

Diane Roy Director, Regulatory Affairs FortisBC Energy 16705 Fraser Highway Surrey, B.C. V4N 0E8 Tel: (604) 576-7349 Cell: (604) 908-2790 Fax: (604) 576-7074 Email: <u>diane.roy@fortisbc.com</u> www.fortisbc.com

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

August 23, 2013

<u>Via Email</u> Original via Mail

British Columbia Public Interest Advocacy Centre Suite 209 – 1090 West Pender Street Vancouver, B.C. V6E 2N7

Attention: Ms. Tannis Braithwaite, Acting Executive Director

Dear Ms. Braithwaite:

Re: FortisBC Energy Inc. (FEI)

Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018

Response to the British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Pensioners' and Seniors' Organization *et al* (BCPSO) Information Request (IR) No. 1

On June 10, 2013, FEI filed the Application as referenced above. In accordance with Commission Order G-99-13 setting out the Preliminary Regulatory Timetable for the review of the Application, FEI respectfully submits the attached response to BCPSO IR No. 1.

If further information is required, please contact the undersigned.

Sincerely,

FORTISBC ENERGY INC.

Original signed:

Diane Roy

Attachments

cc: Commission Secretary Registered Parties (e-mail only)



1 1.0 Reference: Exhibit B-1, page 40, Table B5-1 and page 42 (lines 3-10)

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Preamble: Exhibit B-1, page 42:

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"The Alberta Utilities Commission (AUC) PBR initiative as well as the Ontario Energy Board (OEB) renewed regulatory framework for power distributors, which were applicable to a number of utilities, were resolved by hearing."

- 7 1.1 Please clarify the nature of the Regulatory Proceeding associated with the OEB
 8 4th Generation IR (Electricity) plan (Exhibit B-1, page 42). Was there a formal
 9 "hearing" before a panel of the Board?
- 10

11 Response:

The regulatory proceeding for the development of the OEB's 4th Generation IR framework was an OEB coordinated consultative process that included extensive stakeholder consultations, roundtables, conferences and written comments to determine the specific mechanics of the renewed regulatory framework for electric distributors. A written hearing was used to determine cost award matters such as cost eligibility and claims in relation to consultation activities for all eligible participants.
A timeline showing the steps in this regulatory proceeding can be found in the following link:

19 <u>http://www.ontarioenergyboard.ca/OEB/Industry/Regulatory%20Proceedings/Policy%20Initiatives%20and</u>

20 <u>%20Consultations/Renewed%20Regulatory%20Framework</u>



1 2.0 **Reference:** Exhibit B-1-1, Appendix D1, pages 14 and 16 2 Preamble: Exhibit B-1-1, Appendix D1, page 14: 3 "The values for the productivity factor and stretch factor are not yet 4 determined although a study has been filed and a decision for outstanding issues is due for mid-2013." 5 Exhibit B-1-1, Appendix D1, page 16: 6 7 "the OEB will engage stakeholders in further consultation on 8 establishment of an "efficiency carry-over mechanism" in due course." 9 2.1 Please provide a copy of the study referenced in Exhibit B-1-1, Appendix D1, 10 page 14 (last paragraph/last sentence). 11 12 Response: 13 The mentioned study can be found in the OEB's website under the following link: 14 http://www.ontarioenergyboard.ca/OEB/ Documents/EB-2010-0379/EB-2010-15 0379_PEG_Report_20130503.pdf 16 Please note that this report was later revised slightly. The link below includes the red-lined 17 version of the revised report: 18 http://www.ontarioenergyboard.ca/OEB/_Documents/EB-2010-19 0379/PEG Report to OEB 4Gen %20IR redline 20130531.pdf 20 21 22 2.2 23 Apart from the "efficiency carry-over mechanism", were there any other PBR-24 related regulatory mechanisms that the OEB indicated it would be engaging 25 stakeholders on in due course (Appendix D1, page 16). 26 27 **Response:** Page 61 of the OEB's "Renewed Regulatory Framework for Electricity Distributors: A 28 29 Performance-Based Approach" report states: 30 "Additional regulatory mechanisms may be necessary to achieve the objectives of the 31 renewed regulatory framework. The Board will engage stakeholders in further 32 consultation on the following in due course:

33 The establishment of an "efficiency carry-over" mechanism;



- 1 Development of incentives to;
 - reward superior performance;
- 3 encourage innovation;
- 4 encourage asset optimization; and
- 5 Potential consequences for inferior performance."

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In addition, the determination of X-factor and stretch factor values as well as the compositeinflator was planned for mid-2013.



1	3.0	Reference	ce: Exhibit B-1, Appendix D2, pages 1-2 and 10
2			Exhibit B-1, Appendix D9-3, pages 59-60
3		Preambl	e: Appendix D2, page 1:
4 5			"TFP is simply a measure of how efficiently a firm converts total inputs into total outputs."
6			Appendix D2, page 2:
7 8 9			"The analysis of TFP measures how efficiently the firm's output changes as the inputs are changed. TFP is positive when output changes faster than input and is negative when inputs change faster than output."
10			Appendix D2, page 2:
11 12			"A negative TFP means that costs are rising faster than inflation and a positive TFP means cost are changing slower than inflation."
13			Appendix D2, page 10:
14 15 16			"For each of the measures, input and output, the annual change is calculated and the difference between the changes represents the TFP for each particular output measure.
17			Appendix D9-3, page 59:
18 19 20			"In its report, NERA explained that productivity growth for a particular firm, by definition, is the difference between the growth rates of a firm's physical outputs and physical inputs."
21			Appendix D9-3, page 60:
22 23 24			"Accordingly, the Commission agrees with NERA that, in these circumstances, the purpose of the TFP study is to estimate the long term productivity growth of the industry in question."
25 26 27 28		3.1 D ra w	oes FEI agree that TFP growth represents the difference between the growth ates of a firm's (or industry's) physical outputs and its physical inputs? If not, hat does TFP growth represent?
29	<u>Resp</u>	onse:	

B&V provides the following response. 30



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1 2 3 4	TFP in its most formal economic definition measures the growth in output not accounted for by the growth in inputs. In the context of the TFP analysis for estimating the X-Factor, the measure is the difference between the rate of growth in outputs minus the rate of growth in inputs as we have defined it in the TFP Report in Appendix D-2.		
5 6			
7			
8	3.2	Does FEI also agree that TFP growth can be represented as:	
9 10		TFP Growth (%) = Physical Output Growth (%) – Physical Input Growth (%)	
11 12 13		If not, please provide a similar formulaic representation of what FEI considers TFP growth to represent.	
14	<u>Response:</u>		
15	Yes. Please	refer to the response to BCPSO IR 1.3.1.	
16 17			
18 19 20 21 22	3.3 <u>Response:</u>	Please reconcile the two statement referenced above from Appendix D2 (page 2) as each appears to provide a different definition of TFP.	
23	B&V provides	s the following response.	
24 25 26	Neither of the TFP as it rela BCPSO IR 1.	e two statements is a definition of TFP but rather an explanation of the impact of ates to the costs of providing utility service. Please also refer to the response to .3.4.	
27 28			
29 30 31 32	3.4	Please explain how "negative TFP means that costs are rising faster than inflation and positive TFP means that cost are rising slower than inflation"?	



