Mar 2022 | Mar 2023 | |
| GGRR Undertaking Year | Actual | Actual | Projected | Forecast | Total |
| Truck Load-out Bay 1 | 466,142 | 2,053,029 | 6,558,537 | 200,450 | 9,278,158 |
| Truck Load-out Bay 2 | 466,142 | 2,053,029 | 6,558,537 | 200,450 | 9,278,158 |
| Contingency | - | - | 843,684 | - | 843,684 |
| Total | 932,283 | 4,106,058 | 13,960,757 | 400,901 | 19,400,000 |

- 10 11
- 12
- 13
- 14 15

12.4.2 Please provide the total administration and marketing costs on tanker truck load-outs during the undertaking period.

16

17 **Response:**

18 FEI has not incurred any administration and marketing costs to date under the GGRR for tanker 19 truck load-outs.

- 20
- 21
- 22
- 23 12.5 Please confirm, or explain otherwise, that FEI has entered a binding commitment 24 before March 31, 2022 to construct and operate, or purchase and operate, the 25 LNG tanker(s) in Table 7-6 (line 11).
- 26 27
- 12.5.1 If confirmed, please provide further details of the binding commitment.



2 Response:

FEI expects to purchase an additional LNG tanker (i.e., tank trailer) in early 2022, as reflected in Table 7-6 of the Application, but has not yet entered into a binding contract to purchase the LNG tanker. Consistent with the requirements of the GGRR, FEI will only purchase the LNG tanker if it enters into a binding commitment to purchase and operate the LNG tanker before March 31, 2022 and the expenditure is within the GGRR spending limit.

- 8
- 9
- 10
- 12 12.6 Please explain why the Forecast 2022 capital expenditures are reasonable
 12 considering the Approved 2021 capital expenditures (excluding the T1A Truck
 13 Load-out) are projected to be underspent.
- 14

15 **Response:**

FEI's NGT station capital expenditure forecasts are reasonable as they are based on currentdiscussions with customers and the best available market information at the time.

The 2021 Approved capital expenditures included the purchase of a specialized marine LNG tanker which will not occur in 2021. This purchase was to support two marine vessels that were expected to be in-service in early 2021 and are now expected to be operational in late 2021 and early 2022. As such, FEI has delayed the marine LNG tanker purchase to 2022. Excluding that LNG tanker (and the T1A Truck Load-out), FEI's 2021 Projected expenditures are \$897 thousand higher than Approved.

The 2021 forecast CNG stations at Cumberland, Prince George and District of Cowichan were not constructed. Instead, stations at Annacis Island, (GFL) Abbotsford, Waste Connections Abbotsford and Port Kells were constructed, along with an expansion to an existing Waste Connections station. There will continue to be some variability in the locations of and expenditures for fueling stations between forecast and actual.

- 29
- 30
- 31 32
- 33

12.6.1 Please explain the impacts to the ratepayer and shareholder if FEI over or underspends its NGT capital expenditures budget for 2022.

3435 <u>Response:</u>

NGT capital expenditures are part of FEI's Clean Growth Initiatives, and as discussed in Section
 7.2.3.1 in the Application, FEI is approved to treat these expenditures as flow-through under the
 MRP. For NGT related projects, any variances in the cost of service resulting from over or



- 1 underspending of capital forecasts (due to for example, a delay in the project), will be captured in
- 2 the Flow-through deferral account and will be recovered from or returned to customers through
- 3 amortization of the Flow-through deferral account in delivery rates. Therefore, both shareholders
- 4 and customers will be held whole if the NGT capital budget is over or underspent.
- 5 Please refer to the response to BCUC IR1 11.4.1, which provides further explanation in the event
 6 that a project is delayed, or if the actual capital expenditures are lower than forecast.
- Additionally, for NGT projects related to fueling stations, the Capital Rate charged to the fueling station customer is designed based on the capital expenditures of the station. Per the agreements with all fueling customers, if the actual capital expenditures are over or under by more than 2
- 10 percent, the Capital Rate will be amended to ensure recovery from the fueling customers¹¹, which
- 11 further protects non-bypass customers from large variances in NGT capital expenditures.
- FEI notes that the majority of the 2022 Forecast for NGT assets is related to the T1A truck loadouts, which are expected to be completed in 2022, as discussed in the response to BCUC IR1 12.4.1. As such, they will not enter FEI's rate base until January 1, 2023 and there will not be an impact to the 2022 rates if there is any variance in spending due to the truck load-outs
- 15 impact to the 2022 rates if there is any variance in spending due to the truck load-outs.
- 16
 17
 18
 19 12.7 Please confirm, or explain otherwise, that FEI plans to file a separate application for the BCUC to determine whether its LNG Tanker and T1A Truck Load-out
- for the BCUC to determine whether its LNG Tanker and T1A Truck Load-out projects listed in Table 7-6 meet the criteria to be a prescribed undertaking under the GGRR.
 - 12.7.1 If confirmed, please discuss when FEI plans to file this application(s).
- 2412.7.2If not confirmed, please discuss whether FEI is requesting the BCUC, in
this current proceeding, to make a determination on whether these
projects meet the criteria to be a prescribed undertaking. Why or why
not? Please discuss whether there is inconsistency between this
approach and FEI's usual practice with respect to other prescribed
undertakings.
- 30

- 31 Response:
- 32 FEI is not planning to file a separate application to determine if the LNG tanker (tank trailer) and
- the T1A Truck Load-out projects listed in Table 7-6 are prescribed undertakings under the GGRR.
- 34 FEI submits that this determination is relatively straightforward and should be made in the context
- 35 of this proceeding, as the only BCUC approval triggered by these undertakings is the recovery of
- 36 the costs in rates, which is properly the subject of FEI's Annual Reviews.

¹¹ For CNG and LNG stations that are prescribed undertakings under the GGRR, recovery of the stations' cost of service is based on a minimum recovery of 80 percent for a 5-year term or 60 percent for a 7-year term.



- 1 FEI clarifies there is no inconsistency with FEI's usual practice with respect to other prescribed
- 2 undertakings. For example, FEI's applications for approval of fueling service agreements for CNG
- 3 and LNG fueling stations are driven by the requirement of sections 2(2)(c) and 2(3)(c) of the
- GGRR to recover at least 80 percent or 60 percent of the station's forecast operating costs from
 the fueling customers with a take-or-pay agreement with minimum terms of 5 or 7 years,
 respectively. This requires FEI to apply for BCUC approval of station recovery rates for the
 individual fueling customers. However, there is no similar requirement for LNG tank trailers or
- 8 LNG tanker truck load-outs as there is no specific rate or other approval required for FEI to
- 9 proceed with these expenditures. Although FEI is not required to seek approval for these
- 10 expenditures or to set any specific rates, approval is required for the recovery of the costs through
- 11 FEI's delivery rates. As such, FEI's Annual Review or revenue requirements applications are the
- 12 appropriate proceeding for the BCUC to review these expenditures.
- 13 The following describes how FEI's tanker trailer and the T1A truck load-outs meet the criteria for
- 14 a prescribed undertaking under section 2(3) of the GGRR.

15 Section 2(3)(a)(i): Binding Commitment before March 31, 2022 for Tank Trailer

- 16 As discussed in the response to BCUC IR1 12.5, FEI expects to make a binding commitment
- 17 before March 31, 2022 to purchase and operate the LNG tank trailer listed in Table 7-6, and will
- 18 only proceed with the purchase if such a binding commitment is in place. There is no ambiguity
- 19 about what an LNG tank trailer is. It is simply a trailer that has a storage tank for LNG. A picture
- 20 of the type of LNG tank trailer that FEI intends to purchase is provided below.
- 21 The purpose of purchasing the tank trailer is to provide, within BC, LNG and LNG fueling service
- 22 to owners of vehicles including marine vehicles that operate on LNG. Specifically, as part of FEI's
- 23 NGT program, FEI will use the tank trailer to transport LNG from FEI's Tilbury and Mount Hayes
- 24 LNG facilities to customer locations.





1 Section 2(3)(a)(ii): Binding Commitment before March 31, 2022 for Tanker Truck Load-Outs

FEI made binding commitments with a design-build-contract in October 2020 to construct and
operate the Tilbury 1A tanker truck load-outs. As defined in the GGRR, a "tanker truck load-out"
means equipment for transferring liquefied natural gas from a storage tank to a liquefied natural
gas tank trailer. The tanker truck load-outs at Tilbury 1A consist of equipment used to transfer

- 6 LNG from the Tilbury 1A tank to an LNG tank trailer. A picture of a tanker truck load-out is provided
- 7 below (with an LNG tanker being loaded with LNG as shown).

8 As with FEI's tank trailers, the purpose of purchasing and operating the tanker truck load-outs is

- 9 to provide, within BC, LNG and LNG fueling service to owners of vehicles including marine
- 10 vehicles that operate on LNG. The tanker truck load-outs enable FEI to transfer LNG from its
- 11 Tilbury facility to LNG tank trailers, which can then be transported to customer locations.



12

13 Section 2(3)(b.1) and (3.01): Maximum Spending Limits Not Exceeded

FEI monitors its spending on prescribed undertakings to ensure that none of the maximum
spending limits will be exceeded. None of the spending limits applicable to LNG tank trailers and
LNG tanker truck load-outs have been or will be exceeded:

2(3)(b.1): The only requirements specific to LNG truck load-outs is a maximum of \$10 million per load-out. The current capital expenditure forecasts for the proposed two LNG



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 54 |

truck load-outs are less than \$10 million each. Please refer to the responses to BCUC IR1 12.4.1 and 12.4.2.

- 2(3)(b.1): FEI's administration and marketing costs to date related to the prescribed
 undertaking in section 2(3) (i.e., LNG tank trailers, LNG stations and tanker truck load outs) are less than \$250,000.
 - **2(3.01):** FEI's total expenditures to date under the prescribed undertakings in section 2(2) and 2(3) are less than \$62.5 million, which is the maximum spending allowed under Section 2(3.01) of the GGRR.



13.0 Reference: RATE BASE Exhibit B-2, Section 7.3, Table 7-7, pp. 57 Plant Additions On page 57 of the Application, FEI provides Table 7-7, showing a Reconciliation of 202 Capital Expenditures to Plant Additions:

Table 7-7: Reconciliation of 2022 Capital Expenditures to Plant Additions (\$ millions)

| Line No. | Description | Forecast | Reference |
|----------|--|-----------|--|
| 1 | Formula Growth Capex | 87.501 | Section 11, Schedule 4, Line 10 |
| 2 | Forecast Sustainment & Other Capex | 163.580 | Section 11, Schedule 4, Lines 16 + 17 |
| 3 | Flow through Capex | 50.619 | Section 11, Schedule 4, Sum of Lines 13 through 15 |
| 4 | Total Gross Regular Capex | 301.700 | Sum of Lines 1 through 3 |
| 5 | Capitalized Overheads | 53.328 | Section 11, Schedule 5, Line 19 |
| 6 | AFUDC | 3.200 | Section 11, Schedule 5, Line 20 |
| 7 | Change in Work in Progress | (43.717) | Section 11, Schedule 5, Line 22 |
| 8 | Total Regular Additions to Plant | 314.511 | Sum of Lines 4 through 7 |
| 9 | | | |
| 10 | Special Projects and CPCN Capex | | |
| 11 | Tilbury Expansion Project | 1.668 | Section 11, Schedule 5, Line 7 |
| 12 | LMIPSU | 15.470 | Section 11, Schedule 5, Line 8 |
| 13 | IGU | 78.811 | Section 11, Schedule 5, Line 9 |
| 14 | Pattullo Gasline Replacement | 105.976 | Section 11, Schedule 5, Line 10 |
| 15 | AFUDC | 3.988 | Section 11, Schedule 5, Line 26 |
| 16 | Change in Special Projects and CPCN Work in Progress | (106.069) | Section 11, Schedule 5, Line 28 |
| 17 | Total Special Projects and CPCN Additions to Plant | 99.844 | |
| 18 | | 3 | - / 2 |
| 19 | Total Plant Additions | 414.355 | 7) . |

6

- 7 13.1 Please provide a breakdown, by project, of the work in progress amounts from
 8 Table 7-7 (lines 7 and 16).
- 9

10 Response:

- 11 A breakdown by project of the work in progress amounts shown on Lines 7 and 16 in Table 7-7
- 12 in the Application is provided in the tables below.
- 13

Line 7: Change in Regular Capital Work in Progress (\$ millions)

| Project nome | 2022 |
|--------------------------------------|----------|
| Project name | Forecast |
| City of Vancouver Biomethane Project | (24.000) |
| Tilbury 1A Truck Load-out (GGRR) | (4.420) |
| Other RNG | (15.297) |
| Total | (43.717) |



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 56 |

Line 16: Change in Special Projects and CPCN Work in Progress (\$ millions)

| Project name | 2022 | | |
|--------------|-----------|--|--|
| Project name | Forecast | | |
| LMIPSU | 12.716 | | |
| IGU | (12.809) | | |
| PGR | (105.976) | | |
| Total | (106.069) | | |

2 3

1

4

5 6

- 13.2 Please explain how FEI determines the work in progress amounts from Table 7-7 (lines 7 and 16).
- 7 8

9 Response:

- 10 The change in work in progress amounts shown on Lines 7 and 16 in Table 7-7 in the Application
- 11 represent the difference between the closing and opening work in progress balances, which is
- 12 equivalent to the net amount of total plant additions less capital expenditures, AFUDC and
- 13 capitalized overheads.
- 14 FEI assumes all regular capital expenditures will be added to plant in the same year, while only
- Flow-through and Major Project capital expenditures are evaluated for timing differences andrecognized in the Change in Work in Progress forecasts.



| 1 | 14.0 | Refere | ence: | DEFERRED CHARGES |
|----------------------------|------|------------------------------|---------------------------------------|--|
| 2 | | | | Exhibit B-2, Section 7.5.1, Table 7-8, pp. 59–64 |
| 3 | | | | New Deferral Accounts |
| 4 | | On pag | ge 59 of | the Application, FEI states: |
| 5 6 | | | FEI is related | seeking approval of three new rate base deferral accounts to capture costs I to the following regulatory processes: |
| 7 | | | • | Transportation Service Report; |
| 8 | | | • | 2021 Generic Cost of Capital Proceeding; and |
| 9 | | | • | 2021 Renewable Gas Program Comprehensive Review. |
| 10 11 12 | | In Tab identifi accour | ole 7-8 ed in the nts. | on pages 59 to 64 of the Application, FEI addresses the considerations e BCUC's Regulatory Account Filing Checklist with respect to these deferral |
| 13 14 | | On pa reques | iges 63 sted nev | and 64 of the Application, FEI provides the forecast additions to the v rate base deferral account as follows: |
| 15 16 | | • | Transp 2023 = | portation Service Report: 2021 = 0.100 million, 2022 = \$0.250 million and \$0.150 million |
| 17 18 | | • | 2021 (million | Generic Cost of Capital Proceeding: $2021 = 0.750 million, $2022 = 0.750 and $2023 = 0.350 million |
| 19 20 | | • | 2021 F 2022 = | Renewable Gas Program Comprehensive Review: 2021 = \$0.330 million and \$0.435 million |
| 21 22 23 24 25 | | 14.1 | Please regulat reques costs. | e discuss whether FEI has a quantitative threshold (e.g. anticipated tory costs > X) or qualitative considerations when determining whether to at establishment of a new deferral account to capture regulatory proceeding of so, please provide the quantitative threshold or qualitative considerations. |
| 26 | Resp | onse: | | |
| 27 | | 1000 00 | t hovo | a apacifia quantitativa thrashold for determining whether to request |

FEI does not have a specific quantitative threshold for determining whether to request 27 28 establishment of a new regulatory proceeding cost deferral account, as it is accepted practice that 29 regulated utilities should be provided the opportunity to recover their prudently incurred costs. For 30 clarity, the costs recorded in the regulatory proceeding cost deferral accounts are not included 31 within FEI's formula O&M under the MRP. The regulatory costs included within FEI's formula 32 O&M are FEI's internal labour (i.e., the FTEs) within the applicable FEI departments to support 33 the utility's applications, in particular, the Regulatory department, though resources from other 34 departments are also required. The costs included within the applied for regulatory cost deferral 35 accounts are primarily related to BCUC costs and PACA costs, and any costs for FEI's external 36 counsel and external consultants or experts. These costs are driven by the regulatory process



1 established for the application, and as such are largely outside of FEI's control and vary

- 2 considerably depending on the nature/size of the application, the regulatory process established
- 3 by the BCUC, and the number of interveners that participate.

