



Diane Roy
Vice President, Regulatory Affairs

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

Electric Regulatory Affairs Correspondence
Email: electricity.regulatory.affairs@fortisbc.com

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 21, 2022

B.C. Sustainable Energy Association
c/o William J. Andrews, Barrister & Solicitor
70 Talbot Street
Guelph, ON
N1G 2E9

Attention: Mr. William J. Andrews

Dear Mr. Andrews:

**Re: FortisBC Energy Inc. (FEI)
Annual Review for 2023 Delivery Rates (Application)
Response to the B.C. Sustainable Energy Association (BCSEA) Information
Request (IR) No. 1**

On July 29, 2022, FEI filed the Application referenced above. In accordance with the regulatory timetable established in British Columbia Utilities Commission Order G-240-22 for the review of the Application, FEI respectfully submits the attached response to BCSEA IR No. 1.

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

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments

cc (email only): Commission Secretary
Registered Parties

1 **1.0 Topic: 2023 Delivery Rate Increase**

2 **Reference: Exhibit B-2, Section 1.1 Introduction**

3 On page 1, FEI states:

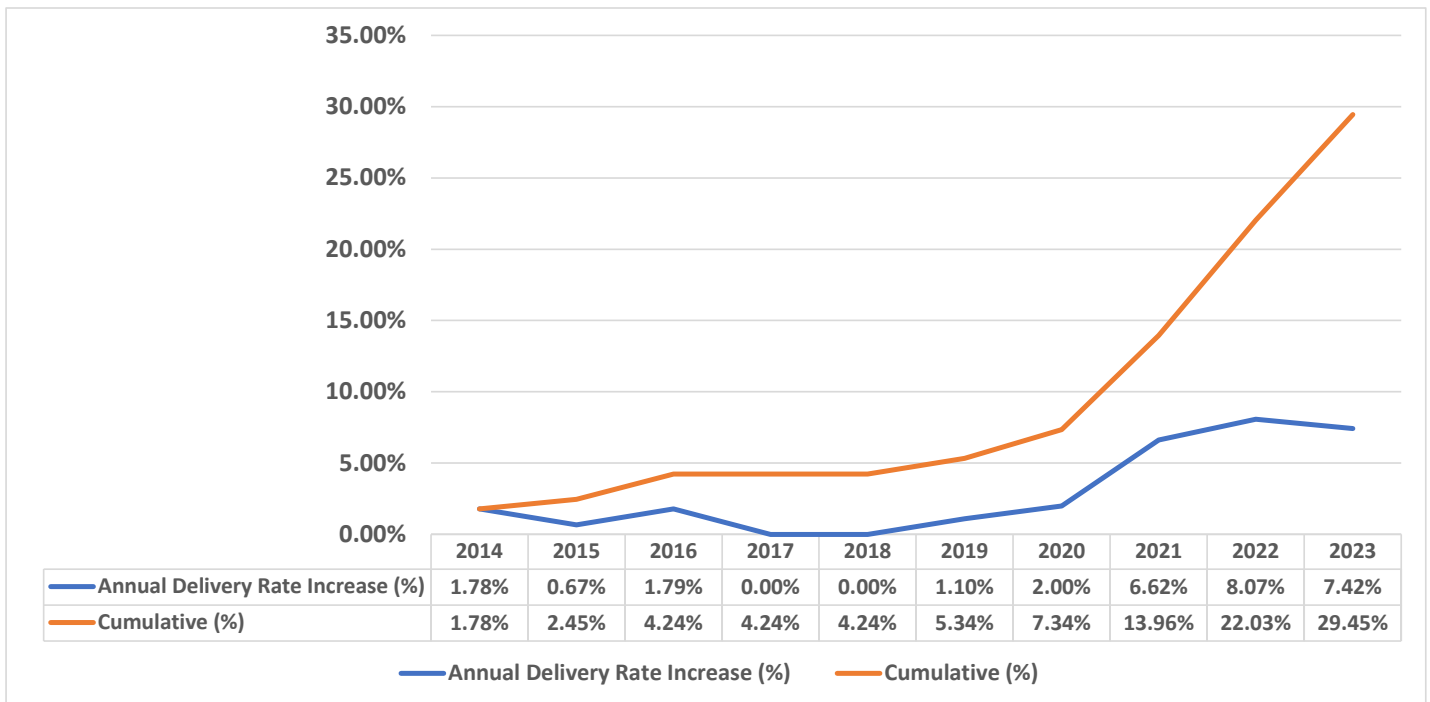
4 “The proposed delivery rates for 2023 flowing from the approved formulas and
5 forecasts set out in the Application, including returning the actual 2021 earnings
6 sharing to customers, result in a 7.42 percent delivery rate increase from 2022
7 delivery rates. [underline added, footnote omitted]

8 1.1 Please provide a graph and table showing cumulative annual changes in delivery
9 rates for 2023 (proposed) and nine previous years.

10 **Response:**

11 Please refer to Figure 1 below for the annual and cumulative delivery rate increases from 2014
12 to 2023 (proposed). FEI notes the average annual delivery rate increase over the 10-year period
13 is approximately 2.95 percent (i.e., 29.45 percent / 10 years).
14

15 **Figure 1: Annual and Cumulative Delivery Rate Increases from 2014 to 2023 (Proposed)**



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1.2 Please provide the percentage increase between 2022 and 2023 (proposed) for
delivery rates including delivery rate riders. If there is a difference between

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1 residential customers and other non-bypass customers, please explain why and
2 provide separate responses.

