

**Doug Slater** 

Director, 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: (778) 578-3874 Cell: (778) 214-3842 Fax: (604) 576-7074

Email: doug.slater@fortisbc.com

www.fortisbc.com

September 4, 2019

British Columbia Public Interest Advocacy Centre Suite 803 470 Granville Street Vancouver, B.C. V6C 1V5

Attention: Ms. Leigha Worth, Executive Director

Dear Ms. Worth:

Re: FortisBC Energy Inc. (FEI)

**Project No. 1598988** 

Application for a Certificate of Public Convenience and Necessity for the Inland Gas Upgrade Project (the Application)

Response to the British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre *et al.* (BCOAPO) Information Request (IR) No. 3

On December 17, 2018, FEI filed the Application referenced above. In accordance with British Columbia Utilities Commission Order G-153-19 setting out a further Regulatory Timetable for the review of the Application, FEI respectfully submits the attached response to BCOAPO IR No. 3.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

**Doug Slater** 

Attachments

cc (email only): Commission Secretary

Registered Parties



### FortisBC Energy Inc. (FEI or the Company)

Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)

Submission Date: September 4, 2019

Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre *et al.* (BCOAPO) Information Request (IR) No. 3

Page 1

### 1.0 Reference: General and Exhibit B-12, BCOAPO IR 2.4.1

1.1 When did FEI <u>initially</u> determine or become aware that there was a potential rupture problem on the subject pipelines due to undetectable external corrosion?

3 4 5

6

7

8

9

10 11

12

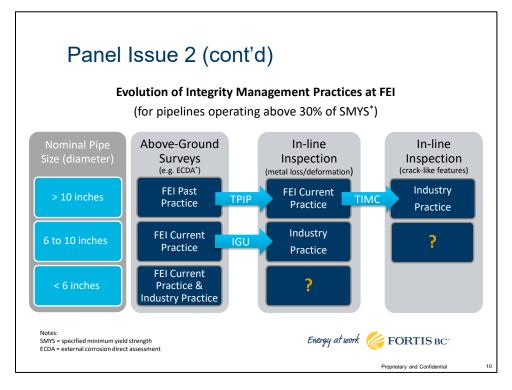
13

1

2

### Response:

During the workshop on July 10, 2019, FEI presented the following slide<sup>1</sup> which depicts the evolution of its integrity management practices over time, consistent with industry practice and supported by enhancements in technology. FEI explained in the workshop and in Section 3.4.4.2 of the Application, that the Transmission Pipeline Integrity Project (TPIP) was approved by the BCUC, and undertaken over a five-year period in the early 2000's, to retrofit its larger diameter pipelines in the Coastal Transmission System to be capable of inline inspection. Further, FEI explained that the TPIP project is essentially the same project as the IGU, except that the TPIP applied to FEI's larger diameter pipelines.



14

15

16 17 As technology and industry practice evolved since that time, inline inspection became an integrity management alternative for FEI's smaller diameter transmission pressure lines in order to mitigate the hazards caused by external corrosion. As such, the need for a project to mitigate

<sup>&</sup>lt;sup>1</sup> Exhibit B-16, Slide 10



FortisBC Energy Inc. (FEI or the Company)  Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)	Submission Date: September 4, 2019
Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre et al.  (BCOAPO) Information Request (IR) No. 3	Page 2

the potential for rupture failure due to corrosion was identified in August 2015 as discussed in the response to CEC IR 1.3.6. Preliminary work undertaken at that time focused on a review of industry practice and the state of in-line inspection tool evolution, as well as hydraulic analyses to determine whether flow rates in the laterals could be managed to achieve required in-line inspection tool travel speeds.

1.2 Please provide the date on which FEI began work on the subject application.

# Response:

Please refer to the response to BCOAPO IR 3.1.1. FEI began incurring costs for the IGU Project starting in July 2017 when the project team formally started work on project scoping and estimating.



FortisBC Energy Inc. (FEI or the Company)  Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)	Submission Date: September 4, 2019
Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre et al.  (BCOAPO) Information Request (IR) No. 3	Page 3

## 2.0 Reference: Exhibit B-12, BCOAPO IR 2.6.1

2.1 If available, please provide an estimate of the cost of providing a QRA in support of the instant application or provide direction as to where such an estimate can be found in the evidence.

4 5 6

1

2

3

# Response:

- Please refer to the response to BCUC IR 2.36.4 for FEI's order of magnitude estimate for a QRA covering the 29 Transmission Laterals.
- 9 Neither the results from the first iteration QRA, nor a future iteration QRA specific to the 29
  10 Transmission Laterals, is required to support the Application. FEI has already identified the risk
  11 of rupture due to undetectable external corrosion as a threat to the 29 Transmission Laterals. In
  12 accordance with CSA Z662 and BC OGAA requirements, FEI is obligated to address this threat
  13 in a timely way. Quantitative risk assessment results cannot be used to relieve an operator from
  14 its legal and regulatory obligations.



# FortisBC Energy Inc. (FEI or the Company) Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application) Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre et al. (BCOAPO) Information Request (IR) No. 3

3.0 Reference: Exhibit B-10, BCUC IR 2.36.1

- 2 The following is excerpted from the referenced response:
- JANA's technical opinion is that, given the short project timeline of five years for the IGU project, a QRA would not materially impact the timeline or scheduling of these activities. [Emphasis added.]
  - 3.1 In JANA's opinion, had the work been scheduled over a longer period, would a QRA have been of use to the BCUC and intervenors in assessing the instant application? If not, please clarify the relevance of "the short project timeline" that JANA conditions its response upon.