4 While FEI does not have a quantitative threshold in place for determining whether to request establishment of a new deferral account to capture regulatory proceeding costs, FEI does 5 consider gualitative factors. The gualitative factors that FEI considers include the nature of the 6 7 filing or application, the potential review process the BCUC may initiate, the likely duration of the 8 proceeding, the extent of involvement of other parties in the process, and the potential for 9 interveners to claim participant cost awards. FEI typically requests new deferral accounts to 10 capture regulatory proceeding costs when it is anticipated that there will be a public hearing 11 process with intervener participation.

- 12
- 13

14

29 30

31

32

33

34

35

Further, on pages 63 and 64 of the Application, with respect to the 2021 Renewable Gas
Program Comprehensive Review, FEI states:

- 17On January 29, 2021, the BCUC issued Order G-35-21, determining that a18regulatory review process with two stages was warranted, with the first stage19reviewing the BERC [Biomethane Energy Recovery Charge] Rate assessment20report and the second stage consisting of a comprehensive review of FEIs21Renewable Gas (RG) Program. [...] [Footnote references removed]
- FEI is seeking approval to establish a deferral account to capture the costs related to development of the RG Program comprehensive review application and expected regulatory proceeding costs.
- 14.2 Please discuss whether FEI captures the regulatory costs associated with the regulatory review of the BERC Rate assessment report (i.e. Stage 1) in a deferral account. If so, please identify the deferral account, the amounts captured by year, and the BCUC order that approved the establishment of the account.
 - 14.2.1 If not, please explain why a deferral account should be established to capture the regulatory costs associated with the comprehensive review of FEI's Renewable Gas Program (i.e. Stage 2). Please also explain how the BERC Rate assessment report (i.e. Stage 1) costs were recovered from FEI's ratepayers.

36 **Response:**

FEI captured the costs associated with the regulatory review of the BERC Rate Assessment
 Report (i.e., Stage 1 costs) in the Biomethane Variance Account (BVA) deferral account. To date,

39 the amount recorded is approximately \$31 thousand (\$7 thousand in 2020 and approximately \$24



- 1 thousand to date in 2021) pre-tax. This deferral account was approved by Order G-194-10, which
- 2 allows for direct administrative costs related to the Biomethane Program to be recorded to the
- 3 BVA deferral account. Given that the BERC Rate Assessment Report was a compliance filing¹²,
- 4 FEI did not expect significant costs associated with the BCUC's review of the compliance filing.
- 5 As such, a separate deferral account for the Stage 1 proceeding costs was not sought.
- A separate deferral account is being requested to capture the costs associated with the
 comprehensive review of FEI's Renewable Gas Program (i.e., Stage 2 costs) as the costs are
 forecast to be much more substantial compared to Stage 1 costs. As stated in FEI's Annual
 Review for 2022 Delivery Rates, additions to the 2021 RG Program Comprehensive Review
 deferral account are forecast to be \$0.330 million in 2021 and \$0.435 million in 2022.

¹² Directed by the BCUC in the Decision and Order G-133-16 in the matter of *FEI's 2015 Application for Approval of Biomethane Energy Recovery Charge Rate Methodology* (2015 BERC Proceeding).



1 15.0 Reference: DEFERRED CHARGES

2

3

9

11

12

13

Exhibit B-2, Section 7.5.2.1, Table 7-11, pp. 66–67

COVID-19 Customer Recovery Fund Deferral Account

On page 66 of the Application, FEI provides the following table that shows the account
receivables that are considered unrecoverable due to the COVID-19 pandemic, which
have been added to the COVID-19 Customer Recovery Fund deferral account. FEI also
states that "these amounts are in excess of the normal course forecast bad debt expense
that is recognized in indexed-based O&M."

Table 7-11: Unrecoverable Revenue Amounts (\$ millions)

| | 2020 Actual | 2021 Projected | 2022 Forecast |
|-------------------------|-------------|----------------|---------------|
| Opening Balance | - | 0.064 | 0.502 |
| Transfers | - | - | 0.280 |
| Additions ³⁵ | 0.088 | 0.600 | 1.700 |
| Tax | (0.024) | (0.162) | (0.535) |
| Ending Balance | 0.064 | 0.502 | 1.947 |

- 10 Further on page 66 of the Application, FEI states:
 - The unrecovered revenue recorded in the deferral account includes:
 - any remaining balances associated with the bill payment deferral program, described in section (a), that resulted from customers' inability to pay; and
- any unrecovered revenue from all customer classes due to COVID-19,
 including industrial and large commercial customers and those residential
 and small commercial customers that did not participate in the bill payment
 deferral or bill credit relief offerings.
- 18 On page 67 of the Application, FEI states:
- 19During the pilot, 480 customers with past due balances were contacted to20determine impacts of the pandemic. 15 percent of the customers with an average21balance of \$550 confirmed that they were financially impacted by COVID-19 and22will require support to bring their accounts into good standing. This result was23applied to the estimated 3,600 customers with outstanding balances as at June 1,242021 to derive the forecast COVID-19 related unrecoverable revenue deferral25account additions.
- 2615.1Please discuss how the 2022 forecast additions of \$1.7 million was calculated27given that 15 percent of the 480 customers contacted (out of an estimated 3,60028total customers with outstanding balances) confirmed that they were financially29impacted by COVID-19, and the average balance was \$550. If the \$1.7 million is30derived from a calculation, please provide the calculation.



1 **Response:**

- 2 The forecast addition of \$1.7 million for 2022 to the COVID-19 Customer Recovery Fund deferral
- 3 account was based on findings from the pilot project and adjusted to reflect bill payment deferral
- 4 amounts already accounted for.
- 5 Please refer to the table below for the detailed calculation:

| | Lin | e Particulars | | | | | Notes |
|----------------------------|-----------------------|---|--|---|--------------------------|---|---|
| | 1 2 3 | Total Customers Estimated Perce Estimated Numb | Past Due as at June 2, 202 ntage Unrecoverable per of Customers | 1 | | 24,000 15% 3,600 | As determined based on pilot program customer contacts Line 1 x Line 2 |
| 6 | 4 5 6 7 8 | Average Outstar Estimated Total Less: Bill Payme Estimated Unrec | nding Balance Balance nt Deferrals covered Revenue Addition | \$ \$ 000s \$ 000s \$ 000s | \$ \$ \$ | 550 1,980 280 1,700 | Average outstanding account balance for customers in pilot group (Line 3 x Line 5) / 1,000 Embedded in Line 6; however, already accounted for in the deferral account Line 6 - Line 7 |
| 7 8 9 10 11 | ך ר ז f | The average on nowever, this Transfers line emove the b orecast balar | outstanding balance amount has been identified in Table ill payment deferral ice of the deferral a | per cus added a 7-11 of amour ccount. | tor as the nt f | mer inh transfe e Applie from th | erently includes bill payment deferral amounts; ers to the deferral account (please refer to the cation). As such, an adjustment is required to be calculation to avoid double counting in the |
| 12 13 | | | | | | | |
| 14 15 16 17 | | 15.2 | Please provide the and the forecast for business (i.e. not c | e actual or 2022 leemed | or tha ur | project at are c arecove | ted annual bad debt expense for 2018 to 2021 deemed unrecoverable in the normal course of erable due to COVID-19). |
| 18 19 20 21 22 | | | 15.2.1 If there is pre-pand expense (IR), plea | s more t emic (i provide se expl | ha .e. d i ain | n a 10 2018 n the r the ca | percent difference between the 2022 and the and 2019) non-COVID-19 related bad debt response to the preceding information request ause of the differences. |
| 23 | F | Response: | | | | | |
| 24 | | Plagga rafar t | a tha tabla balaw fa | r tha aa | + | | acted and foregoet had debt expense amounte |

24 Please refer to the table below for the actual, projected and forecast bad debt expense amounts 25 for the years requested.



Table 1 - FEI Bad Debt Expense (\$ million) – 2018 through 2022

| | 2018 Actual | 2019 Actual | 2020 Actual | 2021 Projected | 2022 Forecast |
|------------------|--------------------|-------------|-------------|-------------------|------------------|
| Bad Debt Expense | 0.891 ¹ | 1.646 | 1.565 | 1.600 | 2.055 |

2 <u>Note:</u>

¹ In 2018, bad debt expense was very low relative to the previous five years. From 2014 to 2018, the average bad debt expense was approximately \$1.8 million per year compared to the 2018 bad debt expense of \$0.9 million.

6 At this time, the 2022 forecast bad debt expense recognized in O&M is estimated to be in line

7 with the average bad debt expense from 2014 to 2018 of \$1.8 million per year¹³ and higher than

8 the pre-pandemic (i.e., 2018 and 2019) non-COVID-19 related bad debt expense by more than a

9 10 percent difference, primarily due to higher overall revenue from increases in cost of gas and

10 delivery rates since 2019. The COVID-19 related bad debt expense is accounted for in the

11 COVID-19 deferral account and is not included in the numbers provided in this response.

¹³ MRP Application, p. C-20.



5

6

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

1 16.0 **DEFERRED CHARGES Reference:**

- 2 Exhibit B-2, Section 7.5.2.2, p. 69; Order G-128-11 dated July 19, 3 2022, Appendix A to G-128-11, Reasons for Decision, pp. 17–18
 - BFI (presently "Waste Connections") Costs and Recoveries deferral account
 - On page 69 of the Application, FEI states:
- 7 [...] Waste Connections agreed to have the actual excess capital component 8 recoveries of \$0.731 million as of December 31, 2019, and a further \$0.033 million 9 from January 1 to March 31, 2020, be returned by applying the recoveries to the 10 beginning of the five-year renewal period commencing April 1, 2020, thereby 11 reducing the Capital Rate. The resulting impact of this decision was to transfer the 12 \$0.764 million of excess recoveries to capital, as a reduction against the existing plant balance of the assets, thereby reducing rate base. 13
- 14 As a result of the above, a residual balance of \$0.202 million remains in the BFI 15 Costs and Recoveries deferral account related to the tax on the \$0.764 million 16 excess recoveries. Given there is not an approved recovery mechanism for the 17 BFI Costs and Recoveries deferral account, FEI is requesting to amortize this 18 deferral account over one year beginning January 1, 2022, after which time the 19 account will be discontinued.
- 20 On pages 17 and 18 of the BCUC's Reasons for Decision with respect to FEI's Application 21 for approval of a Service Agreement for Compressed Natural Gas Service with Waste 22 Management of Canada Corporation and General Terms and conditions for Compressed 23 Natural Gas and Liquified Natural Gas Service, the BCUC stated:
- 24 The Panel questions whether it is in the interests of FEI's existing ratepayers to 25 bear the costs or risks associated with reducing carbon emissions for the 26 transportation sector when FEI ratepayers represent only a portion of the 27 province's population and, generally speaking, are not directly responsible for 28 those emissions. We are of the opinion that they should not. In our view, it is more 29 appropriate that these costs be borne either by the owners of the vehicles, as they 30 are the emitters, or by the people of the province as a whole, as they are the 31 beneficiaries. [...]
- 32 Thus, the Panel agrees with FEI's approach that the ratepayers be "kept whole," 33 and throughout this decision, we discuss the reasons for our agreement. 34 Consistent with this approach, the Panel finds that while the benefits of GHG 35 emission reduction provides a justification for FEI's proposed NGV [Natural Gas 36 Vehicle] program, FEI's ratepayers must be insulated, to the greatest extent 37 possible, from the costs and risks of the program. [Emphasis removed]

FORTIS BC^{**}

1

2

3

4

5

16.1 Given the BCUC's previous statement that FEI's ratepayers should be "kept whole" and "insulated, to the greatest extent possible, from the costs and risks of the [NGV] program," please explain why the \$0.202 residual balance in the BFI Costs and Recoveries deferral account should be recovered from FEI's ratepayers.

6 **Response:**

FEI notes that the referenced BCUC Order G-128-11 was dated July 19, 2011, not July 19, 2022
as indicated in the reference to the IR. Order G-128-11 preceded both the *Greenhouse Gas Reduction (Clean Energy) Regulation,* under which NGT stations can be prescribed undertakings
pursuant to section 18 of the *Clean Energy Act*, and Direction No. 5 to the BCUC, section 3 of
which requires the BCUC to "treat CNG service and LNG service, and all costs and revenues
related to those services, as part of the utility's natural gas class of service" and "allocate all costs

13 and revenues related to CNG service and LNG service to all applicable customers".

14 The \$0.202 million residual balance in the BFI Costs and Recoveries deferral account is not a

15 cost to Waste Connections (formerly BFI) and recovering the amount from FEI's ratepayers will
16 keep both FEI and customers whole

16 keep both FEI and customers whole.

17 The \$0.202 million is related to income taxes paid¹⁴ for the excess capital recoveries received of 18 \$0.764 million from Waste Connections since 2012, which have been captured in the BFI Costs 19 and Recoveries deferral account. It is FEI's standard regulatory practice to record the tax effect 20 in a net-of-tax deferral account. This enables matching of the taxes or tax benefits to the 21 associated costs. This practice was confirmed in Order G-53-94, page 2:

22 Deferred Account Balances in Rate Base

23 If deferred expenses or credits are included in the utility's actual tax calculation in

- 24 the year they are first recorded, then the amounts shall be recorded in rate base
- 25 on a net of tax basis. If such expenses or credits are not included in the utility's tax
- 26 calculation then the amounts shall be on a before tax basis.