3

4 **Response:**

5 Please refer to the response to BCUC IR1 1.1 for the percentage increase in the average
6 customer bills from 2022 to 2023 (proposed) for FEI's residential (Rate Schedule 1), commercial
7 (Rate Schedules 2 and 3), and industrial (Rate Schedules 4 – 7) customers, including delivery
8 rate riders. FEI notes the percentages are different between different rate classes due to a
9 number of reasons:

- 10
- The consumption levels are different between the different rate schedules;
- 11
- The basic charges are different between each rate schedule;
- 12
- Rate Schedule 5 General Firm Service includes a demand charge per month while all
- 13
- other rate schedules only include a basic and variable delivery rate charge; and
- 14
- Not all delivery rate riders are applied to all rate classes. For instance, the RSAM rate
- 15
- rider is only applicable to Rate Schedules 1, 2, 3, and 23.
- 16

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1 **2.0 Topic: Island Generation**

2 **Reference: Exhibit B-2, Section 1 Approvals Sought, Overview of the**
3 **Application and Proposed Process**

4 On page 1, FEI states that the proposed increase in delivery rates for 2023 is due in part
5 to “a decrease in demand primarily due to FEI’s contract with BC Hydro Island
6 Generation (IG) expiring in April 2022.”

7 On page 28, FEI states:

8 “... FEI’s contract with BC Hydro Island Generation (IG) expiring in April 2022, ...
9 had a contract demand of approximately 16.4 PJ. BC Hydro IG is now included in
10 the 2023F as a fully interruptible RS 22 customer with a forecast minimum
11 contract demand of 12 TJ per month (or 1.2 PJ per year).

12 In its Application for a Revised Renewable Gas Program, FEI states on page 29 of
13 Exhibit B-11:

14 “The 2018 CleanBC Plan enabled gas utilities to reduce emissions by increasing
15 the renewable content of their gas stream to 15 percent renewable content by
16 2030. Displacing 15 percent of the gas supply with Renewable Gas would
17 increase the annual supply of Renewable Gas in FEI’s system to approximately
18 30 PJs.

19 The provincial government’s approach with respect to the emissions of natural
20 gas utilities was recently updated in the CleanBC Roadmap with the introduction
21 of a GHG emissions cap. The cap, if introduced into legislation, will limit the
22 overall emissions from the gas used by all customers of gas utilities including
23 residential, commercial and industrial sectors. This is the first policy of this kind in
24 Canada which places an obligation on gas utilities to reduce emissions on behalf
25 of their customers. The cap, as laid out in the CleanBC Roadmap, is set at 6.11
26 Mt of CO₂e per year at 2030. This represents a 47 percent reduction in GHG
27 emissions from 2007 levels, and will require utilities to increase Renewable Gas
28 content, increase investments in energy efficiency and employ other mechanisms
29 to lower emissions. FEI expects that Renewable Gas content exceeding 15
30 percent will be required to meet this lower emission threshold by 2030. Details on
31 the cap are under development; however, FEI sees the potential Renewable Gas
32 supply requirements being between 45 and 65 PJs by 2030.”

33 2.1 Does BC Hydro’s switch from firm to interruptible gas service for Island
34 Generation help FEI meet the forthcoming GHG Emissions Cap for Natural Gas
35 Utilities?
36

37 **Response:**

38 FEI is engaging with the provincial government to inform the development of the GHG
39 Emissions Cap for Natural Gas Utilities (the Cap). Based on the high-level direction provided on

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1 the Cap in the CleanBC Roadmap, FEI understands that the Cap will apply to all emissions
2 associated with the natural gas FEI delivers to customers in the buildings and downstream
3 industry sectors, and would not include the Island Generation system. FEI therefore does not
4 expect that interruptible gas service for Island Generation, or any decrease in their use of gas,
5 will assist with compliance towards the Cap.

6
7

8

9 2.2 Does FEI expect that GHG emissions from the combustion of natural gas at
10 Island Generation to produce electricity for BC Hydro would be allocated to BC
11 Hydro, or to FEI, under the forthcoming GHG Emissions Cap for Natural Gas
12 Utilities?

13

14 **Response:**

15 Please refer to the response to BCSEA IR1 2.1.

16

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1 **3.0 Topic: Methane Leak Detection**

2 **Reference: Exhibit B-2, Section 1.4.2 Productivity Initiatives**

3 FEI is investigating the use of satellite-based infrared remote sensing technology
4 (“Methane Leak Detection”). [Exhibit B-2, page 5]

5 3.1 To what extent does or will Methane Leak Detection contribute to reducing FEI’s
6 GHG emissions?

7
8 **Response:**

9 Currently, annual fugitive emissions on FEI’s distribution system are calculated based on a per
10 asset leak formula regardless of whether fugitive leaks on FEI’s assets are actually present or
11 not. Because of this, FEI believes the current distribution system fugitive emissions as
12 calculated by a formula may be overstated as compared to the fugitive emissions determined
13 using internal leak data as measured by leak surveys. The use of satellite technology will
14 provide more accurate fugitive emissions data which FEI expects to be lower, demonstrating a
15 reduction in emissions from the current reported figures. FEI does not have an estimate of this
16 potential reduction at this time.

17

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1 **4.0 Topic: Paperless Billing**

2 **Reference: Exhibit B-2, Section 1.4.2 Productivity Initiatives**

3 On page 7, FEI states: “At the start of 2021, FEI had approximately 463,000 customers
4 choosing paperless billing as their preferred bill delivery method.” As a result of
5 “Paperless Billing Customer Campaigns,” FEI says it “achieved an increase of
6 approximately 47,000 customers choosing this option in 2021.”

7 4.1 Please provide statistics on paperless billing on a percentage of customers basis.

8
9 **Response:**

10 At the end of 2021, approximately 49 percent of FEI customers were delivered their bills on a
11 paperless basis. As of June 2022, the percentage increased to approximately 51 percent.

12
13

14
15 4.2 Does FEI see room for further growth in the proportion of customers choosing
16 paperless billing?

17
18 **Response:**

19 Yes, FEI believes that there is room for further growth in the proportion of customers choosing
20 paperless billing and FEI will continue to promote this option and consider how best to inform
21 and encourage customers to take advantage of the opportunity.

22
23

24
25 4.3 Does FEI experience significant amounts of churn with paperless billing (i.e.,
26 customers choosing to return to paper billing)?

27
28 **Response:**

29 FEI does not experience a significant amount of churn in paperless billing, with only
30 approximately 5,000 customers choosing to return to paper bills every year. This represents
31 less than approximately 0.5 percent of the customer base.

32
33

34
35 4.4 What does FEI see as the main impediments to customers choosing paperless
36 billing. Which of these are amenable to action by FEI?

