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May 9, 2019

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

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

Dear Mr. Wruck:

Re: FortisBC Energy Inc. and FortisBC Inc. (collectively FortisBC)

Application for Approval of a Multi-Year Rate Plan for 2020 through 2024 (Application)

Errata dated May 9, 2019

On March 11, 2019, FortisBC filed the above noted Application. FortisBC has identified a small number of errors in the Application that require corrections. The following outlines the corrections made as part of this Errata.

| Description | Revised Pages |
|--|------------------------------|
| Application, Section C3 Capital Forecast | Pages C-64, C-65, C-75, C-84 |
| Application, Section D6 Capitalized Overhead Study | Page D-57 |

These corrections do not result in any impacts to the results or recommendations contained in the Application.

FortisBC has attached the blacklined version of the affected pages.

May 9, 2019 British Columbia Utilities Commission FortisBC 2020-2024 MRP Application – Errata dated May 9, 2019 Page 2



If you require further information or have any questions regarding this submission, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC. FORTISBC INC.

Original signed:

Doug Slater

Attachments

cc (email only): Registered Parties

- As a result of all of these factors, FEI's cumulative Sustainment and Other capital expenditures
 exceeded the formula amount by 15.9 percent over the PBR term. The contributing factors are
 discussed further in Appendix B8-1 FEI Capital Directives.
 - Table C3-5 below summarizes the 2020-2024 forecast expenditures for Sustainment and Other capital. Additional details of the forecast Sustainment and Other capital expenditures are provided in the following sections, under Section C3.3.2.1 FEI Sustainment Capital and Section C3.3.2.2 FEI Other Capital.

Table C3-5: FEI Sustainment and Other Capital Expenditures 2020-2024 (\$000s)

| | | | • | | | | |
|------------------------|-----------------------|---------|----------------|-----------------|-----------------|-----------------|--|
| | Average 2017-2019P | 2020 | 2021 | 2022 | 2023 | 2024 | |
| Sustainment Capital | 110,811 | 111,530 | <u>112,944</u> | <u>117,106</u> | <u> 119,663</u> | <u> 124,533</u> | |
| Other Capital | 42,970 | 49,770 | 49,916 | 46,474 | 46,403 | 45,351 | |
| Total Capital | 153,781 | 161,300 | <u>162,860</u> | <u> 163,580</u> | <u>166,066</u> | <u>169,884</u> | |

FortisBC has endeavored to maintain Sustainment and Other capital spending increases at a level less than inflation over the course of the 2020-2024 term. Due to the timing and size of certain capital projects, fluctuations in capital spend from year to year are at times greater than inflation. However, the cumulative capital expenditure forecast from 2020-2024 represents less than annual inflationary increases over that term.

3.3.2.1 FEI Sustainment Capital

The expenditures within Sustainment capital include gas system improvements to the transmission and distribution system in order to meet forecast load and to ensure the safety, reliability and integrity of the system. Sustainment capital includes expenditures for meter recall programs, replacements and upgrades to the distribution and transmission systems, and expenditures for mains and service renewals and alterations.

The actual and projected Sustainment capital expenditures from 2014-2019 are summarized in Table C3-6 below.

Table C3-6: FEI Sustainment Capital Expenditures 2014-2019 (\$000s)

| | 2014 Actual | 2015 Actual | 2016 Actual | 2017 Actual | 2018 Actual | 2019 YEF |
|---|----------------|----------------|----------------|----------------|----------------|-------------|
| Customer Measurement | 24,375 | 28,516 | 30,140 | 31,485 | 33,271 | 30,837 |
| Transmission System Reliability & Integrity | 22,043 | 30,409 | 31,738 | 37,596 | 39,095 | 42,301 |
| Distribution System Reliability | 13,634 | 18,346 | 14,213 | 18,232 | 17,686 | 13,088 |
| Distribution System Integrity | 29,635 | 15,676 | 17,378 | 20,722 | 25,158 | 22,960 |
| Sustainment CIAC | (1,882) | (3,530) | (3,799) | (3,844) | (4,077) | (4,118) |
| Sustainment Capital – Total | 87,806 | 89,417 | 89,669 | 104,192 | 111,133 | 105,069 |

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Table C3-7 summarizes the Sustainment and Other capital expenditures required over the 2020-2024 term.