27 As Waste Connections elected to have the total excess recoveries of \$0.764 million returned by 28 lowering their Capital Rate effective April 1, 2020, this effectively meant transferring a credit of 29 \$0.764 million to FEI's plant-in-service against the existing balance for the assets of the Waste Connections station, thereby reducing FEI's rate base. The \$0.764 million will be fully returned 30 31 to customers in future years through depreciation of the plant-in-service balance. Further, since 32 the \$0.764 million was treated as income for tax purposes in each of the years it was received, and the associated tax cost was included in the deferral, FEI has not included the \$0.764 million 33 34 as a credit to its Undepreciated Capital Cost (UCC) pool.

Amortizing the \$0.202 million residual balance of tax in the deferral account for recovery from FEI's customers aligns with transferring the \$0.764 million to FEI's plant-in-service. The \$0.202

¹⁴ The effective rate ranged from 25 percent to 27 percent from 2012 to 2020, resulting in a net effective tax rate of 26.4 percent on the deferral account additions.



- 1 million will be recovered in future customer delivery rates via amortization expense, resulting in a 2 net after-tax amount of \$0.562 million returned to customers via delivery rates. This is consistent 3 with the regular net of tax deferral treatment where the entire after-tax amount in the deferral is 4 recovered from or returned to customers through the amortization of the deferral included in the 5 utility's revenue requirements. The amortization expense/depreciation expense is then added 6 back on the tax schedule in the financial schedules, resulting in the full pre-tax amount being 7 returned to or recovered from customers. 8 In summary, if the tax balance in the deferral were not recovered from FEI's customers, customers
- would actually over-benefit from these transactions. The amount returned to customers would be
 the \$0.764 million in depreciation credits, grossed up for tax purposes via the add-back on the tax
 schedule, for a total benefit of \$1.047 million (\$0.764 million / (1-27%)). Therefore, amortizing the
- 12 net of tax balance in the deferral as proposed is the correct approach and will keep both customers
- 13 and FEI whole.
- 14
- 15
- 16

1716.2Please discuss whether the \$0.202 million residual balance in the BFI Costs and18Recoveries deferral account can be recovered from Waste Connections. For19example, can Waste Connections' Capital Rate be adjusted to take into account20the residual balance (e.g. apply \$0.764 million less \$0.202 million to reduce the21Capital Rate)? If this is possible, please explain why this is not FEI's preferred22treatment for the residual balance.

23

24 **Response:**

Please refer to the response to BCUC IR1 16.1. FEI does not believe it is appropriate to recover
 the residual balance from Waste Connections as it is not a cost of Waste Connections. Doing so

27 will also result in disconnecting the associated tax from the \$0.764 million excess capital revenue

28 which was transferred to FEI's plant-in-service.



| 1 | 17.0 | Refere | ence: | DEFERRED CHARGES |
|----------------------------|-------|-----------------|---|--|
| 2 3 | | | | Exhibit B-2, Section 7.5.2.3, p. 69; Section 8.1, p. 71; Section 12.4, p. 134 |
| 4 | | | | 2017-2018 Revenue Surplus Deferral Account |
| 5 | | On pa | ge 69 o | f the Application, FEI states: |
| 6 7 8 9 | | | [] Fl Surplu 2021. AFUD | El projects a minor remaining credit balance in the 2017 & 2018 Revenue is deferral account of approximately \$0.308 million (after-tax) at the end of This balance is due to the difference between actual and projected/forecast C amounts. |
| 10 11 12 13 14 | | | FEI re deferra for fu amorti accou | equests approval to transfer this deferral account from a non-rate base al account to a rate base deferral account, in order to eliminate the potential ture variances between actual and projected/forecast AFUDC, and to ze the remaining December 31, 2021 balance in 2022, after which time the nt will be discontinued. |
| 15 16 | | On pa weight | ige 71 d ted ave | of the Application, FEI explains that its AFUDC rate is equal to its after-tax rage cost of capital. |
| 17 | | On pa | ge 134 | of the Application, FEI states: |
| 18 19 20 21 22 | | | FEI m deferra non-ra approv to a ra | aintains both rate base and non-rate base deferral accounts. Rate base al accounts are included in rate base and earn a rate base return. In contrast, ate base deferral accounts are outside of rate base and, subject to BCUC val, attract a weighted average cost of capital (WACC) return (which is equal te base return). |
| 23 24 25 26 27 | | 17.1 | Given return 2017 would | that the carrying costs on a non-rate base deferral account are equal to the earned on a rate base deferral account, please explain how transferring the & 2018 Revenue Surplus deferral account to a rate base deferral account eliminate the potential for future variances being captured in this account. |
| 28 | Respo | onse: | | |
| 29 | While | FEI ag | rees th | at the carrying costs and earned return are generally equal whether the |

While FEI agrees that the carrying costs and earned return are generally equal whether the account is rate base or non-rate base attracting a WACC return, the calculation and accounting of the return is fundamentally different.

The return on a rate base deferral account is ultimately embedded in the earned return portion of the current year revenue requirements, with no additional adjustment required to the deferral account balance itself. With no actual or forecast additions to the deferral account, there is no potential for variances.



- 1 In contrast, the WACC return on a non-rate base deferral account is calculated and recorded 2 monthly using the actual deferral balance and approved AFUDC rate. The amount is recorded
- 3 directly in the deferral account itself, thereby resulting in current year additions to the deferral
- 4 account. This creates the potential for variances to exist between the actual and forecast deferral
- 5 additions, which may occur if the forecast was not produced using the same level of precision as
- 6 actuals are recorded. Any variance between the forecast and actual additions would leave a
- 7 residual balance in the deferral that is recovered from/returned to customers in a future year,
- 8 where that amount may then also be subject to future variances that may occur.
- 9 Therefore, transferring these types of residual balances to rate base will ensure the balances are
- 10 fully depleted in the forecast test year, while having no adverse impact on customers.



6

1 H. EARNINGS SHARING AND RATE RIDERS

18.0 Reference: EARNING SHARING AND RATE RIDERS

3Exhibit B-2, Section 10.3.1, Tables 10-1, 10-3, 10-4, pp. 81–82, 84–85;4FEI Annual Review for 2020 and 2021 Rates proceeding, Exhibit B-2,5Section 10.2.1, Tables 10-1, 10-4, pp. 85, 89

BVA Rate Rider

Table 10-1, on pages 81 and 82, in the Application shows projected 2021 biomethane
costs incurred of \$18.754 million (line 10) and biomethane costs recovered of \$7.461
million (line 11). Table 10-1 in the FEI Annual Review for 2020 and 2021 Delivery Rates
application shows projected 2020 biomethane costs incurred of \$9.167 million and
biomethane costs recovered of \$4.465 million.

- 12 18.1 Please explain why the 2021 biomethane costs are projected to be approximately
 13 twice as much as the costs projected for 2020.
- 14

15 **Response:**

16 There are two main drivers of the increase in 2021 projected biomethane costs in this Application

17 compared to the 2020 projected costs included in FEI's 2020 and 2021 Annual Review. The

primary driver of the increase is related to RNG purchase costs. The secondary driver is relatedto O&M costs.

20 RNG purchase costs have increased by \$8.7 million due to an increase in volume and an increase

21 in the average purchase cost. Projected volumes increased by 61 percent from approximately

22 424 TJs to approximately 682 TJs. The increased volumes also resulted in an increase to the

23 average projected RNG purchase price by 57 percent due to the new supply projects.

- O&M costs are projected to increase by 9 percent or \$863 thousand in 2021, as additional resources are required to support existing and new project development. FEI has also restarted the RNG customer education programs in 2021.
- 27
 28
 29
 30 18.2 Please provide the actual 2020 biomethane costs and explain the change from the actual 2020 costs to the projected 2021 costs.
 32

33 Response:

The actual 2020 biomethane costs incurred were \$8.167 million for approximately 306 TJs,

compared to the 2021 projected biomethane costs of \$18.754 million for approximately 682 TJs.



1 The primary reason for the increase in costs is the increased volume, as the current 2021 2 projected volume is approximately 2.23 times the 2020 actual volume.

3 As discussed in the response to BCUC IR1 18.1, the 2021 projected biomethane costs also 4 include amounts for additional resources to support existing and new project development as well as the restarting of customer education programs. These additional O&M costs contribute to the 5 6 increased biomethane costs projected for 2021.

- 7
- 8
- 9
- 18.3
- 10 11
- Please explain why biomethane costs have increased at a faster rate than the biomethane cost recovery in 2021 compared to 2020.¹⁵
- 12

13 Response:

14 There are two main reasons why biomethane costs have increased at a faster rate than the 15 biomethane cost recovery in 2021 compared to 2020:

16 1. FEI has projected 13.2 TJs of purchased RNG remaining as inventory by the end of 2021, 17 and there is no cost recovery associated with these RNG volumes in 2021.

18 2. The biomethane cost recovery is limited to the BERC rate, with any increases 19 disconnected from the cost of biomethane. The increase in the BERC rate is subject to 20 the increase in FEI's cost of gas rates, which for 2021 resulted in an increase to the BERC 21 rate by approximately 12 percent from \$10.535 per GJ to \$11.830 per GJ. In contrast, as 22 discussed in the response to BCUC IR1 18.2, the biomethane costs are projected to increase by approximately 130 percent (from a 2020 actual amount of \$8.167 million to a 23 2021 projected amount of \$18.754 million), primarily due to the increase in volumes and 24 O&M costs. 25

- 26
- 27
- 28 29 In note (c) of Table 10-1, FEI provides a continuity schedule of the total unsold biomethane for 2020 and 2021. 30
- 31 Please expand this continuity schedule to include the forecast amounts for the 18.4 32 remainder of the MRP term (i.e. 2022 to 2024).
- 33

¹⁵ Increase in biomethane cost recovery is approximately $67\% = (\$7.461M/\$4.465M - 1) \times 100$; Increase in biomethane costs is approximately = $105\% = (\$18.754M/\$9.167M - 1) \times 100$.



3

4

5

6

1 Response:

FEI cannot provide an accurate forecast of the amount of unsold biomethane for the remainder of the MRP term at this time. FEI is currently reviewing the Renewable Gas Program and expects to file a Renewable Gas Comprehensive Review application in late 2021. FEI anticipates that the results of the Renewable Gas Comprehensive Review will materially change the demand for biomethane, as service offerings may change in response to government policy, markets, and the increased supply of RNG

- 7 increased supply of RNG.
- 8 FEI has, however, provided the following continuity schedule which expands note (c) in Table 10-
- 9 1 of the Application to 2022, but notes that the embedded assumptions are unlikely to materialize.
- 10 For the purpose of this table, FEI has used the expected volumes of all currently approved supply
- 11 projects as the forecast for 2022. Any additional biomethane purchase agreements that are
- 12 approved will impact the biomethane purchased volumes. FEI has assumed that the 2022
- 13 forecast volumes sold are equal to the 2022 forecast from the Q4, 2020 gas cost report, which is
- 14 based on the current state of the Renewable Gas program.

| | 2020 | 2021 | 2022 |
|---|-----------------|------------------|-----------------|
| Calculation of Adjustment for Unsold Biomethane | <u>Recorded</u> | <u>Projected</u> | <u>Forecast</u> |
| Beginning Quantity Unsold Biomethane (in TJ) | 0.1 | - | 13.2 |
| Biomethane Purchased (in TJ) | 306.0 | 682.0 | 3,179.2 |
| Biomethane Sold (in TJ) | (306.2) | (668.8) | (2,685.7) |
| Ending Total Biomethane Unsold (in TJ) | | 13.2 | 506.7 |
| BERC rate in effect at forecast (in \$/GJ) | | | |
| January 1st effective BERC rate (in \$/GJ) | 11.83 | 11.83 | 11.83 |
| Value of Unsold Biomethane at December 31st | - | 155.7 | 5,994.3 |

- 15 16
- 10
- 17
- 18

19Table 10-4 on page 85 of the Application shows the renewable natural gas (RNG)20customer enrollment projected for 2021 by rate schedule.

| Table 10-4: | RNG | Customers | by Rate | Schedule |
|-------------|-----|-----------|---------|----------|
|-------------|-----|-----------|---------|----------|

| 2021 RNG Projected Participation (Rate Schedule) | Customer Enrollment | |
|---|---------------------|--|
| Short Term | | |
| Rate Schedule 1B | 9,273 | |
| Rate Schedule 28 | 183 | |
| Rate Schedule 3B | 17 | |
| Rate Schedule 11B | 2 | |
| Rate Schedule 5B | 3 | |
| Rate Schedule 30 Off System | - | |
| Long Term | | |
| Rate Schedule 11B | 3 | |
| Total | 9,481 | |



On page 89 of the FEI Annual Review for 2020 and 2021 Delivery Rates application, FEI provided the following table that shows the RNG customer enrollment projected for 2020.

| | | - | - | _ | |
|-------------|-----|-----------|----|------|----------|
| Table 10-4: | RNG | Customers | by | Rate | Schedule |

| 2020 RNG Projected Participation (Rate Schedule) | Customer Enrollment |
|---|---------------------|
| Short Term | |
| Rate Schedule 1B | 10,273 |
| Rate Schedule 2B | 198 |
| Rate Schedule 3B | 15 |
| Rate Schedule 11B | 2 |
| Rate Schedule 5B | 2 |
| Rate Schedule 30 Off System | - |
| Long Term | |
| Rate Schedule 11B | 3 |
| Total | 10,493 |

3

4 The following is an extract of Table 10-3 on page 84 of the Application:

| Line No | Volume and Revenue | 2020 Actual | 2020 Projected | 2020 Variance | 2021 Projected |
|------------|-------------------------|----------------|-------------------|------------------|-------------------|
| 1 | Volume (TJ) | | | | |
| 2 | Short-term | | | 10.01 | |
| 3 | Rate Schedule 1B | 111.3 | 119.5 | (8.2) | 101.9 |
| 4 | Rate Schedule 2B | 21.4 | 16.9 | 4.5 | 21.2 |
| 5 | Rate Schedule 3B | 18.8 | 19.3 | (0.5) | 18.2 |
| 6 | Rate Schedule 5B | 15.0 | 89.5 | (74.5) | 116.3 |
| 7 | Rate Schedule 11B | - | 14.0 | (14.0) | 133.6 |
| 8 | Rate Schedule 30 | - | - | - | - |
| 9 | Sub-total | 166.6 | 259.3 | (92.7) | 391.2 |
| 10 | | | | | |
| 11 | Long Term | | | | |
| 12 | Rate Schedule 11B | 139.6 | 164.6 | (25.0) | 277.6 |
| 13 | Sub-total | 139.6 | 164.6 | (25.0) | 277.6 |
| 14 | | | | | |
| 15 | Total Sales Volume (TJ) | 306.2 | 423.8 | (117.7) | 668.8 |

Table 10-3: BERC Revenue and Volume

5

6 7 18.5 Please expand Table 10-4 in the Application to include the actual RNG customer enrollment for 2020 broken down by rate schedule.