37

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1 **Response:**

2 FEI believes that there are various reasons that could be impeding customers from choosing
3 paperless billing, including the following:

- 4 • Awareness and interest;
- 5 • Security concerns around online access;
- 6 • Accessibility to reliable internet in some rural areas;
- 7 • Accounting requirements and practices for commercial and industrial customers
8 requiring paper bills; and
- 9 • Customers using physical bills as payment reminders.

10 While FEI may not be able to directly address all of these potential impediments, FEI believes
11 that customer awareness and interest and providing payment reminders will continue to be two
12 areas that FEI can focus on and achieve success with.

13

14

15

16 4.5 What entities does FEI see as its peers for comparison regarding paperless
17 billing? How does FEI's percentage of customers choosing paperless billing
18 compare with FEI's peers?

19

20 **Response:**

21 FEI considers mid-size regulated Canadian energy utilities as its peers for comparison on
22 paperless billing. Based on information from a recent utilities survey¹ showing 2021 paperless
23 billing adoption numbers, the highest percentage of paperless billing observed was 56 percent
24 and the lowest was 32 percent. FEI's paperless billing adoption stands at 49 percent as at the
25 end of 2021.

26

¹ Chartwell 2021 Billing Utility Industry Survey.

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1 **5.0 Topic: Clean Growth Initiative**

2 **Reference: Exhibit B-2, Section 6.3 O&M Expense Forecast Outside the**
3 **Formula; 6.3.5 Clean Growth Initiative – Biomethane O&M; 6.3.6**
4 **Clean Growth Initiative – Renewable Gas Development; 6.3.7 Clean**
5 **Growth Initiative – NGT O&M; 6.3.8 Clean Growth Initiative – Variable**
6 **LNG Production Costs**

7 5.1 Please explain the term “Clean Growth Initiative.” Is it simply descriptive of four
8 categories of non-Formula O&M spending? Is it a program? How does “Clean
9 Growth Initiative” relate to O&M spending on prescribed undertakings under the
10 GRR?

11
12 **Response:**

13 The term “Clean Growth Initiative” describes a category of non-Formula (i.e., Flow-through)
14 O&M spending that includes expenditures related to Clean Growth activities that do not form
15 part of FEI’s Base O&M, either because they were specifically approved for Flow-through
16 treatment in the MRP Decision, were not contemplated at the time of the MRP Application and
17 therefore clearly do not form part of Base O&M, and/or are expenditures on prescribed
18 undertakings under the GRR.

19 As described in the 2020-2024 MRP Application (and approved as part of the MRP Decision,
20 page 119, and Orders G-165-20 and G-166-20), during the MRP term FortisBC will forecast a
21 number of O&M expenditures annually outside of the Formula, with the variances between
22 forecast and actual amounts recorded in the Flow-through deferral account and returned
23 to/recovered from customers in the subsequent year. One of these categories identified was
24 the following:

25 O&M (and the cost of service of related capital expenditures) to support the
26 Companies’ investments in a clean growth future. This category currently
27 consists of NGT stations and tankers, variable LNG production, RNG, EV
28 charging, but over the term of the Proposed MRPs either FEI or FBC may
29 propose to include other initiatives in alignment with government policy.²

30 The category of Clean Growth Initiative O&M spending includes FEI’s O&M spending on
31 prescribed undertakings under the GRR, though it is not exclusive to GRR-related
32 expenditures. For instance, the Variable LNG Production Costs O&M is included within the
33 Clean Growth Initiative category due to the fact that LNG is part of FEI’s investment in a clean
34 growth future. As described in the above excerpt from the MRP Application, at that time, FEI
35 had identified investments in its clean growth future as including LNG, RNG (biomethane) and
36 NGT. Since that time, RNG (or biomethane) has been expanded to include a wider category of
37 renewable gases, as reflected in the changes to the GRR since the MRP Application. As a
38 result, since the 2020-2021 Annual Review, FEI has included a new line item within the Clean
39 Growth Initiatives category related to Renewable Gas Development. The expenditures for

² MRP Application, p. C-110.

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1 Renewable Gas Development are required to support the continued growth of the renewable
2 gas portfolio. These expenditures were not contemplated at the time of the MRP Application as,
3 at that time, the concept of renewable gas under the GGRR was limited to RNG or biomethane.
4 Accordingly, the specific expenditures (whether they be for internal or external resources) were
5 not included within FEI's Base O&M.

6

1 **6.0 Topic: Renewable Gas Development**

2 **Reference: Exhibit B-2, Section 6.3.6 Clean Growth Initiative – Renewable Gas**
3 **Development**

4 Table 6-9: Renewable Gas Development O&M shows Renewable Gas Development
5 spending of \$1 million, \$1.75 million and \$2 million for Approved 2022, Projected 2022,
6 and Forecast 2023, respectively.

7 FEI states:

8 “In order to support the continued growth of the renewable gas portfolio, including
9 the incorporation of other renewable gases such as hydrogen, synthesis gas
10 (syngas) and lignin, FEI requires resources within its Renewable Gas team to
11 work on safety, codes and standards, and for feasibility work more generally.”
12 [p.51, underline added]

13 6.1 Please elaborate on the work being done with the Renewable Gas Development
14 O&M spending.