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1 Response:

- 2 B&V provides the following response.
- 3 These are just mathematical conclusions based on the logic of TFP. If we assume constant
- 4 input prices and the quantity of inputs rises then mathematically costs increase faster than the
- 5 rate of inflation because prices were assumed to be constant to illustrate this point. Likewise
- 6 the opposite is also true.



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1 4.0 Reference: Exhibit B-1, page 51

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4.1 Please provide the actual values used to create Figure B6-1 and the references supporting each value.

3 4

5 **Response:**

6 The table below includes the actual TFP values and their respective references used to create

7 Figure B6-1.

State/ Province	Utility	Sector	Term	Measured TFP	Reference
CA	PacifiCorp	Electric	2011-13	0.50%	Decision 10-09-010
СА	Sierra Pacific Power	Electric	2009-11	0.50%	Decision 09-10-041
CA	San Diego Gas and Electric (SDG&E)	Gas	2000-02	2000-1.08% 2001- 1.23% 2002- 1.38%	Decision 99-05-030
СА	SDG&E	Electric	1999-2002	2000-1.32% 2001- 1.47% 2002- 1.53%	Decision 99-05-030
MA	Berkshire Gas	Gas	2004-11	0%	Docket D.T.E. 01-56
MA	NSTAR	Electric	2006-12	0%	Docket D.T.E. 05-85
MA	Boston Gas	Gas	1997-2001	0.50%	Docket D.P.U. 96-50-C (Phase I)
ME	Bangor Gas	Gas	2000-12	0%	Docket 970795
ME	Central Maine Power	Electric	2009-2013	1.0%	Docket 2007-215
ME	Central Maine Power	Electric	2001-2007	2.0%-2.9%*	Docket 99-666
Ontario	All utilities	Electric	2010-2013	0.72	EB-2007-0673
Ontario	All utilities	Electric	2000-2003	1.25%	RP-1999-0034
Ontario	All utilities	Electric	2006-2009	1.00%	EB-2006-0089
Ontario	Union Gas	Gas	2001-2003	1.10%	RP-1999-0017
CA	SoCAL Gas	Gas	1997-2002	1.50%	Decision 96-09-092

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8 * Gradual increase over the 8 years term of the plan.

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10 Please refer to Attachment 4.1 for the working excel spreadsheet of this table as well as the

11 calculations that are used to construct the Figure B6-1.



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- 4.2 What difference (if any) is there between "approved TFP" (used in the title of the Figure) and "measured TFP" as used in the legend for the Figure? Are these the TFP (X-factor) values approved for use in PBR plans or the measured TFP values calculated as input into the determination of the X-Factor for various PBR plans?
- **Response:**

In the context of Figure B6-1 there is no difference between the approved and measured TFP values. These are the TFP values approved by the regulators either as the approved X-factor value (where TFP equals X-factor) or as a part of the approved X-factor value (in case the X-factor also includes an additional stretch factor).

- 184.3Please identify those US gas transmission/distribution utilities that are currently19operating under PBR plans and indicate the approved X-Factor for each. Note:20In those cases where there is an approved "stretch factor" as well as X-Factor,21please also report the Stretch Factor.
- 23 Response:

Based on the Commission's staff letter dated April 18, 2013 our survey for active PBR plans
was limited to Canadian distributors. Given the number of gas utilities in the U.S., FEI may not
be aware of all the active PBR plans in the US gas industry. Please refer to the response to
BCPSO IR 1.4.1 for a list of US utilities with active PBR plans between 2000 and 2012. Please
also refer to Attachment 4.3 for a copy of the April 18, 2013 letter.



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1 5.0 **Reference:** Exhibit B-1, page 48 (lines 23-24) and page 52 (lines 13-15)

5.1 Specifically what were the business conditions that FEI expected would "affect BC's natural gas utility industry during the PBR term" (page 48)?

5 Response:

6 In the context of the X-factor determination, the review of business conditions is specifically related to those conditions that affect FEI's output measures (customers and capacity) as 7 8 defined by the B&V TFP report in Appendix D-2 of the Application. Input business conditions are 9 expected to be reflected by the proposed I-Factor.

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13 5.2 What business conditions are expected to be the same during the period used to measure TFP (2007-2011) and during the term of the PBR plan (2014-2018), per 14 15 page 52? In particular, please address the extent to which the economic 16 conditions (e.g. GDP growth) are expected to be the same in the two periods.

18 Response:

19 The business conditions related to output measures, namely customers and capacity are 20 expected to be relatively the same in the two periods. For instance, the growth rate of customer 21 additions during the 2007-2011 period is similar to the forecast rate of customer additions during 22 the PBR period (with the expected growth rate during the PBR term slightly lower). Input 23 conditions are expected to be reflected by the proposed I-Factor.

24 FEI did not claim that the economic conditions such as GDP growth are expected to be the 25 same (but rather business conditions specific to BC's natural gas utility industry). B&V indicates that, since FEI's output measures are not related to volumetric indices (as opposed to AUC TFP 26 27 calculation), the macro economic conditions do not have the same material impact on FEI's 28 productivity as measured by capacity as the output.



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6.0 Reference: Exhibit B-1, page 49 (lines 7-9)

Exhibit B-1, page 47 (lines 14-16)

6.1 Does FEI consider its proposed inflation factor to be representative of input price escalation for the natural gas transmission/distribution industry or, in principle, should the X-Factor for the proposed plan also include an adjustment "for any difference between the inflation index used in the PBR index formula and the rate of inflation for the regulated sector" (page 49)?