8

9 Response:

- 10 FEI provides the following expanded Table 10-4, which also amends the projected customers for
- 11 2021 to align with the 2021 volumes projected in Table 10-3.


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

| 2020 RNG Projected Participation | 20 | 20 | 20 | 21 |
|----------------------------------|-----------|--------|----------|---------|
| (Rate Schedule) | Projected | Actual | Original | Amended |
| Short Term | | | | |
| Rate Schedule 1B | 10,273 | 10,115 | 9,273 | 9,722 |
| Rate Schedule 2B | 198 | 194 | 183 | 191 |
| Rate Schedule 3B | 15 | 17 | 17 | 17 |
| Rate Schedule 5B | 2 | 2 | 3 | 12 |
| Rate Schedule 11B | 2 | 2 | 2 | 6 |
| Rate Schedule 30B Off System | - | - | 0 | 0 |
| Long Term | | | | |
| Rate Schedule 11B | 3 | 3 | 3 | 3 |
| Total | 10,493 | 10,333 | 9,481 | 9,951 |

2 The table includes the following updates:

The actual customer enrolment for 2020 broken down by rate schedule as requested. In
 preparing the requested information, FEI noted that the actual 2020 customer enrolment
 indicated there were two additional participants in Rate Schedule 3B over the projected
 result, which appeared to be inconsistent with the fact that the RNG program was closed
 to new participants in 2020. FEI has reviewed the program data and determined that no
 new customers were admitted to the program during the closure period. The difference is
 attributable to the following:

- 10 a. At the time that FEI prepared the projected numbers for the Annual Review for 11 2020 and 2021 Delivery Rates Application, one existing program participant had 12 elected to change the percentage of RNG received. FEI's information system 13 accomplished this by dropping the customer from the program temporarily, and 14 subsequently re-enrolling the customer at the new desired percentage. When FEI 15 prepared the projected numbers, the program data did not include this participant. 16 In the end of year actual number presented in the table above, this participant is 17 now included.
- b. Subsequent to when FEI prepared the 2020 projected customer enrolment numbers, one premise was migrated from Rate Schedule 2 to Rate Schedule 3.
 This participant's enrolment in the RNG program likewise migrated from Rate Schedule 2B to Rate Schedule 3B.
- The projected enrolment for 2021 has been amended to include new participation. FEI now anticipates reopening the RNG program to new participants in the latter part of 2021.
 The projected participation for 2021 provided in the Application did not include new customer additions post program reopening.

With regard to the 2021 Amended Projected Participation provided in the above table, FEI notes
that this updated customer enrolment count has no impact on the BVA rider calculated in Table
10-2 of the Application. The volumes as originally reported in Table 10-3 of the Application already



included volumes projected from reopening the RNG program, thus the impact of the increasedcustomer enrolment was already included in the BVA rider calculation.

- 3 4 5 6 18.6 Please explain how FEI projects the RNG volume for 2021 that is shown in Table 7 10-3. 8 9 Response: 10 FEI projects the demand for RNG using several approaches based on how customers are enrolled 11 in the program. 12 For large volume customers under Rate Schedule (RS) 11B, a demand schedule is required 13 outlining the customer's desired RNG volumes on a monthly basis. Schedules for short-term RS 14 11B customers cover a one-year period while long-term customers cover a 5-year contract period. 15 For mass-market customers (currently RS 1B, 2B and 3B), FEI uses the customer counts per rate 16 class multiplied by the historical average consumption of RNG per customer. FEI updates the 17 historical average consumption of RNG per customer annually to include the previous year's 18 results. 19 Currently, there are only a few RS 5B customers. As such, FEI forecasts the consumption of 20 these customers individually based on their consumption history plus any information they have 21 provided to FEI about their desired volumes. 22 FEI updates the forecast on a monthly basis to include the actual customer and consumption 23 numbers from the previous month. In this way, the accuracy of the year-end projection continues 24 to improve as the year progresses. 25 26 27 28 Please explain why the 2021 projected volume for Rate Schedule 2B has 18.7 29 increased from 16.9 TJ to 21.2 TJ when the number of projected customers 30 enrolled has decreased from 198 to 183. 31 32 **Response:** 33 FEI notes the 16.9 TJ was a 2020 projected volume for Rate Schedule (RS) 2B from FEI's 2020 34 and 2021 Annual Review application filed in August 2020. FEI believes it is more appropriate to 35 compare the 2021 projected volume with the 2020 actual, which was 21.4 TJs with actual customer enrollment of 194, as shown in the response to BCUC IR1 18.5. The minor volume 36
- 37 reduction from the 2020 actual to 2021 projected level is consistent with the reduction of enrolled



6 7

8

9

customers from 194 to 191. Please refer to the response to BCUC IR1 18.5 which shows that
 the amended 2021 projected customer enrollment for RS 2B is 191. Please also refer to the
 response to BCUC IR1 18.6 for a description of the forecasting methodology.

- 18.8 Please explain why the 2021 projected volume for Rate Schedule 3B has decreased from 19.3 TJ to 18.2 TJ when the number of projected customers enrolled has increased from 15 to 17.
- 10 11 <u>Response:</u>

12 FEI notes the 19.3 TJ was a 2020 projected volume for Rate Schedule (RS) 3B from FEI's 2020 13 and 2021 Annual Review application filed in August 2020. FEI believes it is more appropriate to 14 compare the 2021 projected volume with the 2020 actual, which was 18.8 TJs with actual 15 customer enrollment of 17, as shown in the response to BCUC IR1 18.5. There is no anticipated 16 change in customer enrollment in RS 3B and the minor variance in volume of 0.3 TJ is likely 17 attributable to small variances in the customer use rate. Please refer to the response to BCUC 18 IR1 18.6 for a description of the forecasting methodology and BCUC IR1 18.5 for a discussion on 19 the customer count for RS 3B.

- 20
- 20
- 21
- 22
- 2318.9Please explain why the 2021 projected volume for Rate Schedule 5B has24increased to 116.3 TJ from the actual 2020 volume of 15 TJ.
- 25

26 **Response:**

27 The increase is attributable to two developments. First, in 2021 the City of Surrey nominated a 28 larger portion of the RNG produced at its Surrey Biofuels facility for its own use, resulting in an 29 increase to the 2021 projection. FEI notes the City of Surrey originally planned this to occur in 30 2020, and FEI adjusted its 2020 projected numbers upwards as part of its 2020 and 2021 Annual 31 Review application accordingly, which led to the large variance between the 2020 projected and 32 2020 actual demand from RS 5B. Second, FEI plans to reopen the RNG program to new 33 participants in the latter part of 2021. An allowance for new customers and load has been included 34 under the 2021 RS 5B projected demand to account for new enrolment.

35

36



2

3

4

18.10 Please explain why the 2021 projected short-term and long-term volume for Rate Schedule 11B has increased when the number of projected short-term and long-term customers enrolled has stayed at 2 and 3, respectively.

5 **Response:**

6 The increase in projected volumes in 2021 compared to 2020 is due to FEI's improved ability to 7 provide RNG to customers. The RNG program has been closed to new participants since August 8 of 2019. During this period, service to existing Rate Schedule (RS) 11B customers has been 9 curtailed. In the meantime FEI has successfully entered into new supply contracts. Beginning in 10 late 2020, and continuing through 2021, several of these new suppliers began providing FEI with 11 RNG. As 2021 progressed, and the new suppliers demonstrated their ability to reliably supply RNG, it became apparent that FEI was in a position to end the curtailment of RNG service to 12 13 existing customers. Further, FEI was in a position to plan to reopen the program to new 14 participants in late 2021. FEI factored the above developments into the projected sales volumes 15 for 2021. In summary, the increase for RS 11B customers in 2021 is due to:

- 16 1. Ending the curtailment of service to existing RS 11B customers;
- Providing additional volumes to existing RS 11B customers to offset the supply deficit
 incurred during the curtailment period. These volumes ensure that FEI will have delivered
 the contracted minimum supply volumes to the RS 11B customers; and
- Providing an allowance for new RS 11B customer enrollment assuming a program
 reopening in the latter part of 2021.

FEI now believes that the projections above understate the volume of demand from RS 11B longterm customers, and overstates the volume of demand for RS 11B short-term customers. FEI's current 2021 projected demand for RS 11B long-term and short-term customers is approximately 365 TJs and 46 TJs, respectively. FEI notes the updated forecast only shifts projected volumes between short-term and long-term RS 11B customers; the total sales volume remains the same at 668.8 TJs. FEI also notes this shift does not impact the biomethane costs recovered in the BVA rider calculation¹⁶.

¹⁶ FEI projects Biomethane costs recovered in Table 10-1, Line 11 of the Application based on the total sales volume from Table 10-3, Line 15 times the actual weighted BERC recovery rate experienced in YTD actuals up to the time of filing the Application.



1 19.0 Reference: EARNING SHARING AND RATE RIDERS

- Exhibit B-2, Section 10.3.2, Table 10-5, p. 85; Section 11, Schedule
 11; FEI Annual Review for 2020 and 2021 Rates proceeding, Exhibit
 B-2, Section 11, Schedule 11,
 - рр. 109, 143

Revenue Stabilization Adjustment Mechanism

On page 85 of the Application, FEI states that the projected balance in the Rate
Stabilization Adjustment Mechanism (RSAM) is a debit of \$2.473 million.

9 On pages 109 and 146 of the FEI Annual Review for 2020 and 2021 Delivery Rates 10 application, the projected RSAM balance at the end of 2021 and 2020 was a debit of 11 \$8.836 million and a debit of \$17.667 million, respectively, and the actual RSAM balance 12 at the end of 2019 was a debit of \$26.353 million.

- 13 19.1 Please provide a continuity schedule that shows the change from the 2019 actual
 14 RSAM balance of \$26.353 million to the actual 2020 ending balance and to the
 15 projected 2021 ending balance of \$2.473 million.
- 16

5

6

17 <u>Response:</u>

Please refer to the table below for the requested continuity schedule from 2019 actual to 2021 projected for the RSAM balance. Note the 2021 ending balance of \$2.473 million shown on page 85 of the Application includes RSAM interest, which is recorded separately in the Interest on CCRA/MCRA/RSAM/Gas Storage rate base deferral account. FEI has included the RSAM interest deferral account within the continuity schedule below.

UNAMORTIZED DEFERRED CHARGES AND AMORTIZATION - RSAM (\$000s)

| Line No. | Particulars | Actual 12/31/2019 | Opening Bal./ Transfer/Adj. | Gross Additions | Less Taxes | Amortization Expense | Rider | Tax on Rider | Actual 12/31/2020 | Mid-Year Average |
|-------------|---------------|----------------------|--------------------------------|---------------------|---------------|-------------------------|----------|-----------------|----------------------|---------------------|
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1 | RSAM | 26,353 | - | (657) | 177 | - | (10,827) | 2,923 | 17,970 | 22,162 |
| 2 | RSAM Interest | 8 | - | (53) | 14 | | (3) | 1 | (33) | (13) |
| | Total | 26,361 | - | <mark>(</mark> 710) | 191 | - | (10,830) | 2,924 | 17,937 | 22,149 |
| Line No. | Particulars | Actual 12/31/2020 | Opening Bal./ Transfer/Adi. | Gross Additions | Less Taxes | Amortization Expense | Rider | Tax on Rider | Projected | Mid-Year Average |
| | (1) | (2) | (3) | (4) | (5) | (6) | (7) | (8) | (9) | (10) |
| 1 | RSAM | 17,970 | - | (8,869) | 2,395 | - | (12,238) | 3,304 | 2,562 | 10,266 |
| 2 | RSAM Interest | (33) |) - | (100) | 27 | | 23 | (6) | (89) | (61) |
| | Total | 17,937 | - | (8,969) | 2,422 | - | (12,215) | 3,298 | 2,473 | 10,205 |

23

24



- 1
- 2 3

- 19.2 Please explain the driver(s) behind the decrease in the RSAM balance from 2020 projected of \$17.667 million to 2021 projected of \$8.836 million.
- 5 **Response:**

6 The 2020 projected ending balance of \$17.667 million shown in Table 10-5 of the Annual Review 7 for 2020 and 2021 Delivery Rates Application is comprised of the projected debit ending balance 8 of the RSAM deferral account of \$17.673 million (Section 11, Schedule 11 - 2020, Line 4, Column 9 9) and the RSAM interest projected credit ending balance of \$0.006 million. The RSAM interest 10 is recorded separately and grouped in the Interest on CCRA/MCRA/RSAM/Gas Storage deferral 11 account line in the financial schedules (Section 11, Schedule 11 - 2020, Line 5, Column 9). The 12 2021 forecast ending balance for the RSAM deferral account, as filed in the Annual Review for 13 2020 and 2021 Delivery Rates Application, is \$8.836 million (Section 11, Schedule 11 – 2021, 14 Line 4, Column 9).

15 FEI does not forecast additions to the RSAM account, as it is assumed that there will be no 16 variance from the use rates that have been forecast. As a result, the reason for the decrease in 17 the RSAM deferral account balance from the 2020 projected ending balance of \$17.673 million to 18 the 2021 forecast ending balance of \$8.836 million is primarily due to the forecast 2021 RSAM 19 rider recovery of \$12.106 million. This is based on the 2021 RSAM rate rider of \$0.087 per GJ 20 and the 2021 forecast demand for RS 1, 2, 3, and 23. To further clarify, the table below shows 21 the continuity from the projected ending balance of 2020 to the forecast ending balance of 2021 22 for the RSAM deferral account from FEI's 2020 and 2021 Annual Review application, using the 23 various references described in the paragraph above. A breakout of the rider and the applicable 24 volumes is also available in Table 10-5 of the 2020 and 2021 Annual Review application.

| | | | Projected | Gross | Less | Amortization | | Tax on | Forecasted |
|----|------|-------------------|--------------------|----------------|------------|---------------|--------------|-------------|------------|
| | Line | Particular | 12/31/2020 | Additions | laxes | Expense | Rider | Rider | 12/31/2021 |
| | 1 | RSAM | 17,673 | | | | (12,106) | 3,269 | 8,836 |
| | 2 | RSAM Inter | rest (6) | (7) | 2 | 2 | 5 | (2) | (8) |
| 25 | 3 | Total | 17,667 | (7) | 2 | - | (12,101) | 3,267 | 8,828 |
| 26 | | | | | | | | | |
| 27 | | | | | | | | | |
| 28 | | | | | | | | | |
| 29 | | 19.3 | Please explain the | edriver(s) bel | hind any o | change betwee | n the actual | and project | ed |
| 30 | | | ending 2020 acco | unt balance. | | | | | |
| 31 | | | | | | | | | |
| 32 | Resp | oonse: | | | | | | | |

There is only a small variance between the 2020 Projected and 2020 Actual RSAM deferral account balance (of \$270 thousand).



- 1 The tables below provide the continuity for the RSAM deferral account and RSAM interest deferral
- 2 account for the 2020 projected ending balance as included in FEI's 2020 and 2021 Annual Review
- application, and for 2020 actuals as included in FEI's 2020 BCUC Annual Report.