15
16 **Response:**

17 FEI’s response to CEC IR1 30.1 in the 2022 Annual Review provided a multi-year outlook on
18 the expected work that will be required to develop new forms of renewable gas supply into the
19 program, which includes additional activities related to technological innovation, project
20 development, and other enabling activities. FEI continues to resource and undertake this work
21 including the following specific activities that are currently underway and will advance through
22 2023:

- 23 • Progressing detailed modelling to examine technical feasibility, economic analysis, life-
24 cycle carbon intensity and project requirements for new innovative ways to produce
25 renewable gas supply at different scales utilizing various feedstocks in BC.
- 26 • Informing and supporting efforts to conduct further amendments on the *Greenhouse Gas*
27 *Reduction (Clean Energy) Regulation (GGRR)* which would allow other tools to acquire a
28 broader range of renewable and low-carbon gases.
- 29 • Participating in multiple NRCan gas industry working groups under the remit of the
30 Canada Hydrogen Strategy to identify and address challenges and barriers to
31 successfully deploy renewable and low-carbon hydrogen for heating.
- 32 • Supporting research and development institutions such as UBC, and working with gas
33 industry peers, technical regulators and standards organizations to identify knowledge
34 gaps and develop standards, procedures and approval pathways to integrate hydrogen
35 into the gaseous energy supply.
- 36 • Collaborating with other operators in BC to advance a multi-year project to complete an
37 in-depth technical assessment on the overall provincial gas system to determine
38 requirements to blend and distribute hydrogen, and establish the necessary standards

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1 regarding end-use impacts, customer and stakeholder education, and other
2 organizational changes that will enable the safe distribution and customer end-use of
3 hydrogen. This project is scheduled to be completed by 2025.

- 4 • Advancing project development on FEI's first hydrogen blending demonstration project in
5 BC that is planned for 2024.
- 6 • Investigating feasible innovative pathways to develop large scale renewable and low-
7 carbon hydrogen supply in BC. For example, FEI, Suncor and Hazer Group are planning
8 to deploy the Hazer Groups innovative methane pyrolysis technology in a pre-
9 commercial facility in BC that would produce approximately 0.3 petajoules per year low
10 carbon intensity hydrogen from natural gas and clean electricity; the carbon would be
11 captured as a solid graphite byproduct. Subject to positive results from ongoing technical
12 feasibility work this project is planned to be in operation by 2026.
- 13 • Actively pursuing syngas and lignin development, which presents an opportunity to
14 decarbonize industrial energy use by directly displacing natural gas in boilers and kilns.
15 For example, FEI is working with a pulp and paper mill in BC to develop a first of a kind
16 project to use lignin to partially displace approximately 0.5 petajoules per year onsite
17 natural gas use and decarbonize their thermal processes and this project is planned to
18 be in operation by 2024.
- 19 • Preparing multiple funding applications to various provincial and federal funding
20 agencies for funding contribution to support and de-risk innovative supply projects and
21 other market development activities for hydrogen, syngas, and lignin production and
22 customer update of these new forms of renewable gas in BC.

23
24
25
26 Regarding the 2023 Forecast O&M for Clean Growth Initiative – Renewable Gas
27 Development, FEI states:

28 “The 2023 Forecast O&M is approximately \$2.0 million, which is an increase from
29 the 2022 Projected amount, and is related to requirements to continue work on
30 project feasibility, safety, codes and standards, and business development. In
31 addition to the work identified above, FEI is seeing the need to support
32 Indigenous groups that are exploring the production of renewable gases in their
33 communities. FEI requires funding to hire internal resources to work with
34 Indigenous groups on the evaluation of opportunities. FEI expects the
35 Renewable Gas Clean Growth Initiative to be an area that will continue to grow
36 as FEI's supply of renewable gas increases to meet provincial targets.” [p.52,
37 underline added]

38 6.2 How much of the Forecast 2023 O&M for Clean Growth Initiative – Renewable
39 Gas Development is related to internal resources to work with Indigenous groups

1 on the evaluation of opportunities for the production of renewable gases in their
2 communities?

3

4 **Response:**

5 Please refer to the response to BCUC IR1 13.1.

6

7

8

9 6.3 Please discuss at a high level the types of opportunities for the production of
10 renewable gases in Indigenous communities.

11

12 **Response:**

13 Please refer to the response to BCUC IR1 13.2.

14

15

16

17 On page 54, FEI states:

18 “Contractor costs are for variable contractor services used for truck loading and
19 support of production related activities. In 2022, it is expected that contractor
20 costs will be similar to the 2022 Approved based on the anticipated work for the
21 year. In 2023, higher contractor services are forecast due to inflation and may
22 vary as the Company starts to reach full time operations.” [underline added]

23 6.4 Please explain what is meant by “may vary as the Company starts to reach full
24 time operations” in the passage quoted above.

25

26 **Response:**

27 The underlined phrase notes that contractor services may vary as the Tilbury 1A facility starts to
28 reach full time operations.

29 Full time operations in this context is the point where the plant runs continuously all year with a
30 short break (approximately 20 days) for maintenance activities. To date, full time operations
31 have not been achieved as LNG sales have been impacted by the COVID-19 pandemic and the
32 subsequent impacts to the global economy.

33 Contracting costs may not be consistent year-over-year as these costs are dependent on a
34 number of factors that can differ from one year to the next. For example, in some years there
35 may be a higher level of maintenance activity required to support production activities. These
36 activities could be based on equipment condition or regulatory requirements which could drive
37 different spending requirements.

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1 **7.0 Topic: Emissions Regulations Deferral Account**

2 **Reference: Exhibit B-2, Section 7.5.2.2 Emissions Regulations deferral account**

3 The original rationale for the five-year amortization period of the Emissions Regulations
4 deferral account is stated as follows:

5 “In the FEI Annual Review for 2017 Delivery Rates Application, FEI requested
6 and received approval through Order G-182-16 to amortize any additions to the
7 [Emissions Regulations] account over a period of five years. In that Application,
8 FEI stated ‘This amortization period is appropriate given that FEI expects to
9 continue to receive revenues which will vary depending on the number of credits
10 FEI earns under the RLCFRR and the price at which FEI is able to sell those
11 credits. The longer recovery period of five years will help smooth the rate impact
12 on customers as these revenues are received from time to time.’ [p.84, underline
13 added]

14 In the current filing, FEI requests approval to reduce the amortization period of the
15 Emissions Regulations deferral account from five years to one year. FEI explains:

16 “In this Application, FEI is requesting approval to change the amortization period
17 of this deferral account from five years to one year. As of the end of the first
18 quarter of 2022, the British Columbia Low Carbon Fuel Standard (BC-LCFS) has
19 validated approximately 80,149 in carbon credits for FEI that have accumulated
20 since 2019, with an approximate market value of \$37.5 million. FEI anticipates
21 monetizing those amounts through the sale of credits prior to the end of 2022.
22 Given the significant dollar amount expected to be received and the time period
23 that has already elapsed between when the credits were earned and validated,
24 accelerating the return of these credits to customers is the appropriate measure
25 to take and may serve to mitigate other rate pressures in the short-term, which
26 will be beneficial to customers in the current market environment. [p.84, footnote
27 omitted, underline added]

28 7.1 Please elaborate on the rationale for reducing the amortization period of the
29 Emissions Regulations deferral account from five years to one year.