9 Response:

10 B&V provides the following response.

11 The inflation factor or the I-Factor under PBR is an estimate of the expected price increases 12 associated with inputs for the LDC. That factor has both a general inflation component and a 13 labor inflation component designed to track the price increases expected by FEI. In general, the 14 I-Factor may be a general measure of inflation or a utility specific measure based on actual 15 utility input cost changes. Since a general index of inflation will not precisely match the actual 16 inflation for utility inputs some econometric studies develop an adjustment for the difference 17 between the general index of inflation and the actual inflation rates for the utilities in the TFP 18 study. In essence, this estimated difference is an attempt to develop an industry specific 19 measure of inflation defined as the sum of the general inflation and the calculated adjustment 20 factor. Under this method, the adjustment factor would be added to the X-Factor along with the 21 TFP estimate and if applicable a stretch factor. Since we are using the composite inflator that 22 tracks input price increases the adjustment is not required.

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- 266.2What was the average annual rate of growth in FEI's proposed inflation factor27(page 47) over the period 2007-2011? Please provide a supporting schedule28setting the calculation of the historical annual increases for this period.
- 29
- 30 Response:

31 The average annual rate of growth in FEI's proposed composite inflation factor over the period

32 2007-2011, using the same methodology that was applied to determine the composite inflation

33 factor for the proposed PBR from 2014-2018, is summarized in the table below:



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FEI Net O&M (Formula Based)	2006	2007	2008	2009	2010	2011
BC-AWE	2.90%	3.41%	2.56%	0.81%	2.80%	1.50%
BC-CPI	2.20%	2.00%	2.20%	2.00%	1.40%	2.30%
Labor	55%	55%	55%	55%	55%	55%
Non-Labour	45%	45%	45%	45%	45%	45%
Composite I-Factor	2.59%	2.78%	2.40%	1.34%	2.17%	1.86%



1 7.0 **Reference:** Exhibit B-1, page 52 (lines 21-27)

Exhibit B-1-1, Appendix D2, page 10

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7.1 Please provide documentation that clearly explains the "Kahn" methodology.

5 **Response:**

Please refer to the response to CEC IR 1.81.18 which includes the testimony of Alfred E. Kahn. 6

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10 7.2 Please clarify, if not done so in response to the previous question, whether the 11 "expenses" that were deducted from Operating Revenue in the Kahn 12 methodology were just O&M expenses and Gas costs or whether they also 13 included depreciation (page 52, lines 23-25).

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15 **Response:**

16 B&V provides the following response.

17 The Kahn method applied to oil pipelines so there was no gas costs included in the operating 18 expenses. The measure operating expenses includes both O&M and General expenses (See

19 FERC Form 6). Depreciation expense is recorded in General Expenses as account 540.

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- 23 7.3 Please indicate how the Kahn methodology was used in setting the price cap 24 index for the oil pipelines regulated by FERC. In doing so, please confirm 25 whether:
 - The Kahn methodology was used to establish the historical annual a) increase in costs (per unit of output) for the industry,
 - The historical differential between cost escalation for the industry and b) escalation in the Producer Price Index for Finished Goods (PPI-FG) was determined, and
- 31 C) The price cap formula was then based on the future escalation in the PPI-32 FG index less the differential.
- 33



1 2		If not, how was it used?	
3	<u>Response:</u>		
4	B&V provides	the following response.	
5 6	The Kahn M applicable to	lethod was used to determine the X-Factor in the formula for the price cap oil pipelines.	
7	ltems (a), (b)	and (c) are confirmed.	
8 9			
10 11 12 13	7.4	Did the price cap formula used by FERC for the oil pipeline industry include both an inflation factor and an X-factor?	
14	<u>Response:</u>		
15 16 17	Yes. The FERC price cap formula includes both an inflation factor (Producer price index for finished goods or PPI-FG) and an X-factor. For further information on the X factor please refer to the response to BCPSO IR 1.7.3.		
18 19			
20 21 22 23 24 25 26	7.5 <u>Response:</u>	Does FEI consider the input price increases it experienced during the 2007-2011 period to be similar to those experienced by the US gas utilities used in B&V's study over the same period? If not, were FEI's experienced input price increases higher or lower and why?	
27	There has be	een no study of the input price increases for FEI since FEI was not part of the	

There has been no study of the input price increases for FEI since FEI was not part of the sample. B&V explains that the differences between the escalation of prices would not inform the analysis of TFP since the PBR Plan uses local measures of inflation that would not necessarily apply to the US sample of gas LDCs. The essential element of the TFP Report is that the TFP measures productivity not absolute price changes.

	FORTIS BC ^{**}
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1	8.0	Refere	ence: Exhibit B-1-1, Appendix D2, Schedule 2
2 3 4		8.1	Did B&V review the reasonableness of the data before using it in the TFP analysis?
5	<u>Respo</u>	onse:	
6	Yes.		
7			
8			
9			
10 11		8.2	A number of utilities (e.g. Alabama Gas, Atlanta Gas Light and Baltimore Gas)
12			decreases could occur.
13			
14	Respo	onse:	
15	B&V p	rovides	the following response.
16 17 18 19	This c future any nu and so	ould oc loads a umber c o forth.	cur where the infrastructure replacement is determined on the basis of expected nd a pipe segment and a smaller size of pipe is adequate based on the impact of of external factors such as conservation, zoning changes, building code changes, For example, there are a number of cases where old manufacturing sites in urban

areas have been converted to condominiums with a substantial reduction in design day load requirements. This would result in smaller diameter pipe being able to serve the load and a reduced cost for customers.

8.3 Please provide Schedule 2 in a working Excel file. **Response:** Please refer to the response to CEC IR 1.81.1.



1	9.0 Refer	ence: Exhibit B-1-1, Appendix D2, Schedule 2
2 3 4	9.1	Please confirm whether the values reported in column H include O&M costs and Gas Commodity costs but not Depreciation expense.
5	Response:	
6	B&V provides	s the following response.
7	Column H ind	cludes all expenses including depreciation and gas cost.
8 9		
10 11 12 13 14 15	9.2	Please confirm that column Z is a measure of the change in total costs, including the impact of both inflation (i.e. increases in the price of inputs) and changes in the quantity of inputs used. If not, please explain why not and what it does provide a measure of.
16	Response:	
17	B&V provides	s the following response.
18	The value in	column Z includes the items in question as well as changes in the quality of inputs.
19 20		
21 22 23 24 25 26 27	9.3 Response:	Please confirm that Columns AD, AF and AG represent the difference between the change in physical output (measured various ways) and the change in costs (including the impact of both changes in physical inputs and change in the cost of inputs). If not, please explain why not and what the columns do represent.
28	B&V provides	s the following response.
29 30	Please refer between com	to the response to BCPSO IR 1.9.2. These columns represent the differences posite measures of outputs and inputs.