Table C3-7: FEI Sustainment Capital Expenditures 2020-2024 (\$000s)

| 2 2023 2024 |
|------------------------------|
| .2 2020 2024 |
| 81 32,461 32,979 |
| 21 45,792 47,355 |
| <u> 12,486</u> <u>22,032</u> |
| 80 28,924 22,168 |
| 02) (3,902) (3,902) |
| <u>205 115,761 120,631</u> |
| ֡ |

The forecast capital expenditures for each of the categories shown in the table above is described in more detail in the following sections, along with a description of larger projects (>\$2 million) that are forecast within the 2020-2024 term. Cost estimates for projects that are planned for execution 2 or more years in the future are generally at a Class 4 (-30 percent to +50 percent) or Class 5 (-50 percent to +100 percent) level. Depending on the size and complexity of the project, a Class 3 estimate will be developed one to two years prior to execution.

3.3.2.1.1 CUSTOMER MEASUREMENT

13 Customer Measurement includes expenditures related to meter exchanges and meter set 14 upgrades. Customer Measurement capital is further broken down into the four broad categories 15 shown in the table below.

Details of the Customer Measurement capital expenditures from Table C3-7 above are summarized in Table C3-8 below. Please refer to Appendix B8-2 for a description of the capital that is included in each of the categories shown in the table.

Table C3-8: FEI Customer Measurement Capital Expenditures 2020-2024 (\$000s)

| | Average 2017-2019P | 2020 | 2021 | 2022 | 2023 | 2024 |
|--|--------------------|--------|--------|--------|--------|--------|
| Meter Materials | 21,576 | 21,048 | 21,469 | 21,898 | 22,336 | 22,783 |
| Residential Meter Alteration & Exchange | 7,280 | 7,085 | 7,226 | 7,371 | 7,518 | 7,669 |
| Small Commercial / Industrial Meter Alteration & Exchange | 963 | 955 | 1,027 | 1,004 | 1,013 | 1,034 |
| Large Commercial / Industrial Meter Alteration & Exchange | 2,045 | 1,472 | 1,606 | 1,508 | 1,593 | 1,494 |
| Customer Measurement - Total | 31,865 | 30,559 | 31,328 | 31,781 | 32,461 | 32,979 |

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- separate requisitioning for components based on usage of the shared asset by the respective
 organizations.
- Details of the IS capital expenditures from Table C3-17 above are summarized in Table C3-19 below. Please refer to Appendix B8-2 for a description of the capital that is included in each of the categories shown in the table.

Table C3-19: FEI IS Capital Expenditures 2020-2024 (\$000s)

| 14510 00 10. 1 2110 Outstan 2xponditures 2020 2021 (\$60000) | | | | | | | | | | |
|--|-----------------------|----------------|--------|--------|--------|--------|--|--|--|--|
| IS | Average 2017-2019P | 2020 | 2021 | 2022 | 2023 | 2024 | | | | |
| Information Systems Sustainment | 12,268 | <u>√11,758</u> | 11,811 | 11,676 | 10,750 | 10,855 | | | | |
| Application Enhancements | 1,999 | 2,850 | 2,850 | 2,850 | 2,850 | 2,850 | | | | |
| Cybersecurity | 1,217 | 2,900 | 3,100 | 3,100 | 3,100 | 3,100 | | | | |
| Business Technology Applications | 8,467 | 10,800 | 10,800 | 10,800 | 10,800 | 10,800 | | | | |
| Total | 23,952 | 28,308 | 28,561 | 28,426 | 27,500 | 27,605 | | | | |

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The annual average IS spending for all of the categories shown in the table was almost \$24 million for 2017 to 2019. Overall, IS expenditures are growing approximately 3 percent per year relative to the 2017-2019 average expenditure. There has been a continued increase in spending from 2017 to 2019 in all categories except Sustainment. Each of the four categories is discussed below.

13 IS Sustainment:

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- 14 Infrastructure sustainment is the non-discretionary capital funding required to replace or 15 upgrade outdated or end-of-life hardware and server software in the data centres. This includes 16 servers, operating systems, local area network (LAN) and wide area network (WAN) equipment, 17 etc.
- End-user device sustainment is the capital funding required to replace or upgrade end user equipment and software. This includes PCs, operating systems, desktop applications, printing equipment, all mobile devices, etc.
- Application sustainment is the capital funding required to sustain existing software applications.
 This includes required upgrades to maintain support, reliability and performance of existing applications not including data centre software.

24 Application Enhancements:

Enhancement is the capital funding to modify the functionality or enable capabilities of existing applications to meet annual business requirements with priority on safety and customer service. This includes interfaces, enabling new functionality, enhanced reporting, etc. The increased implementation of business tools over the last 5 years has increased the amount of applications requiring enhancements.