30
31 **Response:**

32 Please refer to the response to BCUC IR1 22.3.

33
34

35

36 7.1.1 Is it no longer the case that “FEI expects to continue to receive
37 revenues which will vary depending on the number of credits FEI earns
38 under the RLCFRR and the price at which FEI is able to sell those
39 credits”?

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1

2 **Response:**

3 Please refer to the response to BCUC IR1 22.5.

4

5

6

7 7.1.2 Does FEI anticipate stable annual revenues from the sale of credits
8 under the BC Low Carbon Fuel Standard in 2022 and the years
9 following?

10

11 **Response:**

12 Please refer to the response to BCUC IR1 22.5.

13

14

15

16 7.2 What would be the impact on 2023 delivery rates of retaining the five-year
17 amortization period for the Emissions Regulations deferral account?

18

19 **Response:**

20 Please refer to the response to BCUC IR1 22.3.

21

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1 **8.0 Topic: Renewable Gas Program**

2 **Reference: FEI Annual Review for 2022 Rates, Exhibit B-5, FEI Response to**
3 **BCSEA IR 3.1, 3.2**

4 In the Annual Review for 2022 Rates, FEI provided a useful update on the Renewable
5 Natural Gas program (as it was then called.)

6 8.1 Please provide an update on FEI's Renewable Gas Program.

7
8 **Response:**

9 For 2022, FEI is forecasting that the total RNG delivered from the on-system and off-system
10 biomethane facilities currently in operation will be approximately 2.0 PJ compared to about 0.75
11 PJ of RNG delivered in 2021. An additional approved supply project, currently under
12 construction, may add a further 0.01 PJ in the last two months of 2022, which would increase
13 the total forecast RNG delivered from operational biomethane facilities slightly.

14 In the period from September 1, 2021 to September 1, 2022, FEI received BCUC approval for
15 nine new biomethane supply agreements. This brings FEI's current portfolio of operational
16 biomethane facilities and approved biomethane projects to 31. The total maximum annual
17 contractual volume of the current portfolio of projects is approximately 23.1 PJ.

18 FEI intends to file new applications with the BCUC for several additional biomethane supply
19 agreements by the end of 2022, which may add an incremental 1.7 PJ to the expected annual
20 volume. Based on currently operational projects and those expected to start delivering
21 biomethane in 2023, FEI forecasts that the total RNG delivered volume in 2023 will be
22 approximately 5.3 PJ compared to 2.0 PJ in 2022.

23 FEI re-opened its existing voluntary RNG Program to new enrollment in mid-October of 2021.
24 Since that time customer enrollment has grown from approximately 9,500 prior to re-opening to
25 approximately 10,600 as of September 2022. Total customer demand for RNG is expected to
26 be approximately 1.4 PJ in 2022. However, several large volume consumers are actively
27 evaluating a decision to purchase RNG and may enroll in the near future. The actual demand
28 may therefore exceed the forecast demand by year end.

29

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1 **9.0 Topic: Employee Retention**

2 **Reference: Exhibit B-2, Section 13.2.2.4 Telephone Service Factor (Non-**
3 **Emergency)**

4 The 2022 Year to Date figure for Telephone Service Factor (Non-Emergency) is below
5 the benchmark and the threshold. Related, the 2022 Year to Date figure for the
6 informational Average Time to Answer is well above previous years' figures (i.e., worse.)
7 On page 174, FEI states:

8 "Customer Service is experiencing higher than expected levels of attrition, having
9 lost 65 Customer Service employees in 2021."

10 9.1 Does FEI see its employee retention difficulties in Customer Service as an
11 indication of a potential for having employee retention difficulties in other areas of
12 the Company?

13
14 **Response:**

15 FEI does not see the higher-than-expected levels of attrition within Customer Service to
16 necessarily be an indicator of retention difficulties across the Company. Historically, Customer
17 Service has always trended higher in voluntary turnover than other parts of the business.

18

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1 **10.0 Topic: Gibsons Capacity Upgrade Project**

2 **Reference: Exhibit B-2, Section 1.2 Orders Sought; section 7.2.3.2.2 Gibsons**
3 **Capacity Upgrade Project; Appendix C3 Gibsons Capacity Upgrade**
4 **Business Case**

5 FEI seeks acceptance, pursuant to section 44.2(3) of the UCA, of a capital expenditure
6 schedule consisting of the capital expenditures for the GCU Project, as described in
7 Section 7.2.3.2.2 and in Appendix C3.” [page 2]

8 In Appendix C3, FEI introduces the Gibsons Capacity Upgrade Project as follows:

9 “FEI is planning to construct the Gibsons Capacity Upgrade (GCU) project, which
10 consists of the installation of a slow filling peak shaving Compressed Natural Gas
11 (CNG) facility in Gibsons. Its purpose will be to create extra capacity in the
12 system by generating and storing CNG during periods of low gas demand to
13 supplement the system during periods of high demand. The purpose of the GCU
14 project is to provide a cost-effective long-term capacity solution to address the
15 current capacity shortfall in the Gibsons community. The total Class 3 cost
16 estimate for the project is \$12.194 million, which is below FEI’s Certificate of
17 Public Convenience and Necessity (CPCN) threshold. FEI is therefore seeking
18 approval of the GCU as a Major Project in this Annual Review pursuant to
19 section 44.2(3) of the Utilities Commission Act.” [Exhibit B-2, pdf p.268]

20 FEI later states:

21 “Currently there is insufficient inlet pressure available to the Gibsons District
22 Station during FEI design conditions. FEI has been managing this shortfall
23 through the current availability of higher than contracted heating values present
24 in the natural gas network, and by contracting a CNG trailer to be available on
25 short notice during winter months to supplement low inlet pressures at the
26 Gibsons District Station.” [Exhibit B-2, pdf p.269, underline added]

27 10.1 Please provide evidence that the capacity of the current IP pipeline to Gibsons is
28 insufficient to meet current peak demand without temporary mitigation measures.