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FORTIS BC

1 2 3 4 5	9.4	Please explain how/why the values calculated in Columns AD, AF and AG are consistent with the definition of TFP as used in the PBR formulation set out at Exhibit B-1, page 32.
6	<u>Response:</u>	
7	Please refer to	o the response to BCPSO IR 1.9.3.
8 9		
10 11 12 13 14	9.5	Wouldn't incorporating a TFP factor based on the results from Columns AD, AF or AG into a PBR formula that also included a inflation factor result in double counting the impact of inflation? If not, why not?
15	Response:	
16	B&V provides	the following response.
17 18	No. The mea include a mea	sures are an ex-post composite measure of inputs and outputs and as such do not as ure of inflation.



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is used. In the response, please provide referenced to actual decisions and

10.0 Reference: Exhibit B-1, Page 32, lines 6-9 Preamble: In lines 6-9 of page 32, FEI states: "PBR plans (both price cap and revenue cap) are typically further categorized into two subgroups based on their rate base assessment methodology and the role of (I–X) mechanism in forecasting their costs. These are termed the "building-block" approach and the "total expenditure" approach." The BCPSO requires an understanding of how the proposed PBR model is used in other jurisdictions. 10.1 Please provide a list of other jurisdictions where such a building block approach

13

14 **Response:**

15 Extensive work would be required to determine which plans in other jurisdictions fit the building 16 block approach, since each would have to be reviewed in detail to make this assessment. 17 However FEI is aware of the following. FEI's previous PBR plans which were approved by the 18 Commission are based on a building-block approach, meaning that the capital and operational expenditures were treated in two different blocks. The OEB's 4th Generation IR includes an 19 option called "Custom incentive rate-setting" under which customized PBR plans such as the 20 21 building-block approach are allowed. Most recently Enbridge Gas applied this option to its 22 current PBR application and proposed a building-block approach.

dockets where the concept was discussed and approved.

The 2009 report commissioned by the European Commission and prepared by KEMA consultants indicates that in the case of European natural gas transmission operators the majority of regulators used the various forms of building-block approach (Page 44, Table 6)¹. Both Australia and New Zealand use the building block approach for both gas and electric utilities.

¹<u>http://ec.europa.eu/energy/gas_electricity/studies/doc/gas/2009_12_gas_transmission_and_balancing_annex_fact_s_heets.pdf</u>



1 **11.0** Reference: Exhibit B-1, PBR Principles, Section B-6.1

- Preamble: In Section B-6.1 of its Application, FEI discusses five principles of PBR.
 The BCPSO requires information to understand the intent and purpose of the FEI principles.
 - 11.1 Please confirm that one of the purposes of a PBR is to break the direct link between revenues and costs. If not confirmed, please fully explain.

8 **Response:**

9 More precisely, the purpose of PBR is to break the link between prices and costs. The level of 10 revenue is another matter separate and apart from the PBR Plan. As has been noted the PBR 11 Plan must still provide a reasonable opportunity for the utility to earn the allowed return which 12 also includes the revenue component. Failure to provide that opportunity would not result in just 13 and reasonable rates even though PBR makes pricing independent of costs.

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11.2 Please confirm that, under cost of service regulation, there is an incentive to increase rate base. If not confirmed, please fully explain.

20 **Response:**

FEI is aware of the economic theory that suggests that there is an incentive to increase rate base if the allowed return exceeds the market cost of capital over time. In practice, FEI does not believe this incentive exists as suggested. FEI believes that the prudence test and the used and useful test as well as competitive rate pressure all act as a clear disincentive for excess investment. Cost of service regulation in the context of FEI has led to prudent investment to expand and maintain its system.

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- 3011.3Please confirm that one of the principles of PBR is to emulate the incentive31forces that are experienced under a competitive market in order to improve32efficiencies. If not confirmed, please fully explain.
- 33



1 **Response:**

- 2 In the Alberta PBR proceeding, the AUC identified the emulation of competitive market forces, 3 to the greatest extent possible, as a principle for their PBR Plan in AUC Decision 2012-237.
- 4 Specifically, Principle 1 on page 7 of AUC Decision 2012-237 reads:
- 5 6

"A PBR plan should, to the greatest extent possible, create the same efficiency incentives as those experienced in a competitive market quote"

7 FEI considers the emulation of incentive forces under competitive market conditions to improve 8 efficiencies as more of a result of a comprehensive PBR plan than a principle. PBR effectively 9 decouples prices from the cost of service and therefore creates the intended PBR incentives for 10 utilities to optimize the various inputs of production to operate efficiently, similar to firms in 11 competitive markets. However, certain regulatory safeguard mechanisms that are essential to 12 PBR plans, (such as deferrals, SQI's and off-ramps), do not conform to competitive market 13 behavior. Therefore, FEI believes that emulating efficiency incentives as those experienced in 14 competitive markets, to the greatest extent possible, is implicit in a comprehensive PBR plan.

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- 18 11.4 Please confirm that, under PBR, one of the intents is to provide an incentive for 19 the utility to optimize the various inputs of production, including operating versus 20 capital. If not confirmed, please fully explain.
- 21

22 Response:

23 B&V provides the following response.

24 Theoretically, this may be the case. However, as a practical matter this cannot be confirmed. 25 There are at least three issues that make this view incorrect as it relates to utility regulation. The first issue is the issue of sunk costs. Prior decisions that represent sunk investment in 26 27 capital cannot be changed after the fact regardless of the efficiency of the decision based on 28 current prices. In this case, there may be a more efficient combination of input resources 29 available with current technology and prices but the implementation of that efficiency would 30 increase not decrease costs because of the sunk costs involved in the system. The second 31 issue is the lumpy nature of capital investment. Given the sunk cost nature of capital 32 investments just discussed, a utility will not acquire just the current efficient level of a productive 33 input. Instead, the utility will invest in the input based on the expected life and potential changes 34 in the output requirements in the future related to this investment. Third, as noted above, the 35 existence of regulation does not guarantee an efficient firm the market based cost of capital. Therefore, the efficient level of capital may not be used even under PBR. All of this contrasts 36



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with outcomes under the competitive model where there are no sunk costs, no lumpy investments and the market cost of capital is earned in equilibrium. It is for this reason that theoretical models of economics cannot be easily applied to regulated industries. In the real world certain basic assumptions do not apply. In the context of PBR, utilities are encouraged to make efficient decisions related to actions at the margin where the utility controls the decision as to all of the factors of production. This is not a global efficiency but a relative efficiency.