The RSAM deferral account captures the variances in use rate (GJ per customer) between actual/projected and approved for rate schedules (RS) 1, 2, 3, and 23 with the balance being amortized through the RSAM rider recovery. The small variance of \$270 thousand between the actual ending balance of 2020 and the projected ending balance of 2020 is primarily due to the following:

- At the time of filing the 2020 and 2021 Annual Review application, the gross credit additions of \$982 thousand (before interest) were projected using actual monthly variances in use rates of RS 1, 2, 3, and 23 up to June 2020 only¹⁷. In contrast, the actual gross credit additions, due to variances in use rates of RS 1, 2, 3, and 23 for the full year of 2020, were \$657 thousand; and
- At the time of filing the 2020 and 2021 Annual Review application, the projected RSAM rider recovery was \$10.908 million, which was based on a RSAM rate rider of \$0.078 per GJ (approved by Order G-307-19) and a projected demand with actuals up to June 2020 for RS 1, 2, 3, and 23. However, the actual 2020 full year demand for RS 1, 2, 3, and 23 combined was lower than projected, resulting in a reduced actual RSAM recovery of \$10.827 million.
- 20

| <u>2020 F</u> | Projected RSAM Def | erral Continuity (As | filed in FEI's Annud | al Review for 20 | 20 and 2021 Delive | ery Rates) | | |
|---------------|----------------------|----------------------|----------------------|------------------|--------------------|------------|--------|------------|
| | | Actual | Gross | Less | Amortization | | Tax on | Projected |
| Line | Particular | 12/31/2019 | Additions | Taxes | Expense | Rider | Rider | 12/31/2020 |
| | | | | | | | | |
| 1 | RSAM | 26,353 | (982) | 265 | | (10,908) | 2,945 | 17,673 |
| 2 | RSAM Interest | 8 | (17) | 5 | | (3) | 1 | (6) |
| 3 | Total | 26,361 | (999) | 270 | - | (10,911) | 2,946 | 17,667 |

| <u>2020 Actual RSAM Deferral Co</u> | ontinuity (As file | d in FEI's 202 | 0 BCUC Annual Rep | <u>oort)</u> | |
|-------------------------------------|--------------------|----------------|-------------------|--------------|------|
| | | - | | - | |

| | | | Actual | Gross | Less | Amortization | | Tax on | Actual |
|---|------|---------------|------------|-----------|-------|--------------|----------|--------|------------|
| _ | Line | Particular | 12/31/2019 | Additions | Taxes | Expense | Rider | Rider | 12/31/2020 |
| | | | | | | | | | |
| | 1 | RSAM | 26,353 | (657) | 177 | | (10,827) | 2,923 | 17,970 |
| | 2 | RSAM Interest | 8 | (53) | 14 | | (3) | 1 | (33) |
| _ | 3 | Total | 26,361 | (710) | 191 | - | (10,830) | 2,924 | 17,937 |

- 21
- 22 23
- -
- 24 25

19.4 Please explain the driver(s) behind the change in the ending 2021 account balance from \$8.836 million projected in the previous annual review to the \$2.473 million currently projected.

27 28

¹⁷ Actual variance in use rates of RS 1, 2, 3, and 23 multiplied by the actual customer counts in the same month.



1 Response:

2 FEI notes the 2021 forecast ending debit balance of \$8.836 million for the RSAM deferral account excludes RSAM interest and was based on the forecast provided in the 2020 and 2021 Annual 3 4 Review application, which was filed in August 2020. It was based on the 2021 demand forecast and a forecast of zero use rate variances for RS 1, 2, 3, and 23 at that time. The current 2021 5 projected ending debit balance of \$2.473 million includes RSAM interest and was projected based 6 7 on an updated 2021 demand forecast and use rates variance for RS 1, 2, 3, and 23 with actuals 8 up to May 2021. The practice of using year-to-date actuals of use rate variances for projecting 9 the current year additions, but not forecasting future years' use rate variances, is consistent with 10 past annual reviews.

Please refer to the response to BCUC IR1 19.1 for the continuity of the RSAM deferral which shows the current 2021 projected ending debit balance of \$2.473 million (including RSAM interest) as included in the Application. Please also refer to BCUC IR1 19.2 for the continuity of the RSAM deferral which shows the initial 2021 forecast ending debit balance of \$8.836 million (excluding RSAM interest) as included in FEI's 2020 and 2021 Annual Review application.

When comparing the original 2021 forecast continuity included in the 2020 and 2021 Annual Review application to the 2021 projected continuity shown in the response to BCUC IR1 19.1 and embedded in this Application, it can be seen that the current 2021 projected RSAM deferral balance continuity includes credit additions of \$8.869 million related to 2021 actual use rate variances up to May 2021 (use rates were higher than approved). These additions account for the majority of the variance between the two continuity schedules.

- 22
- 23
- 24

32

- Table 10-5 on page 85 of the Application shows 2022 amortization post-tax and pre-tax amounts of the RSAM of \$1.237 million and \$1.694 million, respectively.
- 27 Schedule 11 in Section 11 of the Application shows the following for the RSAM account:
- Balance at the end of 2021 of \$2.562 million (line 4, column 2) and
- 29 Rider of \$1.755 million for 2022 (line 4, column 7)
- 3019.5Please reconcile the 2021 ending balance of \$2.473 million with the \$2.562 million31in Schedule 11.
- 33 Response:

The difference between the 2021 ending debit RSAM balance of \$2.473 million shown in Table 10-5 of the Application and the 2021 ending debit RSAM balance of \$2.562 million shown in Schedule 11, Section 11 of the Application is the credit RSAM Interest ending balance of \$0.089 million. The RSAM Interest deferral account balance is included within the Interest on CCRA /



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 80 |

- 1 MCRA / RSAM / Gas Storage deferral account line shown on Line 5 of Schedule 11, Section 11
- 2 of the Application. Please refer to the table below for the reconciliation:

| | \$ millions |
|---|-------------------|
| RSAM ending 2021 balance per Schedule 11 | \$ 2.562 |
| RSAM Interest ending 2021 balance included within Interest on CCRA / MCRA / RSAM / Gas Storage deferral account line on Schedule 11 | <u>(\$ 0.089)</u> |
| RSAM balance per Table 10-5 | \$ 2.473 |

- 3
- 4
- 5
- 19.6 Please reconcile the 2022 amortization of the RSAM in Table 10-5 with the \$1.755 million in Schedule 11.
- 7 8

9 Response:

The difference between the 2022 total RSAM rider recoveries of \$1.694 million shown in Table 10-5 of the Application and the 2022 total RSAM rider recoveries of \$1.755 million shown in Schedule 11, Section 11 of the Application is the 2022 total RSAM Interest rider refunds of \$0.061

- 13 million. The RSAM Interest rider is included within the Interest on CCRA / MCRA / RSAM / Gas
- 14 Storage deferral account line shown on Line 5 of Schedule 11, Section 11 of the Application.
- 15 Please refer to the table below for the reconciliation.

| | | \$ millions |
|--|---|-------------------|
| RSAM riders per Schedule 1 | 1 | \$ 1.755 |
| RSAM Interest riders include MCRA / RSAM / Gas Storage Schedule 11 | d within the Interest on CCRA / e deferral account line on | <u>(\$ 0.061)</u> |
| RSAM rider recoveries per | Table 10-5 | \$ 1.694 |



FortisBC Energy Inc. (FEI or the Company)
Annual Review for 2022 Delivery Rates (Application)Submission Date:
September 28,
2021Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1Page 81

20.0 EARNING SHARING AND RATE RIDERS 1 **Reference:** 2 Exhibit B-2, Section 10.3.3, p. 86 3 **Clean Growth Innovation Fund** 4 On page 86 of the Application, FEI states: Actual expenditures for 2020 were \$1.0 million and are forecast to be \$1.7 million 5 6 and \$5.0 million in 2021 and 2022, respectively. 7 To date, just under \$2.0 million in funding has been approved in two portfolios which is described below. 8 9 20.1 Please explain what the actual expenditures for 2020 to 2022 are for and provide a table with a breakdown by major cost category of the expenditures for 2020 10 11 actual, and 2021 and 2022 forecasts, respectively. As part of the response, please 12 identify whether there are any expenditures that are considered one-time costs 13 (e.g. start-up costs). 14 15 **Response:** 16 The forecast for 2021 expenditures of \$1.7 million provided in the Application was an error. The 17 \$1.7 million figure is actually the projected *cumulative* expenditures in 2020 and 2021. Therefore, 18 the projection for 2021 should have been \$0.6 million. FEI will update the 2022 financial schedules 19 in the compliance filing to the decision on the Application to reflect the revised 2021 projected 20 amount. Given the Clean Growth Innovation Fund is a non-rate base deferral account, the revised 21 2021 projection will have no impact on the requested or final approved delivery rate increase;

thus FEI does not consider it necessary to file an evidentiary update for this error.

FEI is unable to provide a categorized forecast for 2022 as the expenditure categories will depend on individually approved projects achieving certain milestones on the dates expected. The nature of the work being undertaken does not lend itself well to forecasting even on a high-level annual

- 26 basis.
- The breakdown by major categories for actual and projected 2020-2021 expenditures is provided below. FEI notes that none of the costs incurred are start-up costs.
- 28 below. FEI notes that none of the costs incurred are start-up cost
- 29

2020 and 2021 CGIF Expenditures (\$ thousands)

| Category | 2020 Actual | 2021 Projected | Total |
|--------------------------------|-------------|----------------|---------|
| Renewable and Low-carbon Gases | 454.6 | 340.1 | 794.6 |
| Carbon Capture | 143.4 | 52.3 | 195.7 |
| Transportation | 60.3 | - | 60.3 |
| Combined Heat and Power | 88.2 | - | 88.2 |
| Natural Gas Innovation Fund | 215.3 | 155.9 | 371.2 |
| Natural Gas Futures | 100.0 | 100.0 | 200.0 |
| Total | 1,061.7 | 648.3 | 1,710.0 |



| 1 2 | | |
|-----------------------------|-----------------------------|---|
| 3 4 | Furthe | er on page 86 of the Application, FEI states: |
| 5 6 7 8 9 10 | | FEI committed to and has established two employee groups with oversight of the CGIF. First, the Innovation Working Group (IWG) is responsible for the identification, evaluation, selection, and execution of projects. The IWG is comprised of FEI staff that provide subject matter expertise from a variety of departments key to assessing the technical and business proposals which are part of the portfolios. |
| 11 12 13 | | Second, the Executive Steering Committee (ESC) has been established to provide strategic direction to the CGIF and to approve the funding for the portfolios recommended by the IWG and reviewed by the External Advisory Council (EAC). |
| 14 15 16 | 20.2 | Please discuss who the members of the ESC are and explain whether they work independently from the IWG. |
| 17 | Response: | |
| 18 | There are cur | rently three members of the ESC: |
| 19 | • Vice-F | President, External and Indigenous Relations |
| 20 | • Vice-F | President, Energy Supply and Resource Development |
| 21 22 | • Vice-F | President, Regulatory Affairs |
| 23 24 | The ESC mai both the IWG | ke their decisions independently of the IWG, but consider the recommendations of and EAC. |
| 25 | | |



FortisBC Energy Inc. (FEI or the Company)
Annual Review for 2022 Delivery Rates (Application)Submission Date:
September 28,
2021Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1Page 83

1 I. ACCOUNTING MATTERS AND EXOGENOUS FACTORS

| 2 | 21.0 I | Refere | ence: | NEW DEFERRAL ACCOUNTS |
|--|---|---|---|--|
| 3 4 | | | | Exhibit B-2, Section 12.4.1, Tables 12-1, 12-2, pp. 134, 137–1340; Utilities Commission Act (UCA), Section 44.2 (1) |
| 5 6 | | | | Regional Gas Supply Diversity (RGSD) Project Development Costs Deferral Account |
| 7 | (| On pa | ge 134 o | of the Application, FEI states: |
| 8 9 10 11 12 | | | FEI is s related Indiger The cc Oliver t | seeking approval of one new non-rate base deferral account to capture costs to activities associated with developing a project in consultation with hous groups and other stakeholders from concept through to CPCN filing. Incept is an extension of the FEI Southern Crossing Pipeline (SCP) from to Huntingdon. |
| 13 14 15 | 2 | 21.1 | Please Necess | provide the current estimated Certificate of Public Convenience and sity (CPCN) capital cost for the above-noted RGSD Project. |
| 16 | Respon | se: | | |
| 17 18 19 20 21 22 23 | A CPCI develop capture including from oth | N cap ment of the c g the o her pro | ital cos costs wl costs for develop jects, co | t has not yet been prepared. The estimated \$49.3 million of project hich FEI is requesting deferral account treatment for in this Application will the development and filing of the RGSD Project's CPCN application, ment of the capital cost estimate. In the interim, based on unit cost data onceptually the cost is anticipated to be in the range of \$4 billion. |
| 24 25 | F | -El fui | ther sta | tes on page 137 of the Application: |
| 26 27 28 29 30 | | | The ma of a pr and Ph FEI wit with the | agnitude and scope of the RGSD Project is such that FEI requires approval oject development cost deferral account in order to conduct Pre-Phase 1 ase 1 project assessment activities (outlined in Table 12-1) that will provide h the detailed information necessary to prepare and file a CPCN application e BCUC. |
| 31 32 33 | | 21.2 | Please Pre-Ph procee | discuss the likelihood that, based on the development work performed in ase 1 and Phase 1 project assessment activities, FEI would decide not to d with the RGSD Project. |
| 34 35 36 | | | 21.2.1 | Please discuss the implications to ratepayers if this situation were to occur. |



1 Response:

An outcome of the work performed during Pre-Phase 1 and Phase 1 is to inform FEI of the feasibility of this project. As a result, the likelihood of successfully developing the RGSD Project will be identified with the work performed within these two phases.

5 If the RGSD Project is deemed to be not feasible during the work performed in Pre-Phase 1 or 6 Phase 1, FEI would apply for recovery of the deferral account balance as part of a future revenue 7 requirement application. As explained in the response to BCUC IR1 21.5, FEI expects that it 8 would receive approval to recover its prudently incurred costs related to conducting the 9 assessment phase of the RGSD Project, regardless of whether the project is ultimately deemed 10 feasible. As part of the future revenue requirement application, FEI would propose an amortization 11 period for recovery of the deferred project development costs. The delivery rate impact of these 12 deferred costs would be dependent on the deferral account balance and the proposed 13 amortization period, both of which would be examined as part of the future revenue requirement 14 proceedina.