29
30 **Response:**

31 Please refer to the response to BCUC IR1 33.1.

32
33

34
35 10.2 Did FEI examine demand-side measurements as a full or partial solution to the
36 capacity shortfall in Gibsons? If so, why were DSM approaches rejected? If not,
37 why not?
38

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1 **Response:**

2 FEI has not examined demand side measures as a solution for addressing peak demand in
3 Gibsons. While DSM measures are very effective in reducing annual demand, the ability of DSM
4 programs to address peak demand is uncertain. FEI is exploring means to address peak
5 demand reliably and verifiably through DSM, as discussed in FEI's 2022 Long Term Gas
6 Resource Plan (LTGRP). However, such efforts to explore and verify the effectiveness of DSM
7 programs on peak demand will take several years to implement. The capacity shortfall in the
8 Gibsons system requires more immediate action. The GCU project provides tangible and
9 verifiable support for peak demand that DSM programs directed at peak demand cannot
10 currently provide.

11

12

13

14

In Appendix C3, FEI refers to “higher than contracted heating values”:

15

“Currently there is insufficient inlet pressure available to the Gibsons District
16 Station during FEI design conditions. FEI has been managing this shortfall
17 through the current availability of higher than contracted heating values present
18 in the natural gas network, and by contracting a CNG trailer to be available on
19 short notice during winter months to supplement low inlet pressures at the
20 Gibsons District Station.” [pdf p.269, underline added]

21

10.3 Please explain “the current availability of higher than contracted heating values
22 present in the natural gas network” and why this would not be an ongoing
23 resource to mitigate low inlet pressures at the Gibsons District Station.

24

25 **Response:**

26 Please refer to the response to BCUC IR1 33.5.

27

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1 **11.0 Topic: Facilities, Capex, Energy Efficiency and GHG Reductions**

2 **Reference: Exhibit B-2, Section 7.2.1.2.2 Facilities, Capital Expenditures to**
3 **Support Energy Efficiency and GHG Reductions**

4 On page 65, FEI states:

5 “The Updated 2023 and 2024 Forecasts include \$1.8 million in each year for
6 expenditures that are specifically in support of energy efficiency and GHG
7 reductions.”

8 FEI states further:

9 “Historically, the Facilities department has prioritized capital spending for
10 capacity planning, end-of-life replacements, and meeting building codes and
11 regulations. However, in light of the importance of addressing climate change,
12 Facilities is now focusing on advancing climate action initiatives and strategies.
13 Examples of advancements are installation of EV charging infrastructure,
14 upgrading lighting to LED, completing energy audits to identify opportunities to
15 inform capital planning, and incorporating energy efficiency components in long-
16 term lease agreements.” [p.65, underline added]

17 11.1 Please explain why \$1.8 million in each of 2023 and 2024 for Facilities capital
18 expenditures for energy efficiency and GHG reductions is a sufficient budget to
19 enable FEI to meet its energy efficiency and GHG reduction objectives in the
20 Facilities area.

21
22 **Response:**

23 FEI created an Energy Management Program to prioritize and advance energy efficiency and
24 GHG reduction objectives in the Facilities area. The first steps of an Energy Management
25 Program are to build momentum by implementing easy, high impact or low-cost energy
26 management projects and creating the foundational pieces. Examples of foundational pieces
27 being created are benchmarks and baselines, completing audits to identify and document
28 opportunities, building an energy team, energy management assessments, and a strategic
29 energy management plan. The Energy Management Program is an ongoing program and future
30 capital expenditure forecasts (i.e., beyond 2024) will continue to include funding in this area. In
31 2023 and 2024, FEI will be working to advance the Program to the next steps and complete
32 more complex projects in the future.

33 For 2023 and 2024, while momentum is being built and the foundational pieces of the Program
34 are advancing, the forecast expenditures are sufficient to support energy efficiency and GHG
35 reduction objectives in the Facilities area. After 2024, as FEI advances and progresses to the
36 next step, it expects that increased capital expenditures will be necessary to support objectives.

37

38

1
 2 11.2 Please provide a table comparing the forecast 2023 and 2024 Facilities capital
 3 expenditures for energy efficiency and GHG reductions capital spending before
 4 and after the Update.

5
 6 **Response:**

7 There were no capital expenditures included in Other Capital in the Original Forecasts for 2023
 8 and 2024 for energy efficiency and GHG reduction projects. Please refer to Table 1 below
 9 comparing between the Original Forecasts of zero and the Updated Forecasts of \$1.8 million in
 10 each of 2023 and 2024.

11 **Table 1: Original and Updated Forecasts of Capital Expenditures to Support Energy Efficiency**
 12 **and GHG Reductions (\$ millions)**

Description	2023 Original Forecast	2023 Updated Forecast	2024 Original Forecast	2024 Updated Forecast
Energy Efficiency and GHG Reductions (Other Capital)	\$ -	\$1.800	\$ -	\$ 1.800

13

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1 **12.0 Topic: BVA Rate Rider**

2 **Reference: Exhibit B-2, Section 10.3.1 BVA Rate Rider; BCUC Proceeding re FEI**
3 **Revised Renewable Gas Program, Exhibit B-11, page 127**

4 On page 100 of the Application, FEI states:

5 “In summary, the 2023 BVA rate rider attributable to the cumulative December
6 31, 2022 transfers from the BVA is \$0.132 per GJ recoverable from all non-
7 bypass customers.”

8 In December 2021, FEI filed an Application for Approval of a Revised Renewable Gas
9 Program with the BCUC. In that Application, FEI states:

10 “With the proposed changes to the Renewable Gas Program in this Application,
11 particularly the mechanism to deliver Renewable Gas to all customers through
12 the S&T LC rider, the BVA Balance Transfer account will no longer be required.
13 FEI will retain its use throughout 2023 to close out the balances in the BVA
14 Balance Transfer account¹²⁰ at the end of 2022. FEI will discontinue the use of
15 this account after this time, and propose disposition of any residual balances in a
16 future annual review or revenue requirements application.