30 Cyber security:

Increased sophistication in cyber threats has forced hardware and software companies to release updated code and operating systems to counteract these threats. The frequency of



• **DG Bell Feeder 4 Addition:** The addition of a fourth feeder is required to meet the significant residential customer growth occurring in the upper Mission area of Kelowna. The expected in-service date of this \$2.0 million project is 2020.

3.4.1.1.3 <u>NEW CONNECTS</u>

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The New Connects category includes the installation of new electric services consisting of additions to FBC overhead and underground distribution facilities. These capital expenditures allow FBC to meet its obligation to provide reliable service to customers in its service area. This category also funds any costs associated with upgrading FBC facilities to provide service for an extension or drop service. Consistent with past practice, the forecast expenditures for New Connects are based on historical expenditures adjusted for anomalous years and inflation.

11 3.4.1.2 FBC Sustainment Capital

The expenditures within Sustainment capital include system improvements to the transmission and distribution system in order to maintain existing equipment to meet forecast load and for the safety, reliability and quality of the system. FBC also identifies and addresses hazards and risks that require immediate attention through specific projects.

Sustainment capital is further classified into five categories of expenditure, each of which is described in more detail in the following sections, along with a description of projects forecast to exceed \$1 million that are expected to proceed within the 2020-2024 term. Table C3-25 below summarizes the average 2017-2019 actual and projected expenditures and forecast 2020-2024 expenditures for these categories of sustainment capital.

Table C3-25: FBC Sustainment Capital Expenditures 2020-2024 (\$000s)

| | Average 117-2019P | 2020 | 2021 | 2022 | 2023 | 2024 |
|--------------------------|----------------------|--------------|--------------|-----------|--------------|--------------|
| Generation | \$ 3,475 | \$ 6,697 | \$ 6,766 | \$ 6,309 | \$ 7,008 | \$ 6,514 |
| Transmission Sustainment | 4,778 | 8,353 | 6,387 | 5,698 | 7,951 | 7,591 |
| Stations Sustainment | 4,915 | 13,538 | 13,624 | 5,279 | 3,793 | 15,971 |
| Distribution Sustainment | 14,719 | 20,337 | 20,338 | 19,542 | 19,990 | 20,353 |
| Telecommunications | 2,516 | 1,818 | 2,983 | 6,280 | 5,915 | 3,472 |
| Total | \$ 30,403 | \$ 50,743 | \$ 50,098 | \$ 43,110 | \$ 44,657 | \$ 53,901 |

Each of these five categories is described further below.

3.4.1.2.1 GENERATION CAPITAL

FBC operates and maintains four generating facilities with a total of 15 units. FBC regularly monitors its infrastructure to ensure it meets industry standards and guidelines, complies with regulations, and operates safely to minimize risk to the public and employees.

28 FBC's Generation capital is grouped into four capital programs.

29 Table C3-26 below provides the 2017-2019 average and the 2020-2024 forecast expenditures

for FBC's four Generation capital programs.

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Table D6-1: FEI Capital, O&M and Capitalized Overhead 2009-2020 (\$000s)

| | | | | - | | - | | | • | - | | |
|------------------------|-------------------|-------------------|-----------------------------|-------------------|-------------------|-------------------|--------------------------------|-------------------|-------------------|-------------------|--------------------------------|-----------|
| | Order G-33-07 | | Order G-140-09/ G-141-09 | | Order G-44-12 | | Order G-86-15 & G-106-15 | Order G-193-15 | Order G-182-16 | Order G-196-17 | Order G-237-18 & G-10-19 | |
| | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 |
| | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Approved forecast | Projected |
| Capex (excl. OH) | 113,031 | 121,930 | 129,857 | 157,920 | 156,089 | 164,250 | 156,440 | 162,748 | 160,711 | 170,406 | 189,281 | 228,133 |
| Gross O&M | 206,502 | 237,695 | 247,382 | 263,087 | 272,187 | 264,869 | 270,475 | 271,620 | 269,275 | 275,631 | 281,148 | 291,761 |
| Capitalized OH | (33,040) | (33,277) | (34,622) | (36,832) | (38,106) | (32,501) | (32,457) | (32,594) | (32,313) | (33,076) | (33,738) | (48,252) |
| Net O&M | 173,462 | 204,418 | 212,760 | 226,255 | 234,081 | 232,368 | 238,018 | 239,026 | 236,962 | 242,555 | 247,410 | 243,509 |
| Capitalized OH Rate | 16% | 14% | 14% | 14% | 14% | 12% | 12% | 12% | 12% | 12% | 12% | 16% |
| Capitalization Rate | 29% | 27% | 27% | 23% | 24% | 20% | 21% | 20% | 20% | 19% | 18% | 21% |

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