- 15
- 16
- 17
- 10

On page 138 of the Application, FEI provides the following table that shows the estimated
 RGSD Project development costs that FEI proposes to defer.

| , | | | | | | |
|---------------------------------|--------|--------|-----|------|----|-------|
| Major Category | Pre-Pl | hase 1 | Pha | se 1 | | Total |
| Pipeline Engineering | \$ | - | \$ | 4.1 | \$ | 4.1 |
| Compressor Engineering | | | | 8.9 | | 8.9 |
| Geotechnical Engineering | | 0.3 | | 2.1 | | 2.4 |
| Environmental Application | | 1.0 | | 2.3 | | 2.3 |
| Land and Right-of-Way | | - | | 7.5 | | 7.5 |
| Indigenous & External Relations | | 1.5 | | 9.5 | | 11.0 |
| Legal | | 0.3 | | 2.0 | | 2.3 |
| Contingency | | | | 7.2 | | 7.2 |
| Management Cost | | - | | 3.6 | | 3.6 |
| Total Costs | \$ | 2.1 | \$ | 47.2 | \$ | 49.3 |

Table 12-1: Estimated RGSD Project Development Costs (\$ millions)

- 20
- 21 Further on page 138 of the Application, FEI states:
- As shown in Table 12-1 above, the project development costs have been broken down into Pre- Phase 1 and Phase 1 costs. The Pre-Phase 1 costs of \$2.1 million are largely to engage in initial consultation activities with Indigenous communities in 2021. The balance (\$47.2 million) for Phase 1 activities is planned to be spent in 2022 and 2023, leading to the preparation of a CPCN. Based on initial estimated timelines, FEI anticipates that the earliest possible date for a CPCN filing would be Q1 2023.
- 29 In Table 12-2 on page 140 of the Application, FEI states:
- 30In the absence of this deferral account, costs would have been forecast as a31combination of O&M and capital expenses outside of the formula.



2

3

- 21.3 Please explain the basis and estimating accuracy of each major category of RGSD Project development costs in Table 12-1.
- 4 <u>Response:</u>

5 The development of the RGSD Project Development Costs deferral account budget (as explained 6 in Section 12.4.1.1.2 of the Application) was derived using a combination of internal FEI personnel 7 and external consultants and firms and was based on a conceptual alignment of the pipeline, 8 compressor station locations and schedule. Based on this information, each consultant and 9 internal FEI employee developed budget estimates. Based on FEI's current understanding of the 10 route alignment, FEI has assigned the category cost level estimates to be approximately Class 4. 11 The Company has developed an overall contingency estimate to address risk and uncertainty, 12 and plans to manage within the overall budget estimate of \$49.3 million. Should the scope of 13 work increase beyond the aggregate estimate and contingency, such work would be included in 14 a CPCN application. The details for each of the major categories of RGSD Project development 15 costs are summarized in the table below:

| Cost Category | Cost Basis | | | |
|---|---|--|--|--|
| Pipeline Engineering | Consultant used a ratio of Development Costs to Capital Costs that is typical of similar projects. Work incorporated information from other similar projects that have been completed. | | | |
| Compressor Engineering | Consultant used ratios of Development Costs to Capital Costs based on historical project information. | | | |
| Geotechnical Engineering | Consultant used professional experience to identify tasks required for pipeline design. These tasks were coupled with the resources required to complete them. | | | |
| | Consultant used the following methodology to calculate approximate costs for the Project: | | | |
| Environmontal | Using historical knowledge of the level of support required for various office-based tasks and a conceptual schedule, costs were estimated and included. | | | |
| Application | A high-level review of the discipline specific requirements related to expected constraints was included to capture various survey and permitting requirements. | | | |
| | Using historical actuals from similar projects, actual cost per km of length of pipeline was calculated for several key tasks, compared between projects and used to estimate overall costs for this Project. | | | |
| Land and Right-of-Way | FEI internal estimate is based on estimated length of new ROW, number of individual properties requiring assessments and agreements, statutory Right-of-Ways, material laydown areas as well as other land related costs. | | | |
| Indigenous and External Relations | FEI internal estimate is based on the number of Indigenous consultations as identified by an external consultant and resources required to complete this work. | | | |
| Legal | Consultant's estimate is based on historical experience as it relates to legal activities for conceptual scope. | | | |
| Contingency | Based on component uncertainties, contingency of twenty percent was applied. | | | |
| Management Cost | Management costs of ten percent were used to cover off a typical requirement for internal resources to manage a major project. | | | |



2 3

4 5

6

7 8

9

Page 86

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

- 21.4 Please confirm, or explain otherwise, that the pre-phase 1 project development costs are the projected actual costs for 2021.
 - 21.4.1 If not confirmed, please provide the projected actual costs and explain any differences from the \$2.1 million presented in Table 12-1.

10 11 **Response:**

The Pre-Phase 1 development costs of \$2.1 million were projected to be spent in 2021 at the time the Application was developed and, as explained in Section 12.4.1.1.2, the majority of these costs are for Indigenous engagement work. However, based on more recent information, FEI is now projecting 2021 spending to be approximately \$1.0 million. The large-scale wildfire situation that occurred during the summer of 2021 in the BC interior, combined with the evolving COVID-19 pandemic, have negatively affected the timing of Indigenous engagement activities planned for 2021.

19 The balance of the \$2.1 million originally projected for 2021 will be spent over the course of 2022,

as FEI increases its Indigenous engagement and other activities. Thus, the overall total project
 development cost estimate remains at \$49.3 million; it is only the timing of when the activities are

22 undertaken and associated costs are incurred that has changed.

FEI will update the 2022 financial schedules in the compliance filing to the decision on the Application to reflect the revised 2021 projected ending balance in the RGSD Project Development Costs deferral account, if approved. Given the requested deferral account is a nonrate base deferral account, the revised 2021 projection will have no impact on the requested or final approved delivery rate increase for 2022.

- 28
- 29
- 30

35

21.5 In the event that the Project Development Costs Deferral Account is approved,
 please clarify whether FEI understands this to mean that any costs captured in the
 deferral account will be recoverable or if the recovery of the costs will remain
 subject to future BCUC determination.

36 **Response:**

FEI confirms that it will apply for recovery of the RGSD Project Development Costs deferral account as part of a future application (i.e., either as part of a future CPCN for the RGSD project

39 or as part of a future revenue requirement application if the RGSD project does not proceed to



1 the CPCN filing stage). As part of the future application, the BCUC and interveners will have an 2 opportunity to examine the actual costs recorded in the deferral account and, based on the 3 evidence, the BCUC Panel appointed to that application will be able to make a determination on 4 the recoverability of the deferred costs (as well as determining the appropriate amortization period 5 for recovering the costs). This approach is consistent with how the costs recorded in the 6 Transmission Integrity Management Capabilities (TIMC) Development Costs deferral account are 7 being reviewed (please see Section 12.4.2.1 of the Application for more details on the TIMC 8 Development Costs deferral account).

9 FEI expects that as part of a future application it would receive approval to recover its prudently
10 incurred costs related to conducting the assessment phase of the RGSD project (as described in
11 this Application).

12

13

14

- 1521.6In the absence of a BCUC-approved deferral account, please identify which of the16Pre-Phase 1 and Phase 1 costs would be classified as O&M and which would be17classified as capital in accordance with US Generally Accepted Accounting18Principles (US GAAP) and why.
- 19

20 Response:

21 As described in Section 12.4.1.1.2 of the Application, the costs for Pre-Phase 1 are primarily to 22 engage in initial consultation activities with Indigenous communities. In the absence of a 23 regulatory approved deferral account for a rate-regulated entity such as FEI, the costs incurred 24 during Pre-Phase 1 of the RGSD Project would generally be expected to be classified as O&M 25 as the project is not considered probable of being constructed at this point. This is representative 26 of the preliminary phase of construction for capital projects which are generally expensed under 27 US GAAP, including ASC 360 Property, Plant and Equipment and ASC 970-340 Real Estate 28 Other Assets and Deferred Costs.

29 The classification of Phase 1 costs between O&M and capital requires a degree of professional 30 judgement when applying the accounting guidance. When construction of the RGSD Project is 31 deemed probable of being constructed, the project is considered as part of the pre-construction phase for capital projects under US GAAP, which in turn permits the capitalization of various 32 33 directly identifiable project costs. At this point, which could occur during Phase 1, an assessment 34 would be performed to determine which costs would be considered eligible for capitalization 35 outside of a regulatory approved deferral account under US GAAP. Generally speaking, costs to 36 develop the CPCN application would be classified as O&M in the absence of a regulatory 37 approved deferral account; however, certain Phase 1 geotechnical assessments, environmental 38 application, right-of-way, and engineering costs are likely to meet the capitalization criteria as part 39 of the pre-construction phase of capital projects under US GAAP.



In the absence of a BCUC-approved deferral account, any O&M costs incurred would have to be 1 2 forecast outside of formula O&M expense (since the project development costs for future CPCN applications are not included in FEI's Base O&M) and trued-up annually by way of the Flow-3 4 through deferral account. However, consistent with past requests and approvals to capture the 5 O&M portion of development costs in a deferral, such as the Pattullo Gas Replacement CPCN 6 development costs, the O&M portion of development costs more appropriately belong in a deferral 7 account, given the extended time period over which the costs are incurred. O&M costs are meant 8 to reflect period costs, whereas costs recorded in a deferral account allow for a recovery of the 9 costs incurred over a longer timeframe. Deferral treatment allows for O&M costs related to project 10 development to be spread out in delivery rates over multiple years, as opposed to O&M costs which are embedded in the current year rates on a forecast basis. 11 12 13

- 21.6.1 Please provide the impact to each of 2022 and 2023 delivery rates under the scenario that the proposed deferral account is not approved.
- 18 **Response:**

14 15

16

17

19 As discussed in the response to BCUC IR1 21.6, FEI will not be able to determine with certainty 20 what expenses should be classified as capital until it has determined that the project has entered the pre-construction phase under US GAAP. Since FEI cannot make that determination at this 21 22 time, FEI has calculated the rate impacts for 2022 and 2023 below assuming the total Pre-Phase 23 1 and Phase 1 expenses are classified as O&M expenses. FEI cautions that classifying all of the 24 Pre-Phase 1 and Phase 1 expenses as O&M is conservative and demonstrates the highest 25 potential delivery rate impact. The cumulative delivery rate impact for the Pre-Phase 1 and Phase 26 1 expenses is 1.02 percent.

Please refer to the table below for the 2022 and 2023 delivery rate impacts under the scenario
that the proposed deferral account is not approved. As discussed in the response to BCUC IR1
21.6, these costs would be outside of formula O&M, with any variances between actual and
forecast captured in the Flow-through deferral account.



| м | FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|---|--|---|
| | Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 89 |

Rate Impacts of RGSD Project Development Costs (\$ Millions)

| Line | Particular | Reference | 2022 | 2023 |
|-----------------|--|--------------------------------------|---------|------------|
| 1 | Pre-Phase 1 Costs | Application, Table 12-1, Pre-Phase 1 | \$ 2.1 | \$ - |
| 2 | Forecasted Phase 1 Costs | Application, Table 12-1, Phase 2 | 38.2 | <u>9.0</u> |
| 3 | Revenue Deficiency | Line 1 + Line 2 | \$ 40.3 | \$ 9.0 |
| 4 | | | | |
| 5 | Non-Bypass Margin at 2021 Approved Rates | Schedule 1, Line 29 | 885.532 | 885.532 |
| 6 | | | | |
| 7 | Rate Change | Line 3 / Line 5 | 4.55% | 1.02% |
| 8 | | | | |
| 9 | Year Over Year Rate Change | PY Line 7 - CY Line 7 | 4.55% | -3.53% |
| 10 | | | | |
| 2 ¹¹ | Cumulative Rate Impact | Sum of Line 9 | 1.02% | |

3

4 5

6 According to section 44.2 (1) of the UCA, "A public utility may file with the commission an 7 expenditure schedule containing one or more of the following:

- a) statement of the expenditures on demand-side measures the public utility has made
 or anticipates making during the period addressed by the schedule;
- b) a statement of capital expenditures the public utility has made or anticipates making
 during the period addressed by the schedule;
- c) a statement of expenditures the public utility has made or anticipates making during
 the period addressed by the schedule to acquire energy from other persons.
- Please discuss whether FEI considered filing an application for approval in
 accordance with Section 44.2 of the UCA for the estimated RGSD project
 development costs and why this approach was rejected.
- 17

18 Response:

19 FEI did not consider filing for approval of the estimated RGSD Project development costs under 20 section 44.2 of the UCA because, as explained in the response to BCUC IR1 21.6, FEI does not 21 know at this time how much of the estimated \$49.3 million project development costs will be 22 considered eligible for capitalization under US GAAP. As provided in the above preamble, a utility 23 may file for approval with the BCUC under section 44.2(1) of the UCA for (a) DSM expenditures, 24 (b) capital expenditures, or (c) expenditures to acquire energy. Given that FEI does not know at 25 this time the amount of project development costs that will be considered eligible capital 26 expenditures under US GAAP, in the absence of a BCUC-approved deferral account, and under 27 a scenario where some or all of the costs are deemed to be O&M under US GAAP, FEI would 28 have to expense these costs in the year they are incurred. Please see the response to BCUC



1 IR1 21.6.1 for the implications to customers if a deferral account is not approved and the costs 2 are instead required to be expensed in the year incurred.

3 FEI also notes that approval of project development cost deferral accounts is the standard 4 treatment for costs of this nature. While the project development cost deferral accounts are 5 typically approved as part of the CPCN application, deferral account approval has been received in the past in advance of the CPCN application. A recent example of this is the TIMC 6 7 Development Costs Deferral Account, which was approved as part of FEI's Annual Review for 8 2019 Delivery Rates. Approval of the regulatory treatment in advance of filing a CPCN application 9 is appropriate when costs are to be incurred a number of years prior to a CPCN application being 10 filed, as is the case with the RGSD Project.



1 J. SERVICE QUALITY INDICATORS

| 2 | 22.0 | Reference: | SERVICE QUALITY INDICATORS |
|--------|------|---------------|--|
| 3 4 | | | Exhibit B-2, Section 13.2, Table 13-1, pp. 150, 157; BCUC Decision to FEI and FortisBC Inc.'s (FBC) Application for Approval of a Multi- |
| 5 | | | Year Rate Plan for the Years 2020 through 2024, dated June 22, |
| 6 | | | 2020, pp. 87–88, 99 |
| 7 | | | Meter Reading Accuracy |
| 8 | | The following | is an extract of Table 13-1 in the Application: |

| Table 13-1: | Approved | SQIs, | Benchmarks | and | Actual | Performance |
|-------------|----------|-------|------------|-----|--------|-------------|

| 9 | Performance Measure | Description | Benchmark | Threshold | 2020 Results | 2021 June YTD Results |
|----|---------------------------|---|-----------|-----------|-----------------|-----------------------------|
| 10 | Meter Reading Accuracy | Number of scheduled meters that were read | >= 95% | 92% | 89% | 91% |

11 On page 157 of the Application, FEI states:

12 The 2020 result was 89.2 percent which was lower than the benchmark and 13 threshold. The impact of the COVID-19 pandemic and the need for physical 14 distancing and enhanced hygiene practices by meter readers has resulted in a larger percentage of estimated reads in both 2020 and 2021 year-to-date. The 15 16 BCUC anticipated this impact in Letter L-20-20, which granted public utilities relief 17 from meter reading, when necessary, for the duration of the State of Emergency in the Province of BC and while social distancing practices remain in place. 18 [Footnote references removed] 19

- 20 22.1 Please explain whether FEI considers below-threshold results for meter reading
 21 accuracy for 2020 and 2021 YTD represent a "sustained degradation of service."
 22 Why or why not?
- 23
- 24

25 **Response:**

26 The meter reading accuracy for 2020 and 2021 YTD below the approved threshold does not 27 represent a serious degradation of service and does not warrant any financial penalty under the 28 MRP. FEI's meter accuracy results for 2020 and 2021 YTD are attributable to the COVID-19 29 pandemic, rather than any action or inaction of FEI. The BCUC anticipated this impact when it 30 relieved public utilities of their meter reading obligations where necessary due to the state of 31 emergency and social distancing practices. FEI has taken steps to mitigate the impacts to service 32 quality such that FEI does not consider there has been any serious degradation of service. FEI 33 expects that 2021 actual results will reach the threshold level, although there remains 34 considerable uncertainty due to the ongoing pandemic.