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11.5 If item 1.4 above is confirmed, please fully explain how the FEI PBR proposal provides the incentive to FEI to optimize the various inputs of production, including operating versus capital.

14 <u>Response:</u>

15 Under the proposed five-year PBR plan, rates are set annually to recover the set level of 16 expenditures prescribed by the PBR formula for the given year. Each year the component of 17 rates designed to recover O&M and Capital expenses will adjust the previous years' amount by 18 the PBR formula which includes a productivity factor. With the utility's prices separated from the 19 cost to provide service, an incentive is created for the utility to improve efficiencies via cost 20 reductions and other measures in the context of meeting SQIs and providing reliable service. 21 To the extent savings that result from efficiency measures are reflected in an ROE higher than 22 the allowed, they will be shared with the customer over the PBR term. Please also refer to the 23 response to BCPSO IR 1.11.4.

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- 11.6 Please fully explain how FEI proposes its principles be used in evaluating the FEI PBR plan as applied for.
- 28 29
- 30 Response:

FEI proposes its principles be used as a guide in evaluating the FEI PBR plan as applied for. FEI's objective is to achieve the principles to the extent reasonably possible. B&V believes that all of the general principles and objectives that have been articulated in testimony, reports and academic literature are relevant to and inform the discussion of any PBR Plan (refer to the response to BCUC IR 1.2.2). B&V also believes that the principles articulated by FEI represent the most complete set of standards for assessing the FEI Plan based on FEI's prior experience with successful plans.



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1 12.0 Reference: Exhibit B-1, FEI Application, page 45, lines 24 and 25

- **Preamble:** In lines 24 and 25, FEI discusses an annual review process and a midyear review process. The BCPSO requires an understanding of the differences between the annual and midterm processes.
 - 12.1 Please fully explain the differences between the annual review and midterm review that FEI would envision.
- 8 **Response:**

9 The Annual Review is discussed in detail in Section B6.8 (pages 78 and 79) of the Application. 10 There are two main purposes of the Annual Review. First, the Annual Reviews will have the 11 purpose of reviewing the results of PBR for the current year, including, among other things, 12 projected financial results and earnings sharing, and FEI's performance with respect to the 13 service quality indicators. Secondly, the Annual Reviews will have the purpose of setting rates 14 for the coming year. Delivery rates will be set according to the I-X provisions affecting O&M and 15 capital expenditures and forecast flow-through items, as well as any exogenous factors that are 16 brought forward to be considered in the Annual Review and approved by the Commission.

The Mid-term Review is discussed in detail in Section B6.7.1 (pages 76 and 77) of the
Application. The following quote from Section B6.7.1 describes the intent of the Mid-term
Review

20 "The Mid-term review as part of the third Annual Review is intended to be a "checkpoint" 21 to permit stakeholders to review the performance over the first three years and to 22 address specific and discrete flaws with an otherwise workable plan. This limitation is 23 important. Off-ramps exist for more fundamental flaws with the PBR Plan as a whole, 24 and short of triggering those off-ramps, the PBR Plan should be allowed to play out 25 unless there is consensus that an element of the plan is capable of being improved for 26 the mutual benefit of stakeholders."

27

The Annual Review can therefore be characterized as a key element of the normal yearly cycle of setting rates and communicating with customers about how the PBR is unfolding. The Midterm Review is more of a high level review of the performance of the PBR during the first three year with an opportunity to "tweak" the plan if unforeseen circumstances or issues can be resolved to the mutual benefit of customers and the Company.

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12.2 In the response, please fully explain why a midterm review is needed given that there is an annual review.

4 <u>Response:</u>

5 As described in the response to BCPSO IR 1.12.1 FEI believes the Mid-term Review serves a

6 different purpose than the Annual Review. On this basis FEI believes the Mid-term Review

7 should be included in the PBR Plan as a separate element from the Annual Review process.

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1 13.0 Reference: Exhibit B-1, FEI Application Section B-6.2.2.1, I Factor

- 2 Preamble: In Section B-6.2.2.1 of its Application, FEI discusses its proposed I-3 Factor. FEI proposes a weighted I-Factor with a weighting of 55% of BC 4 Average Weekly Earnings (AWE) and 45% of BC CPI. AWE are to 5 represent labour input costs, and CPI is to represent the cost of labour, 6 and CPI is to represent the cost of non-labour. BCPSO is aware of the 7 Electric Utility Construction Price Index (EUCPI) for electric utilities. The 8 BCPSO requires information to understand the choice of indices and the 9 weightings.
- 13.1 Is FEI aware of any gas utility construction price indices such as EUCPI for
 electric utilities? If so, please provide the indices and the data for 2011, 2012,
 2013 and forecast for 2014.
- 13 14 <u>Response:</u>
- FEI is not aware of a gas utility construction price index that exists for natural gas utilities, such as the Electric Utility Construction Price Index (EUCPI) that exists for electric utilities.
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 13.2 Please provide actual labour and supplies for 2008-2012 for each of O&M and Capital, and the calculation of actual ratio of labour and non labour input costs.
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23 Response:

- 24 Provided below is a breakdown of O&M and Capital Expenditures into actual labour and non-
- labour for 2008-2012. The O&M split can be found in Exhibit B-1-1, Appendix F6.