Response:

- 12 JANA Corporation provides the following response:
  - In JANA's opinion, no. The stated FEI need for conducting the IGU project is to meet the regulatory requirements of managing the identified corrosion threat. The need to address this threat and conduct the project would not be changed by a QRA. "The short project timeline" refers to the potential benefit of a QRA in assisting in the decision process for prioritization of the project sub-components. For a considerably longer timeframe project, e.g. 20 years, there could be benefit in a QRA for assessing prioritization of the project sub-components within the overall decision-making process.



15 16

17

terminology and/or definitions.

FortisBC Energy Inc. (FEI or the Company)  Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)	Submission Date: September 4, 2019
Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre et al. (BCOAPO) Information Request (IR) No. 3	Page 5

1	4.0	Refere	ence:	Transcript V1 Workshop/Procedural Conference,	page 10
2		The referenced page states:			
3 4			•	's take a look at the risk. Of course, risk is equal to event occurring times the consequences of that event in	
5 6 7 8 9	Respo	4.1	conse	FEI confirm that "the probability of an undesirable ever equences of that event if it occurs" is the expected los trather than the "risk"?	•
0  1		onfirmed	d. For e	example, CSA Z662-19, Annex O, Clause O.2.2.2.1, o	ontains the following
2			• •	ch follows from the basic definition of risk as a prability and failure consequences. [emphasis added]	oduct of the
4	This c	lefinition	n is cor	onsistent with FEI's understanding and use of the te	rm. and its commor

application in the pipeline industry. It is possible that other industries may adopt alternate



### FortisBC Energy Inc. (FEI or the Company)

Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)

Submission Date: September 4, 2019

Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre *et al.* (BCOAPO) Information Request (IR) No. 3

Page 6

# 1 5.0 Reference: Transcript V1 Workshop/Procedural Conference, page 14

2 The referenced page states:

Our professional engineers consider factors such as equipment condition data, industry practice, current codes and regulations, and many more to determine both the capital and maintenance work that is needed for our system. That is still a valid process, and the BC OGC has not indicated otherwise.

Has there ever been an occasion when the BC OGC has indicated to FEI that FEI's processes or practices were not valid? If so, please elaborate.

8 9 10

11

12

13 14

15

16

17

18

19

20

3

4

5

6

7

### Response:

- The BC OGC's mission is to "provide British Columbia with regulatory excellence in responsible energy resource development by: Protecting public safety, Safeguarding the environment, and Respecting those who are affected." Consistent with their mandate to protect the public and the environment, the BC OGC regularly audits and makes recommendations regarding FEI's processes and practices with respect to the integrity management of FEI's gas assets. At no time has the BC OGC indicated that FEI's processes and practices for determining capital and maintenance work are invalid.
- Please refer to the response to BCUC IR 3.67.1 for written confirmation that the BC OGC is supportive of FEI taking action to address its known integrity concerns and to ensure that it meets its requirements as a permit holder under the *Oil and Gas Activities Act*.

21



FortisBC Energy Inc. (FEI or the Company)  Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)	Submission Date: September 4, 2019
Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre et al. (BCOAPO) Information Request (IR) No. 3	Page 7

1	6.0	Reference	e: Transcript V1 Workshop/Procedural Conference, page 27
2		The refere	nced page states:
3 4 5		occurring	RNIKHOWSKY: Okay, so we've seen numerous examples of CP shielding on many of our pipelines, and that's also why we say we have reduced in our ability to use ECDA to detect external corrosion.
6 7 8			nen FEI has detected CP shielding in the past, what corrective measures has

# Response:

When FEI detects CP shielding during inspection, the full length of inspected pipe is re-coated to FEI's current standards. If the corrosion is determined to require structural repair beyond recoating, this is also undertaken.



# FortisBC Energy Inc. (FEI or the Company)

Application for a Certificate of Public Convenience and Necessity (CPCN) for the Inland Gas Upgrade (IGU) Project (the Application)

Submission Date: September 4, 2019

Response to British Columbia Public Interest Advocacy Centre representing the British Columbia Old Age Pensioners' Organization, Disability Alliance BC, Council of Senior Citizens' Organizations of BC, and the Tenant Resource and Advisory Centre *et al.* (BCOAPO) Information Request (IR) No. 3

Page 8

1	7.0	Reference: Transcript V1 Workshop/Procedural Conference, pages 40-41
2		The referenced pages state:
3 4 5		THE CHAIRPERSON: And were you asked to opine on whether or not FEI has done a qualitative assessment of the need for the project on the 29 laterals or was that out of the scope of your retainer?
6 7		MR. OLIPHANT: We were not asked to specifically assess what qualitative assessmen they had done.
8		THE CHAIRPERSON: Thank you.
9 10 11		MR. CHERNIKHOWSKY: Just to further clarify that though, JANA was provided with all the information relevant in the application, so they were certainly aware of the drivers of justification that we had put forth to the panel.
12 13		THE CHAIRPERSON: But they were not asked to opine on that in terms of sufficiency of the adequacy of that assessment, correct?
14 15 16		MR. OLIPHANT: We were not specifically asked to assess on that basis, but as a professional engineering firm if we had seen any issues we would have advised Fortis on that.
17 18 19 20		7.1 Please provide the Terms of Reference under which FEI retained JANA in respect of and is applicable to the instant application. Alternatively, please provide direction as to where the requested information can be found in the evidence filed in this proceeding.

21 22

### Response:

FEI does not have a terms of reference for the retainer of JANA Corporation's services related to the Application. JANA Corporation has been retained under a general FortisBC Purchase Order for integrity/risk engineering consulting services on an as and when required basis.