- 1 In the remainder of this response, FEI first summarizes the process and past BCUC guidance on
- 2 interpreting SQI performance, and then applies that guidance to its meter reading performance in
- 3 2020 and 2021 YTD.

4 **Process for Interpreting SQI Performance**

5 The process for interpreting SQI performance was the product of a consensus recommendation 6 in 2014 approved by BCUC Order G-14-15, dated February 4, 2015. The consensus 7 recommendation indicates that performance below the threshold is not sufficient in itself to 8 determine if there is a serious degradation of service:

- 9 Based on how the Parties have established the thresholds and performance 10 ranges, the Parties do not consider performance inferior to a threshold to 11 necessarily
- 12 represent a "serious degradation of service", or
 - warrant adverse financial consequences for FortisBC
- but rather they consider that this circumstance warrants examination at an Annual
 Review to determine whether further action is warranted. However, performance
 inferior to a threshold is a factor the Commission may consider in determining
 whether there has been a "serious degradation of service" and whether adverse
 financial consequences for FortisBC are warranted.
- In its Decision accompanying Order G-107-15, the BCUC provided the following guidance on howto follow the consensus recommendation (at pages 18-19):
- In determining whether financial consequences are in order, the Panel interprets
 the Consensus Recommendation as asking two fundamental questions: Has a
 serious degradation of service occurred? To what extent are the performance
 results attributable to the actions or inactions of the Company?
- The answer to whether a serious degradation has occurred is largely guided by key points set out in the Consensus Recommendation:
- SQI performance below threshold does not necessarily mean that a serious degradation of service has occurred, but is a factor to consider in that determination.
- Two of the four "other factors" noted are also relevant to a determination of
 whether or not any degradation of service is "serious":
- 32

33

13

- The impact on the delivery of safe, reliable and adequate service; and
- Whether the impact is seen to be transitory or of a sustained nature.

In determining the extent to which the performance results are attributable to the actions or inactions of the Company, the remaining two "other factors" need to be considered:



- 1 2
- Any economic gain made by each Company in allowing service levels to deteriorate; and
- 3 4
- Whether each Company has taken measures to ameliorate the deterioration in service.

5 The BCUC also provided direction in Order G-44-16 that in each annual review the BCUC will 6 review actual SQI results from the prior year. This avoids the difficulty and unfairness of 7 evaluating year-to-date results, when thresholds and benchmarks are based on a full calendar 8 year of performance, and performance may change by the end of the year. Thus, while 2021 9 YTD information is something the BCUC can consider, it should be recognized that the year is 10 not yet complete, and 2021 actual results will be evaluated in the next annual review.

11 In the remainder of this response below, FEI follows this guidance to interpreting its meter reading

12 performance, although FEI addresses the questions and factors in a different sequence than in 13 the quote above.

14 *Meter Reading Performance Results below Threshold are Due to Pandemic, Not the* 15 *Actions or Inactions of the Company*

FEI's meter reading accuracy results for 2020 and 2021 YTD are below the BCUC threshold level primarily due to the safety guidelines introduced in response to the ongoing COVID-19 pandemic and reduced staffing levels of FEI's meter reading service provider, Olameter, needing to isolate due to COVID-19 exposure or symptoms. This resulted in a reduced number of meters being read and an increased number of estimated reads.

The BCUC explicitly anticipated this impact of the pandemic and relieved utilities from the meter reading obligations in their tariff terms and conditions. In BCUC Letter L-20-20, dated March 31, 2020, the BCUC stated:

24 The BCUC recognizes that this Pandemic greatly impacts utilities and utility 25 customers across British Columbia as many businesses and individuals adjust to 26 working from home, social distancing, and self-isolation. Given these difficult 27 circumstances, the BCUC understands that utilities may not be able to conduct in-28 person meter reading for all customers at this time due to safety and operational 29 concerns. As such, any public utilities regulated by the British Columbia Utilities 30 Commission (BCUC) that are unable to estimate billings within their endorsed tariff 31 Terms and Conditions are granted relief from meter reading, when necessary, for 32 the duration of the State of Emergency in the Province of British Columbia and 33 while social distancing practices remain in place. In place of meter readings, when 34 necessary, energy consumption may be estimated from best available sources and 35 evidence for billing purposes. When the next actual meter reading is completed, 36 customers' bills must then be adjusted for the difference between estimated and actual use over the interval between meter readings. 37



- 1 Therefore, it is clear that FEI's meter reading performance was due to impacts of the COVID-19
- 2 pandemic, not any of its own actions or inactions. As discussed further below, FEI has worked
- 3 diligently with its meter reading service provider to improve performance where possible, and
- 4 these efforts have resulted in improved performance in 2021.

5 Meter Reading Performance Results below Threshold are Transitory in Nature

As the meter reading is due to the ongoing COVID-19 pandemic, FEI's meter reading performance is transitory in nature, rather than sustained. FEI has been working closely with Olameter to improve the accuracy rate to the extent possible and has taken measures that have improved metering accuracy in 2021 YTD. Based on year-to-date numbers, FEI expects to meet the 2021 year-end meter reading accuracy threshold, although there is uncertainty, as discussed further in BCUC IR1 22.4.

With physical distancing restrictions currently still in place, and periods of reduced Olameter staffing due to employee isolation as a result of symptoms, FEI expects continued pressure on this metric to remain throughout the pandemic. When the COVID-19 pandemic comes to end in the future with the lifting of all restrictions and the resumption of normal operation conditions, FEI expects Meter Reading Accuracy performance to once again meet or exceed the benchmark of 95 percent, an achievement it has successfully reached for many years prior to the start of the COVID-19 pandemic in 2020.

19 FEI Has Effectively Mitigated Impact on the Delivery of Safe, Reliable and Adequate Service

20 While customers have been impacted by the lower than threshold performance in meter reading 21 accuracy due to the COVID-19 related safety protocols for meter readers, these impacts have 22 been largely mitigated as explained further below.

- 23 In evaluating customer impacts of the lower 2020 and 2021 year-to-date meter reading accuracy
- results, FEI considers the number of customers impacted and the extent of those impacts,mitigating measures put in place and overall satisfaction related metrics.

26 Volume of Customers and Impacts of Estimated Reads

- When an actual read is not available, FEI's billing system estimates the read based on historical consumption. The threshold and benchmark meter reading accuracy reflect that in the normal
- 29 course of operations FEI will use estimations instead of actual meter reads for various reasons,
- 30 such as when an actual read is not available due to uncontrollable weather impacts and site
- 31 access issues. It is expected that estimations would be limited to 5-8 percent of total monthly
- 32 meter reads, or approximately 50 to 85 thousand customer bills each month.¹⁸
- 33 There are two direct impacts of estimated reads, the first is that the billed amount may require a
- 34 true-up once an actual read occurs, which can lead to payment challenges and dissatisfaction for

¹⁸ High level calculation based on nearly 13 million meter reads each year.



customers. The second impact is that customers may not have accurate consumption
 information to support informed energy decisions over the short-term.

By default, historical consumption is used to estimate consumption and, as a result, is typically reasonably accurate. However, there are instances where estimations could lead to a larger variance due to factors that may have changed, such as the number or type of customer appliances or usage patterns.

- On average each month in 2020, approximately 115 thousand bills were estimated and in 2021,
 on average, 112 thousand bills per month have been estimated. While some customers may
 have only experienced one estimated bill in this period, others may have had multiple estimated
 bills which could have a larger and compounding impact on the potential buildup of any amounts
- 11 owing to or from the customer to FEI.
- As a result of the potential inconvenience, bill payment challenges and energy use information available to customers as a result of estimation, FEI concludes that, absent effective mitigation measures, there would be moderate impacts to a larger group of customers than the number of customers that would be impacted by estimated reads even if meter reading accuracy met the
- 16 threshold or benchmark.

17 Mitigating Measures Have Been Effective

- In order to mitigate the impacts to customers of this temporary circumstance, FEI continues to work closely with its meter reading service provider to improve performance for meter reading accuracy to the extent possible, while supporting the safety protocols in place. These efforts include frequent information sharing and identification of areas that FEI can support, such as proactive outreach and analysis of premises that have an impediment to access, such as a locked gate or animal presence.
- FEI is also proactively contacting customers with multiple estimates in a row to determine if a customer-provided read is possible to support the estimation. In addition, FEI proactively reaches out to customers with meters that have been identified as hard to access to arrange for a special read and to work with the customer for future access to the meter. These two measures support both an improved accuracy of the estimated bill as well as improved accuracy to support informed energy use decisions and behaviour.
- Finally, to the extent that a customer has received a higher than expected bill, either as a result of the estimated consumption or any true-up once the actual read is available, FEI works with the customer on a one-on-one basis, providing flexible payment arrangements where appropriate. Specific to the 2020 period, FEI also had several additional measures that supported challenges with bill payments and the circumstances associated with COVID-19. This included the waiving of any late payment charges and the pausing of disconnections for non-payment until early 2021.
- With the flexibility in payment arrangements, including the one-on-one focus on customers thathave been impacted and the proactive approach taken to minimize variances between estimated



1 and actual reads, FEI concludes that the mitigating measures have been successful in addressing

2 the customer impacts noted above.

3 Overall Customer Satisfaction Remains Positive

4 Throughout 2020 and 2021, FEI has not seen any indications that the meter reading challenges 5 faced have had a measurable impact on overall customer satisfaction and service quality. For 6 example, the informational Customer Service Index SQI did not show any statistically significant 7 changes in the accuracy of meter reading component of the index in 2020 or 2021 year-to-date. 8 FEI believes that this is most likely due to both the volume of customers impacted representing a 9 relatively small portion of customers overall and the success of the mitigating measures that have 10 been put in place. In addition, the Billing Index SQI has remained at benchmark, indicating that 11 any challenges to the Billing Index as a result of meter reading inputs have not materialized to 12 date and billing metrics have remained aligned with customer expectations. 13 Overall, FEI's considers that the quality of service being provided to customers is high and

14 customers are understanding and supportive of the steps being taken by FEI to mitigate the 15 impacts and challenges associated with meter reading as a result of the COVID-19 pandemic.

16 17 18 19 Please explain any customer impacts of the lower 2020 and 2021 June YTD meter 22.2 20 reading accuracy results. In the response, please explain the methods used to 21 assess customer impact or experience. 22 23 Response: 24 Please refer to the response to BCUC IR1 22.1. 25 26 27 28 22.3 Please explain the reasons for the improved results for meter reading accuracy 29 from 2020 to 2021 June YTD. 30 31 **Response:** 32 The improvement in the accuracy rate in 2021 is attributable to the following: 33 increased communication and metrics reporting between Olameter and FEI; 34 the identification of areas that FEI can support, such as customer outreach to improve • 35 access to sites with locked gates; and



| 1 2 3 4 | a reduced number of Olameter staff that have had to isolate due to COVID-19 exposure or symptoms in 2021 as compared to 2020. |
|--|---|
| 5 6 7 8 9 | 22.4 Please explain whether the 2021 year-end results for meter reading accuracy are expected to be on-track to meet or exceed the threshold. Why or why not?Response: |
| 10 11 12 13 14 15 16 | Based on year-to-date numbers, FEI expects to meet the 2021 year-end meter reading accuracy threshold; however, there is always an element of uncertainty as the impacts of the new variants of COVID-19 are still ongoing which could have unanticipated impacts in the later part of 2021. FEI continues to work closely with its meter reading service provider to improve the performance of this metric through regular meetings to review results and expectations, and by reaching out to customers to improve access to properties with locked gates. FEI expects to see further improvements as the year progresses. |
| 17 18 | |
| 19 20 21 22 | 22.5 Please explain whether FEI has resumed its pre-COVID-19 pandemic schedule for meter readings. If so, please explain when. If not, please explain why not. |
| 23 | Response: |
| 24 25 26 27 28 | FEI did not make any changes to the meter reading schedule during the pandemic, and the number of meter reads requested from FEI's meter reading service provider has always been based on the number of meters maintained by FEI. The number of actual reads obtained varied due to safety guidelines introduced in response to the ongoing COVID-19 pandemic and reduced staffing levels due to Olameter staff needing to isolate due to COVID-19 exposure or symptoms. |
| 29 30 | |
| 31 32 33 34 35 | 22.6 Please explain the results and accuracy of meter reading after: a) the State of Emergency in the Province of BC; and b) social distancing practices, were lifted. Response: |
| 36 37 | British Columbia was under the provincial state of emergency from March 18, 2020 until the end of day on June 22, 2021. However, social and physical distancing practices are still in place and |

38 recommended by the BC Centre for Disease Control.



The meter reading accuracy rate has improved from 2020 and, as reported in the Application, the accuracy rate as at the end of June 2021 was at 90.7 percent with the threshold being 92 percent.
FEI did not see a noticeable impact on results following the lifting of the provincial state of emergency. With physical distancing and other public health measures remaining in place, meter reading accuracy results may not return to benchmark levels until normal operating conditions can resume.

- 7
- 8 9
- 10On pages 87 to 88 of the BCUC's Decision to FEI and FBC's Application for Approval of11a Multi-Year Rate Plan for the Years 2020 through 2024 (MRP Decision), it stated:
- 12 [...] In addition, the BCUC determined that failure to meet an SQI could result in a 13 penalty where the BCUC may reduce the share of earnings above the allowed rate 14 of return that would otherwise flow to the Utilities. In such instance, the maximum 15 reduction to incentive earnings could result in a 60 percent ESM share to the 16 customer rather than the standard 50 percent.
- 17 [...]
- 18In general, a threshold is the minimum performance required, and failure to meet19a threshold could result in penalties being assessed during the Annual Review20proceedings. A benchmark is considered a target, based on industry standard or21best practice, and there is no penalty if it is not achieved. [...] FortisBC confirms22that it is proposing no changes to the existing approved process for interpreting23metric performance where one or more of the Utilities SQIs do not meet the24benchmark and falls outside of the threshold. [Footnote references removed]
- 25 On page 99 of the MRP Decision, it stated:
- FortisBC has confirmed that it is proposing no changes to the existing approved process for interpreting metric performance where one or more of the Utilities' SQIs do not meet the benchmark and fall outside of the threshold. The Panel is in agreement and finds provisions outlined in the Current PBR Plan Decisions continue to be reasonable. Therefore, the Panel determines that the existing approved process for interpreting metric performance is to remain in effect over the term of the MRPs. [Footnote references removed]
 - 22.7 Please discuss whether any penalty should be levied by the BCUC for the belowthreshold results for meter reading accuracy. If so, please quantify the penalty and explain how this was determined.