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O&M Summary (\$ thousands)

	2008	2009	2010	2011	2012
	Actual	Actual	Actual	Actual	Actual
Labour	82,641	88,318	94,443	98,084	122,163
Non-Labour	103,098	103,628	112,075	115,522	97,541
Total	185,739	191,946	206,518	213,606	219,704

	2008	2009	2010	2011	2012
	Actual	Actual	Actual	Actual	Actual
Labour	44.5%	46.0%	45.7%	45.9%	55.6%
Non-Labour	55.5%	54.0%	54.3%	54.1%	44.4%
Total	100%	100%	100%	100%	100%

1 2

Capital Summary (\$ thousands)

	2008	2009	2010	2011	2012
	Actual	Actual	Actual	Actual	Actual
Labour	20,039	20,849	20,045	21,633	26,008
Non-Labour	70,012	70,118	66,242	81,977	82,413
Total	90,051	90,967	86,287	103,610	108,421

	2008	2009	2010	2011	2012
	Actual	Actual	Actual	Actual	Actual
Labour	22.3%	22.9%	23.2%	20.9%	24.0%
Non-Labour	77.7%	77.1%	76.8%	79.1%	76.0%
Total	100%	100%	100%	100%	100%

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5 As indicated in the Application, FEI utilized the 2012 O&M figures to determine the ratio as it 6 was reflective of the figures used in the AUC proceeding and tends to have less variability than 7 the capital ratio. In addition, the capital figures tend to include a much greater percentage of 8 contract labour which although included in the non-labour line above, are also be expected to be 9 subject to similar labour inflation as the BC-AWE. The data shows that the ratio of labour and 10 non-labour are fairly consistent from 2008 to 2011 for O&M. The increase in O&M labour for 11 2012 is mainly due to the repatriation of the Customer Care department and therefore reflects the structure going forward into the PBR period. 12



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14.0 Reference: Exhibit B-1, FEI Application, Figure B6-1

2 Exhibit B-1-1, FEI Application, Appendix D, Black and Veach &V) 3 Report

Preamble:In Figure B6-1 of its Application, FEI provides TFP Values for the period
2000-2012. The BCPSO requires information to understand the TFP.

14.1 Please fully explain why Figure B6-1 only starts in the year 2000.

8 **Response:**

- 9 The data in Figure B6-1 was taken from B&V's survey of TFP studies. B&V provides the 10 following response.
- 11 As discussed elsewhere, the latest TFP studies represent a more relevant time frame to review.
- 12
- 13
- 14
- 15 14.2 Please provide a table similar to Figure B6-1 that contains data for each year16 from 1980-2000
- 17

18 **Response:**

FEI cannot provide a similar figure for the period between 1980 and 2000. FEI's position regarding the downward TFP trend is related to the more recent period. In addition, B&V notes that the use of PBR plans and TFP studies for determination of X-factor for natural gas and electricity utilities were rare in North America during the 1980s and that the majority of the related PBR plans were started after 1995.

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14.3 Please provide a list of other TFP studies conducted by B&V for regulated utilities, including the proceeding that the study was filed in.

30 **Response:**

31 Please refer to the response to CEC IR 1.81.3.



1 **15.0** Reference: Exhibit B-1, FEI Application, Section B-6.2.4, O&M under PBR

Preamble: In Section B-6.2.7 of its Application, FEI provides a discussion of O&M
 costs. In Table B6-4, FEI provides a reconciliation of 2013 Decision
 O&M. The BCPSO requires information to assess the adjustments to
 O&M

15.1 Please provide a detailed analysis of the costs included in Sustainable Savings of \$14,670,000.

9 Response:

- 10 Please refer to the response to BCUC IR 1.83.1.
- 11

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- 1415.2Please provide the amount of (i) PST, (ii) BCUC Fees and Insurance, and (iii)15Pension (O&M Portion) that is already included in the 2013 Decision O&M of16\$213,003,000.
- 17

18 **Response:**

To clarify, as shown in Table C3-1 of this Application, the 2013 Approved Gross O&M is actually\$236,003,000.

The 2013 Approved O&M includes \$0 for PST expenses as the 2012-2013 Revenue Requirement Application included HST which is a flow-through tax and not an additional cost to the utility. The amount shown in Table B6-4 for PST of \$762 thousand relates to a full year impact of PST that will be incurred in 2014 O&M costs whereas nothing was approved in 2013 O&M costs.

The 2013 Approved O&M includes \$1.404 million related to BCUC Fees and \$4.617 million related to Insurance. The \$1.016 million shown in Table B6-4 for BCUC Fees & Insurance costs represents expected actual costs incurred and recorded to deferral accounts in 2013 over and above the amounts approved in 2013 O&M.

- 30 The 2013 Approved O&M includes \$15.638 million in Pension & OPEB expenses as shown in
- 31 Table C3-4 of this Application. The \$10.605 million shown in Table B6-4 for Pension (O&M
- 32 Portion) represents the O&M portion of expected actual costs incurred and recorded to deferral
- accounts in 2013 over and above the amounts approved in 2013 O&M.



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Please provide a reconciliation of the amounts included in Table B6-4 and in

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7 Response:

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8 Please refer to the response to BCPSO IR 1.15.2.

response to 5.2 above.



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1 16.0 Exhibit B-1, FEI Application, Figure B6-2

- Preamble: FEI provides Figure B6-2, that contains a comparison of PBR O&M and
 Forecast O&M. The BCPSO requires information to assess the forecasts,
 and understand the impact of PBR on forecast costs.
 - 16.1 Please provide the actual data for the years 2008-2012 for Figure B6-2.
- 5 6

7 Response:

8 In the course of responding to this IR, a minor discrepancy was noted between the Forecast

- 9 O&M in Figure B6-2 and the Forecast O&M in Table C3-5 of page 133 of the Application. As
- 10 Table C3-5 reflects the accurate Forecast O&M for 2014 to 2018, the figure in this response has
- 11 been corrected accordingly. Also note that due to changes in accounting policies that have
- 12 classified items differently between O&M and capital over the time period shown, the total O&M
- 13 in each year is not directly comparable. FEI will update this page in its next Evidentiary Update.

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Comparison of PBR O&M vs. Forecast O&M (\$000) \$300,000 \$250,000 \$200,000 \$150,000 \$100,000 \$50,000 \$-2010 2016 2017 2008 2009 2011 2012 2013 2014 2015 2018 Actuals Actuals Actuals Forecast Forecast Forecast Forecast Actuals Actuals Base O&M Expenses \$185,739 \$191,946 \$206,518 \$213,606 \$212,269 \$230,985 \$239,934 \$245,761 \$252,443 \$259,315 \$267,907 \$230,985 \$235,240 \$239,788 \$244,263 \$249,190 \$255,370

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16.2 Please provide a figure similar to Figure B6-2 that contains O&M per customer for the years 2008-2018.