17 ¹²⁰ The BVA Rate rider, used to recover the projected 2022 ending balance of the
18 BVA Balance Transfer account, will be calculated in FEI’s Annual Review for
19 2023 rates.” [Exhibit B-11, page 127, underline added]

20 12.1 Has anything changed regarding the BVA Balance Transfer account and the BVA
21 rate rider for 2023 between the December 2021 discussion in the Revised
22 Renewable Gas Program Application and the Annual Review for 2023 Delivery
23 Rates filing?
24

25 **Response:**

26 No. The BVA Balance Transfer account and BVA Rate Rider continue to operate for 2023 as
27 approved. The proposed changes to the BVA Balance Transfer account and BVA rider as
28 referenced in the preamble above are part of FEI’s Revised Renewable Gas Program
29 Application³ which is still currently under review with the BCUC. If approved, these changes
30 could be effective on January 1, 2024.

31

³ Comprehensive Review and Application for a Revised Renewable Gas Program, filed on December 17, 2021.

1 **13.0 Topic: Clean Growth Innovation Fund**

2 **Reference: Exhibit B-2, Section 10.3.3 Clean Growth Innovation Fund (CGIF);**
3 **Table 10-6 Clean Growth Innovation Fund 2020-2023 Deferral**
4 **Account Continuity; Table 10-7: Approved and Rejected Spending**
5 **for Portfolios One through Four**

6 13.1 In Table 10-6 Clean Growth Innovation Fund 2020-2023 Deferral Account
7 Continuity, does Gross Additions refer to approved grants (regardless of whether
8 the funds have been paid out yet)?

9
10 **Response:**

11 The Gross Additions in Table 10-6 of the Application reflect the actual/projected expenditures
12 (i.e., funds that have been paid out for January 2020 through June 2022 and are expected to be
13 paid out for July 2022 through December 2023), regardless of whether the grant has been
14 approved yet or not. The total combined Gross Additions of approximately \$6.1 million include
15 amounts related to grants which have already been approved, and also grants which are not
16 approved yet but are expected to be. Please also refer to the response to BCOAPO IR1 11.2.

17
18

19
20 13.2 Please explain AFUDC in Table 10-6.

21
22 **Response:**

23 FEI clarifies Table 10-6 of the Application should have said after-tax weighted-average cost of
24 capital (WACC) return instead of AFUDC, which stands for Allowance for Funds Used During
25 Construction. FEI also clarifies that the AFUDC rate equals the after-tax WACC rate, thus FEI
26 inadvertently labelled it as “AFUDC” in Table 10-6 instead of “WACC Return”. As approved in
27 the MRP Decision and Order G-165-20, page 156, the Clean Growth Innovation Fund (CGIF)
28 deferral account is approved as a non-rate base deferral account attracting a WACC rate of
29 return. To further clarify, the amounts reported on that line in Table 10-6 are correct and would
30 not change with the re-naming of the line.

31

32

33

34 With reference to Table 10-6, FEI states:

35 “In total, \$2.5 million in actual expenditures have been invested up to June 2022,
36 with a further \$1.1 million projected to the end of 2022, and \$2.5 million for 2023.”
37 [page 101]

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1 13.3 Please confirm, or otherwise explain, that the total of actual, projected and
2 forecast CGIF expenditures for 2020 through 2023 is \$6.1 million.

3
4 **Response:**

5 Confirmed.

6
7

8
9 13.4 Please explain how the total CGIF expenditures for 2020 through 2023 of \$6.1
10 million relates to the Approved Spending of Approved Spending of \$4.3 million
11 for Portfolios 1 to 4 shown in Table 10-7.

12
13 **Response:**

14 FEI clarifies the \$4.3 million shown in Table 10-7 includes Portfolios 1 to 4 only, while the \$6.1
15 million of gross additions shown in Table 10-6 includes Portfolios 5 and 6. As shown in the
16 response to BCOAPO IR1 11.2, approximately \$1.8 million of the 2023 Forecast is for Portfolios
17 5 and 6. This makes the total of all portfolios (i.e., Portfolios 1 to 6) \$6.1 million (\$4.3 million
18 plus \$1.8 million).

19
20

21
22 13.5 Please confirm, or otherwise explain, that CGIF Rider Recoveries are running
23 higher than Gross Additions (or Approved Spending).

24
25 **Response:**

26 Confirmed.

27
28

29
30 13.6 Does Table 10-6 indicate that for 2023 Forecast, CGIF Rider Recoveries at
31 \$5.158 million are roughly double Gross Additions at \$2.5 million? If so, why is
32 FEI not intending to make grants in 2023 that would approximately total the 2023
33 CGIF Rider revenues? Does FEI intend to increase the grants to revenue ratio of
34 the CGIF in subsequent years?

35

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1 **Response:**

2 Confirmed. However, please refer to the response to BCOAPO IR1 11.4 where FEI discusses
3 increasing levels of future expenditures for the CGIF.

4

5

6

7 13.7 Does FEI anticipate any change in the targeted research areas for the CGIF in
8 2023?

9

10 **Response:**

11 FEI is satisfied with the overall mix of projects in the current CGIF portfolios. Nevertheless, FEI
12 is working toward increasing the number of proposals it receives for BC-based carbon
13 sequestration and utilization projects.

14

15

16

17 13.8 Does FEI have difficulty identifying qualifying projects for CGIF funding? Are
18 there particular topic areas in which qualifying projects are scarce?

19

20 **Response:**

21 FEI is generally satisfied with the number and quality of proposals it has received during 2022.
22 This is partly a result of an increased focus on relevant BC-based projects.

23 Please also refer to the responses to BCSEA IR1 13.7 and BCOAPO IR1 11.4.

24

1 **14.0 Topic: FEI GHG Emissions**

2 **Reference: FEI Annual Review for 2022 Rates, Exhibit B-5, FEI Response to**
 3 **BCSEA IR 6.1, 6.2, 6.3**

4 14.1 Please provide an updated table showing FEI’s annual reported estimated GHG
 5 emissions from the year 2009 through 2021.