37 **Response:**

- 38 For the reasons explained in the response to BCUC IR1 22.1, no penalty should be levied.
- 39

33

34

35



| FortisBC Energy Inc. (FEI or the Company) Annual Review for 2022 Delivery Rates (Application) | Submission Date: September 28, 2021 |
|--|---|
| Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1 | Page 99 |

| 1 | 23.0 | Reference: | SERVICE QUALITY INDICATORS |
|---|------|---------------|---|
| 2 | | | Exhibit B-2, Section 13.2, Table 13-1, pp. 150, 158, 161 |
| 3 | | | Telephone Service Factor (Non-Emergency) and Average Speed to |
| 4 | | | Answer |
| 5 | | The following | is an extract of Table 13-1 in the Application: |

Table 13-1: Approved SQIs, Benchmarks and Actual Performance

| Performance Measure | Description | ן Benchmark | 「hreshold | 2020 Results | 2021 June YTD Results |
|--|--|-------------|-----------|-----------------|-----------------------------|
| Telephone Service Factor (Non- Emergency) | Percent of non-emergency calls answered within 30 seconds or less | >= 70% | 68% | 70% | 66% |
| Average Speed of Answer | Informational indicator – amount of time it takes to answer a call (seconds) | - | - | 72 | 80 |

10 On page 158 of the Application, FEI states:

11 In January and the early part of February 2021, the contact centres experienced a 12 challenging mix of call volumes and high average handle time that resulted in non-13 emergency telephone service factors for each month being below threshold levels. 14 Opportunities to enhance operational activities and processes were identified and 15 performance returned to above threshold levels in March, with performance at or 16 above threshold levels being sustained since that time. Due to the large volume 17 experienced in the first quarter of the year compared to the rest of the year, the 18 year-to-date performance as at June remains below threshold; however, FEI 19 expects that the annual performance threshold will be met should the current 20 performance levels continue as expected. Despite challenges with the telephone 21 service factor and average speed of answer in the early part of the year, the overall 22 impact on customer experience and service quality has been mitigated by 23 continued strong performance with first contact resolution. As such, the customer 24 service index has remained high throughout the period.

25 On page 161 of the Application, FEI states:

26 Comparatively, the ASA [average speed of answer] also experienced challenges 27 during January and February and, aligned with the recovery to threshold levels of 28 TSF, the monthly ASA also returned to typical levels of less than one minute 29 beginning in March. Relative to previous years, both 2020 and 2021 are higher; 30 however, they remain within a reasonable range from a customer experience 31 perspective in that, on average for the year, calls to the contact centre were 32 answered in just over one minute in 2020 and currently approximately one minute 33 and thirty seconds in 2021.

FORTIS BC

1

2

3

4

5

23.1 Please discuss any customer impacts of the lower 2021 June YTD telephone service factor (non-emergency) results and the higher average speed to answer. As part of the response, please explain the methods used to assess customer impact or experience.

6 Response:

FEI reiterates that, in accordance with Order G-44-16, the BCUC will evaluate FEI's 2021 SQI
performance in the Annual Review for 2023 Delivery Rates when actual SQI results are known.

9 FEI assesses customer impact by considering the TSF along with First Contact Resolution (FCR)

10 results as well as the informational indicators of Average Speed of Answer (ASA) and the

11 Customer Service Index (CSI). In addition, FEI reviews after-call survey results to further validate

12 and understand impacts.

13 In this regard, despite the TSF not meeting the threshold on a monthly basis for January and 14 February 2021 and the ASA being longer than typical for customers of FEI, feedback from 15 customers indicated that resolution remained high with the FCR achieving the benchmark on a 16 YTD basis. Further, the CSI results for the first two guarters were aligned with the strong 17 performance in this metric from previous years, the call back feature appeared to largely mitigate dissatisfaction with wait times and after-call survey results remained largely in line with average 18 19 monthly results. As such, FEI has concluded that the customer impacts of the lower June YTD 20 TSF and higher ASA have been largely limited to longer wait times at the start of the year and 21 have not had an impact on overall service quality in 2021.

- 22
- 23
- 24

25

26

- 23.2 Please explain any measures FEI has taken or will take to improve its performance in telephone service factor (non-emergency) and average speed of answer for the remainder of 2021 and for 2022.
- 27 28

29 **Response:**

30 FEI has taken measures to improve its performance to address the increase in call volumes and 31 average handle time experienced in the early part of 2021. While the telephone service factor 32 (TSF) is impacted by several variables, the increase experienced was largely due to an increase 33 in certain types of calls related to construction and new attachments, rebates and high bill inquiries 34 (please refer to the response to BCUC IR1 23.4 for a detailed description of these call types). 35 Once FEI identified the challenges being faced with these call types and overall handle time, FEI 36 identified opportunities for learning and development, refocused efforts on identifying efficiencies 37 in call handling and the work completed after calls, and reviewed workforce scheduling and new 38 hire training and forecasting to respond to the latest trends. For example, FEI:

• put in place changes to the order of new hire training modules to support specific queues;



4

5

- prioritized more detailed and frequent coaching sessions for employees and managers;
- enhanced communication regarding the service level targets and departmental and
 individual performance; and
 - improved access to individual performance metrics through dashboards.
- Performance stabilized and FEI achieved TSF (non-emergency) results above threshold levels
 (on a monthly basis) in March as well as reductions in the average speed of answer (ASA).
- 8 As shown in the table below, the monthly TSF performance has been above threshold since
- 9 March of 2021. FEI expects this SQI to meet threshold levels for 2021 overall and as at August
- 10 31, 2021 the year-to-date (YTD) result is above threshold at 69 percent.
- 11

Monthly 2021 Telephone Service Factor (Non-Emergency)

| Month | Monthly Service Level |
|--------------|--------------------------|
| January | 34% |
| February | 59% |
| March | 79% |
| April | 68% |
| Мау | 71% |
| June | 80% |
| July | 76% |
| August | 83% |
| Year to Date | 69% |

12

- 13 The average speed of answer has also consistently declined such that the YTD result as of August
- 14 31 is approximately 69 seconds. See the table below for the monthly ASA for 2021:

15

Monthly 2021 Average Speed of Answer (Seconds)

| Month | ASA |
|--------------|--------|
| January | 250.03 |
| February | 96.51 |
| March | 35.62 |
| April | 47.19 |
| May | 44.81 |
| June | 27.23 |
| July | 36.23 |
| August | 25.52 |
| Year to Date | 68.88 |



3 4

5 6 Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1

Page 102

Please clarify what FEI considers to be "a reasonable range from a customer 23.3 experience perspective" (e.g. calls answered within 1.5 minutes) and why.

7 Response:

8 FEI does not have a specific range that it considers reasonable; rather, FEI relies on customer 9 feedback and after-call survey results to determine whether wait times may be challenging for 10 customers and whether further action or alternatives are required. Anecdotally, and based on 11 FEI's participation in industry related events, FEI is aware that some utilities in Canada have

12 varying ranges of ASA, from under one minute to four minutes.

13 The call back feature, chat functionality and self-service options are all available to customers to 14 mitigate some of the challenges of longer than expected wait times that may occur from time to

- 15 time.
- 16 17 18 19 23.3.1 Please discuss whether FEI has compared its ASA with other utilities of 20 similar size in North America. If so, please discuss how FEI compares 21 with these other utilities. 22 23 Response: 24 Please refer to the response to BCUC IR1 23.3.
- 25
- 26
- 27
- 28 23.4 Please explain why there was an increase in call volumes and average handle time 29 in January and the early part of February 2021. As part of the response, please 30 provide a high-level summary of the subject matter(s) of these calls.
- 31
- 32 Response:

33 In the early part of 2021 FEI experienced a mix of high interaction volumes along with a mix of 34 call types that typically take longer than average to respond to. These types of calls include construction and new attachments, rebates and high bill inquiries. While FEI does forecast for an 35 36 overall increase in call volume during these months, particularly high bill inquiries, the actual 37 volume and mix of calls was different than expected. This impacted the overall average handle



1 time during this period and created significant pressure on meeting service level targets during 2 January and February. Each of these three call types is described further below.

3 With respect to construction and customer attachment related calls, FEI saw a reduction for most 4 of 2020 as compared to forecast; however, there was a resurgence in the first two months of 2021 5 and calls exceeded what had been forecast. Due to the nature of a construction call and new attachment, they can be lengthy calls that may require nearly double the amount of time of a 6 7 typical call. As such, even smaller unexpected volumes of these types of calls can have significant 8 impacts on overall handle time, as well as an impact on the timing of response to other types of 9 calls in the various queues.

10 Rebate-related calls are relatively new to FEI contact centre support, with these types of gas calls 11 having been repatriated from an outsourced provider in the Fall of 2020. As such, average handle 12 time for the latter part of 2020 and through 2021 was high relative to other call types due to contact 13 centre representatives getting more familiar and proficient with this call type, in addition to longer 14 conversations with customers regarding their unique energy efficiency needs and one-on-one 15 customer support in completing rebate-related applications. Similar to construction related calls 16 described above, rebate-related calls tend to have longer handle times than an average call due 17 to the nature of the conversations relative to other call types. Further, the success of the Double 18 the Rebates energy efficiency campaign in the Fall of 2020 contributed to a significant volume of 19 calls as a result of customer applications for this program extending into 2021.

20 High bill inquiries are a frequent call type during the early part of the year and also tend to have 21 a longer handle time. They can be lengthy conversations involving comparisons to historical 22 averages for the customer and exploring potential reasons that the customer is experiencing a 23 higher bill than expected, often resulting in working together to find bill payment solutions. While 24 fluctuations from forecast are not uncommon with this call type, the compounding impacts of the 25 higher volume with this call type and the impacts noted above with construction and rebates calls 26 led to overall significant increases in handle time as compared to expected average handle time 27 for the period.

- 28
- 29

- 30
- 31 Please provide a table that shows by year, the number of employees and total 23.5 32 FTEs in the contact centre and the number of non-emergency calls and other types 33 of calls received by the contact centre, respectively, for 2016 to June 2021 YTD. 34 An example table is provided below:
- 35



Submission Date: FortisBC Energy Inc. (FEI or the Company) September 28, Annual Review for 2022 Delivery Rates (Application) 2021

Page 104

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

| Contact Center | 2016 | 2017 | 2018 | 2019 | 2020 | June 2021 YTD |
|-----------------------|------|------|------|------|------|---------------------|
| Number of employees | | | | | | |
| FTE | | | | | | |
| Number of non- | | | | | | |
| emergency calls | | | | | | |
| Number of other calls | | | | | | |
| (please describe) | | | | | | |
| Total number of calls | | | | | | |

1

2 **Response:**

3 Please note that FEI has interpreted the question to be seeking inbound calls only and has

4 provided data as such. Furthermore, by reference to contact centres, FEI has interpreted the

5 question to be referring to employees that are intended to regularly support inbound queues. As such, FEI has not included billing related roles in the number of employees as these employees

- 6
- 7 are not intended to be regularly supporting inbound queues.
- 8 Please refer to the table below.

| Contact Center | 2016 | 2017 | 2018 | 2019 | 2020 | June 2021 YTD |
|------------------------------------|---------|---------|---------|---------|---------|---------------------|
| Number of employees ¹ | 148 | 160 | 151 | 141 | 146 | 157 |
| FTE ¹ | 130.4 | 140.3 | 134.0 | 123.2 | 124.8 | 133.5 |
| Number of non-emergency calls | 681,814 | 661,031 | 595,951 | 548,345 | 518,769 | 313,754 |
| Number of emergency calls | 56,823 | 58,746 | 45,295 | 45,789 | 42,569 | 21,555 |
| Number of other calls ² | - | 537 | 444 | 318 | 621 | 77 |
| Total number of inbound calls | 738,637 | 650,065 | 584,680 | 535,735 | 511,303 | 305,531 |

9 Notes to table:

¹ Based on monthly average and excludes employees in billing related roles. 10

11 ² FEI major project and external support that occurs from time to time, such as that provided to the BCEDA

12 (both during natural disaster response and the COVID-19 pandemic).



FortisBC Energy Inc. (FEI or the Company)
Annual Review for 2022 Delivery Rates (Application)Submission Date:
September 28,
2021Response to British Columbia Utilities Commission (BCUC) Information Request (IR) No. 1Page 105

1 24.0 Reference: SERVICE QUALITY INDICATORS

2 Exhib

Exhibit B-2, Section 13.2.3, Table 13-16, p. 163

Leaks per KM of Distribution System Mains

On page 163 of the Application, FEI provides Table 13-16:

Table 13-16: Historical Leaks per KM of Distribution System Mains

| Leaks per KM of Distribution System Mains | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | June 2021 YTD |
|---|--------|--------|--------|--------|--------|--------|--------|---------------------|
| Leaks | 114 | 102 | 107 | 108 | 140 | 139 | 152 | 70 |
| Total km | 19,172 | 22,602 | 22,813 | 22,951 | 23,060 | 23,268 | 23,460 | 23,707 |
| Leaks per km | 0.0059 | 0.0045 | 0.0047 | 0.0047 | 0.0061 | 0.0060 | 0.0065 | 0.0030 |
| 5 year average | 0.0077 | 0.0071 | 0.0063 | 0.0055 | 0.0052 | 0.0051 | 0.0056 | 0.0053 |

5

8

9

10

11

3

4

6 Further on page 163, FEI states that it does not expect the number of leaks to be a 7 continuing trend.

24.1 Please explain why FEI does not expect the number of leaks to be a continuing trend. Please also explain what steps, if any, FEI has taken to mitigate the incidence of leaks.

12 **Response:**

13 FEI does not expect the number of leaks to be a continuing trend because the variation shown in

14 Table 13-16 of the Application falls within normal longer-term leak history variation. The following

15 table provides the leak history from 2010 - 2020 showing periods where both increases and

16 decreases in the number of leaks occurred.

| | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
|-------|------|------|------|------|------|------|------|------|------|------|------|
| Leaks | 140 | 166 | 169 | 143 | 114 | 102 | 107 | 108 | 140 | 139 | 152 |

17

18 FEI has robust leak management processes in place, including leak surveys and asset 19 assessments to monitor leaks and the condition of the system as it ages, as well as programs to

20 repair or replace aging assets to mitigate the frequency of leaks.

Attachment 7.1

REFER TO LIVE SPREADSHEET MODELS

Provided in electronic format only

(accessible by opening the Attachments Tab in Adobe)