4 <u>Response:</u>

5 In the course of responding to this IR, a minor discrepancy was noticed between the Forecast 6 O&M in Figure B6-2 and the Forecast O&M in Table C3-5 of page 133 of the Application. As 7 Table C4-5 reflects the accurate Forecast O&M for 2014 to 2018, the O&M per Customer 8 calculated in this response has been corrected accordingly. Also note that due to the one-time 9 customer count adjustment in 2012, the per-customer figures are not directly comparable in all

10 years. FEI will update this page in its next Evidentiary Update.



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Comparison of PBR O&M per Customer vs. Forecast O&M per Customer





Page 32

1 17.0 **Reference:** Exhibit B-1, Application, Section B-6.2.4.2, 2014-2018 O&M

2 Exhibit B-1-1, Application, Volume 2, Appendix F6, Gas 5 year 3 History of O&M and 5 Year Forecasts

- 4 **Preamble:** In Section B-6.2.4.2 of its Application, FEI discusses its O&M forecasts. 5 In the formula at the top of page 57, it appears that the derivation of O&M 6 is really an O&M per customer factor. The BCPSO requires information 7 to understand the history of O&M per customer.
- 8 17.1 Please provide Appendix F6 in Excel format.

10 Response:

11 Regarding the preamble to this IR, the formula in Section B-6.2.4.2 is intended to forecast the 12 total annual O&M allowed under the PBR formula. However, as in any formula where total

13 costs and total customer numbers are known, a per unit cost can be determined by dividing the 14 total cost by the total number of customers.

- 15 Please refer to Attachment 17.1 for Appendix F-6 in an Excel format.
- 16

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- 18 19 In the response to 17.1 above please include a reconciliation between total O&M 17.2 20 and controllable O&M for each year.
- 21
- 22 Response:

23 Please refer to the response to BCUC IR 1.17.1 for a reconciliation between total O&M and 24 controllable O&M (as defined by the PBR formula) for each year.

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- 28 Please provide the customers, similar to the customers that would be included in 17.3 29 the formula at the top of page 57 of the FEI Application, for each year in 30 Appendix F6.
- 31 32 Response:
- 33 Provided below is a summary of average customers for the years identified in Appendix F6.



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		2008	2009	2010	2011	2012	2013	2013	2013	2014	2015	2016	2017	2018
		Actual	Actual	Actual	Actual	Actual	Projection	Approved	Base	Forecast	Forecast	Forecast	Forecast	Forecast
1	Average Customers	825,696	832,751	839,017	845,282	834,888	840,721	859,708	N/A	845,495	850,620	856,001	861,402	866,681



1	18.0	Reference:	Exhibit B-1, Application, Section B-6.2.4.2, 2014-2018 O&M
2 3			Exhibit B-1-1, FEI Application, Volume 2, Appendix F6, Gas 5 year History of O&M and 5 Year Forecasts
4 5 6 7		Preamble:	In Section B-6.2.4.2 of its Application, FEI discusses its O&M forecasts. In the formula at the top of page 57, it appears that the derivation of O&M is really an O&M per customer factor. In Appendix F6, FEI provides O&M by activity or function. Functions include:
8 9 10 11 12 13 14			 Distribution, Transmission, LNG Plant, Customer Service, Energy Solutions & External Relations, Energy Supply & Resource Development, Information Technology,
15 16 17 18 19 20 21 22			 Engineering Services & Project Management, Operations Support, Facilities, Environmental Health & Safety, Financial & Regulatory Services, Human Resources, Governance, and Corporate
23 24 25 26			The BCPSO requires information to understand the cost drivers of each function, and how changes in each function are impacted by changes in customers.
27 28 29	Resp	18.1 Plea onse:	se fully explain the cost drivers for each function listed in Appendix F6.
30	The fu	unctions listed	I in Appendix F6 are the same as the departments discussed in Section C3

31 of the Application.

Section B 6.2.4.2 of the Application discusses the formulaic O&M. As discussed on page 57,
 the drivers of formulaic O&M are: average customers, inflation factor, and productivity factor.

Section C3 of the Application discusses both Actual and Forecast O&M. Within this Section the
 term 'business driver' should be used inter-changeably with the term 'cost driver'. Section
 C3,Pages 124-133 provides an overview and description of broad based business drivers that



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1 are common across the organization. Section C3, Pages 134-201 discusses forecast O&M on a

2 department basis. Here, a review of business drivers that are specific to each department can

3 be found.

In addition to the explanation above the Functionalization and Classification of costs that are part of embedded cost of service allocation (COSA) studies for Rate Design are also helpful. The nature of the operating and maintenance costs stem from the primary driver for the costs of the gas plant in service. The following functions have been copied from the preamble to this IR and FEI has added beside each one the primary drivers which are used in the classification of costs in the COSA for FEI.

- Distribution Distribution system capacity requirement of customers served from the distribution system and the number of customers
- Transmission System peak capacity requirements for all customers
- LNG Storage Peak capacity requirements of firm service customers, excludes
 Interruptible Service customers and firm Large Industrial Customers.
- Customer Service Number of customers
- Energy Solutions & External Relations Primary driver is the number of customers,
 however some costs within this function are related to system capacity
- Energy Supply & Resource Development O&M costs are related to gas control activities and major resource development projects and these type of fixed costs are classified as capacity
- Engineering Services & Project Management, and Operations Support Costs are allocated based on capacity and number of customers that follow the functionalization and classification of gas plant costs as the work performed is related to gas plant
- 24 Information Technology, Facilities, Environmental Health & Safety, Financial & 25 Regulatory Services, Human Resources, Governance and Corporate - These costs are 26 general and exist because of the presence of the utility, they are broadly allocated based 27 on the functionalization and classification of the gas plant costs which are related to the number of customers and the capacity requirement to serve customers. The costs in 28 these areas are general and do not directly track to the number of customers, peak 29 30 system capacity or energy throughput. The allocation method allows for the costs to be 31 broadly allocated for customer responsibility from all customers.
- 32


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- 1 As can be seen in the above list, in almost every case, the classifier is demand/capacity or
- 2 customers or a combination of both. This reflects what B&V has indicated in its reports and in
- 3 various responses to IRs, i.e. that outputs for a LDC are measured by demand and customers,
- 4 and not throughput. The only cost that is driven by throughput is odorant which is an immaterial
- 5 portion of the overall revenue requirement.