6
 7 **Response:**

8 Please refer to the following updated table with FEI’s annual reported estimated GHG emissions
 9 from 2009 through 2021.

10 **Table 1: Annual Reported Estimated GHG Emissions 2009-2021 (tCO2e)**

Year	GHG Emissions Reported to ECCC using IPCC 4 th Assessment (tCO2e)
2009	177,827
2010	171,059
2011	153,611
2012	150,647
2013	141,948
2014	140,507
2015	120,997
2016	126,612
2017	142,534
2018	123,509
2019	145,127
2020	121,452
2021	138,440

11
 12

13
 14 14.2 Please provide an update for 2021 and 2022 year to date on FEI’s activities to
 15 control and reduce its GHG emissions.

16
 17 **Response:**

18 FEI’s day-to-day operational activities are designed to ensure the integrity of the natural gas
 19 system, assisting in the control and reduction of GHG emissions to the atmosphere. Examples
 20 of these operational activities include:

- 21 • fugitive leak detection surveys and repairs at compressor stations and LNG plants;

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- 1 • maintenance-related activities such as pigging to monitor the integrity of the
2 transmission pipeline;
- 3 • residential meter set redesign;
- 4 • replacement of end of life assets;
- 5 • use of CNG and EV for fleet vehicles;
- 6 • application of double block and bleed devices, vacuum technology, or flaring to reduce
7 transmission pipeline blowdown for maintenance; and
- 8 • reduction in purge time for service line installations.

9 In addition, FEI conducted pilot projects / developed preliminary cost estimates in the 2021
10 calendar year to determine the feasibility and potential GHG savings with various programs.
11 Examples of these programs include:

- 12 • Vancouver Island Pipeline Cycling Project; and,
- 13 • Feasibility of Electrification at Fraser Gate Station.
- 14

15
16

17 Regarding FEI's response to evolving methane emission requirements, FEI stated in its
18 September 2021 response to BCSEA IR 6.3 in the FEI Annual Review for 2022 Rates:

19 "FEI is currently developing proposals and generating cost estimates for meeting
20 and/or exceeding BC OGC seal gas requirements at compressor stations. These
21 cost estimates vary from location to location; however, class 5 estimates are
22 approximately \$3 million per site.

23 Other measures under consideration include the application of satellite
24 technology to measure fugitive methane emissions on assets along the
25 distribution pipeline system. A trial of this technology in two regions has an
26 estimated O&M cost of approximately \$100 thousand."

27 14.3 Please provide an update on the methane emissions requirements and FEI's
28 associated additional measures and O&M and capital compliance costs.

29

30 **Response:**

31 There are no additional methane emissions compliance requirements since FEI's response to
32 BCSEA IR1 6.3 in the FEI Annual Review for 2022 Delivery Rates proceeding.

33 FEI has identified approximately \$5.4 million in capital and O&M related expenditures (including
34 seal gas recapture systems at two of FEI's compressor stations) to reduce methane related
35 emissions by approximately 7,000 tCO₂e/year. Funding for these projects will be allotted from

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1 the annual O&M funding envelope (for O&M expenditures) and capital-related funding has been
2 included in FEI's updated 2023 sustainment capital forecast.

3

4

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1 **15.0 Topic: Okanagan Capacity Upgrade Project**

2 **Reference: Exhibit B-2**

3 FEI filed an updated application for a CPCN for the Okanagan Capacity Upgrade Project
4 in January 2021. Following three rounds of information requests, FEI indicated an
5 intention to file an evidentiary update identifying temporary capacity mitigation measures
6 that will need to be enacted for the winter of 2022/23. In February 2022, FEI supported a
7 request for an adjournment by the intervener Penticton Indian Band due to ongoing
8 productive engagement between FEI and PIB. Later in February 2022, the Panel issued
9 Order G-48-22 adjourning the proceeding. On page 2 of the Reasons for Decision, the
10 Panel explained:

11 “In recent months, there have been numerous delays and extension requests to
12 the regulatory process to facilitate further engagement between FEI and PIB.
13 Further, there is a lack of clarity with respect to the precise timing and content of
14 FEI’s proposed evidentiary update, which may depend on the outcome of further
15 engagement with PIB. Therefore, given the multiple extensions that have already
16 occurred and further uncertainty regarding the next steps, the Panel determines it
17 appropriate to adjourn the proceeding until FEI has filed its proposed evidentiary
18 update. Accordingly, the Panel requests that FEI include a proposal for a further
19 regulatory timetable in its evidentiary update, including but not limited to
20 regulatory steps to finalize the scheduling of the Oral Hearing and comments on
21 the CEC’s request to access the Oral Hearing.”

22 15.1 For information purposes, what is the status of FEI’s Okanagan Capacity
23 Upgrade Project? What is the status of FEI’s ability to meet the peak demand of
24 customers in the affected area in the winter of 2022/2023?

25
26 **Response:**

27 FEI is continuing to engage with PIB regarding the Okanagan Capacity Upgrade (OCU) Project.

28 With respect to FEI’s ability to meet the peak demand of customers in the Okanagan areas for
29 the winter of 2022/2023, FEI is currently taking mitigating actions to adjust the station setpoint at
30 the Polson Gate Station in Vernon and the Kelowna #1 Gate Station in Kelowna. This will
31 temporarily shift, to a certain extent, a portion of the demand in the West Kelowna / Peachland
32 area for the winter period from the West Kelowna IP system (supplied by the Kelowna #1 Gate
33 Station) to the Summerland TP lateral. FEI has also installed a full-size bypass at the Polson
34 Gate station to be used if required under peak day conditions. By enacting these mitigating
35 actions FEI will be able to moderate the expected low pressure conditions to meet the peak
36 demand requirement in the affected areas of the Okanagan for the coming winter. However, as
37 discussed in the OCU Application, the OCU Project is necessary for upcoming growth in the
38 Okanagan areas.

39