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1 **19.0** Reference: Exhibit B-1, FEI Application, Section B-6.2.5

- Preamble: In Section B-6.2.5 of its Application, FEI discusses Capital Expenditures
 under PBR. In Appendix F6, FEI provides history of O&M. The BCPSO
 requires a similar schedule for capital.
- 5 19.1 Please provide a schedule similar to Appendix 6 that provides historic and 6 forecast capital expenditures. Please provide capital by asset account, clearly 7 identifying (i) growth capital, (ii) sustainment and other capital, and (iii) CPCN 8 capital.
- 9 10 **Response:**
- 11 Please refer to the table presented below.



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	Actual	Actual	Actual	Actual	Actual	Projection	Approved	Base	Forecast	Forecast	Forecast	Forecast	Forecast
Sustainment Capital													
Meter Recalls/Exchanges	11,563	14,479	19,126	22,922	24,197	25,062	21,272	22,471	25,967	26,852	25,869	24,225	25,085
Transmission System Reinforcements	13,299	11,848	9,771	10,808	14,964	18,005	24,386	25,180	16,555	20,479	15,537	14,221	14,298
Distribution System Reinforcements	8,050	8,524	5,198	7,670	8,574	8,691	7,610	7,858	10,112	7,282	7,546	8,073	8,653
Distribution Mains & Service Renewals & Alt.	9,398	12,757	11,342	17,736	16,556	20,500	21,845	22,556	25,815	24,433	28,245	34,059	34,304
Total Sustainment Capital	42,309	47,608	45,437	59,137	64,291	72,258	75,114	78,065	78,449	79,045	77,198	80,578	82,340
Growth Capital													
New Customer Mains	10,983	6,133	4,538	4,510	5,374	5,033	6,500	6,783	5,374	5,462	5,561	5,664	5,798
New Customer Services	17,954	12,073	13,874	14,423	17,423	16,791	12,910	13,471	18,360	19,502	20,214	20,337	20,363
New Customer Meters	3,300	1,498	1,905	1,699	1,403	1,438	2,105	2,197	1,664	1,805	1,876	1,877	1,862
Total Growth Capital	32,237	19,704	20,317	20,632	24,200	23,262	21,515	22,451	25,398	26,769	27,651	27,878	28,022
Other													
Biomethane - Interconnect	-	-	504	-	-	1,100	1,015	1,032	3,908	1,100	1,864	1,864	1,864
Equipment	2,996	6,607	3,434	3,499	3,951	3,875	2,930	5,840	6,818	7,328	7,127	7,358	6,702
Facilities	1,988	2,805	4,177	5,840	1,996	7,549	4,124	4,194	3,904	4,026	4,122	4,269	4,626
П	10,468	14,245	12,418	14,503	13,983	21,600	18,000	20,107	20,105	20,105	20,106	20,102	20,098
Total Other	15,452	23,657	20,533	23,841	19,930	34,124	26,069	31,173	34,735	32,560	33,218	33,593	33,289
Total Gross Capex	89,998	90,968	86,287	103,610	108,421	129,644	122,698	131,689	138,582	138,374	138,067	142,050	143,652
CIAC	(11,291)	(4,615)	(3,922)	(7,948)	(5,830)	(5,864)	(5,400)	(5,492)	(5,821)	(5,821)	(5,821)	(5,820)	(5,819)
Total Net Capex	78,707	86,353	82,365	95,662	102,591	123,781	117,298	126,197	132,762	132,554	132,247	136,230	137,833

88,470

CPCN⁽¹⁾ 7,848 12,879 203 31,268

1 (1) Includes AFUDC on CPCN's

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19.2 Please provide the response in Excel format with formulae and links intact.

- 2
- 3 Response:
- 4 Please refer to Attachment 19.2 for the fully functional electronic spreadsheet.



1 20.0 Reference: Exhibit B-1, FEI Application, Page 62, line 25

- Preamble: In line 25 of page 62, FEI provides its formula for Growth Capital. The Growth Capital for year "t" is based on the cost per service line addition in the previous year. The BCPSO requires information to understand why FEI does not use the 2013 Base as provided in Table 6-6 as the cost per service line additions.
 - 20.1 Please confirm that, in the formula on page 62, FEI will use actual growth capital in year "t-1" and actual service line additions in year "t-1". If not confirmed, please fully explain.
- 9 10

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11 Response:

12 The characterization of line 25 provided in the preamble to this question is not correct. Growth 13 Capital for year "t" is not based on the cost per service line addition in the previous year.

14 Growth Capital is driven by service line additions (which are calculated as a percentage of gross 15 customer additions) that arise from providing service for new customers. For that reason, the 16 PBR formula FEI proposes to apply to Growth Capital is tied to the forecasted service line 17 additions for the upcoming year. In essence, the formula escalates the unit price of all growth capital per service line addition - termed the Average Growth Capital Cost per Service Line 18 19 Addition – by the I-X Mechanism and forecasted Service Line Additions to determine the Total 20 Allowed Growth Capital under PBR for year "t". The following formula illustrates the formula 21 applied to Growth Capital:

$$GC_t = \frac{GC_{t-1}}{SLA_{t-1}} \times [1 + (I - X)] \times SLA_t$$

Where: $GC = Growth \ Capital \ Allowed \ Under \ PBR$ $SLA = Service \ Line \ Additions$ $t = Upcoming \ year$ $I = Inflation \ Factor$ $X = Productivity \ Factor$

22 Actuals for Growth Capital and Service Line Additions for year "t-1" are not used. Rather, it is 23 the formula-driven Growth Capital per Service Line Addition for year "t-1" that is used. The 24 formula-derived Growth Capital Allowed per Service Line Addition under PBR for the current 25 year is escalated by the PBR formula and multiplied by the upcoming year's forecasted Service 26 Line Additions. The product of this calculation equals the Total Allowed Growth Capital under 27 PBR for the upcoming year "t". For example, to determine the Total Growth Capital Allowed 28 under PBR for 2014, the 2013 Base unit cost per service line addition is escalated by the PBR 29 formula and multiplied by the 2014 forecasted Service Line Additions.



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20.2 If the response above is confirmed, please fully explain why the growth capital factor is not based on the 2013 base growth capital from Table 6-6, divided by the service line additions included in the 2013 base.

8 <u>Response:</u>

9 The growth capital formula calculation can be found in Table B6-7. The Growth Capital for 2014

10 is calculated using the 2013 Growth Capital per Service Line Addition as the starting point. The

2013 Growth Capital per Service Line Addition is the 2013 base growth capital from Table B6-6
 (\$22,451 thousand) less the Insurance and OPEB expenses tracked outside the PBR formula

(\$22,451 thousand) less the Insurance and OPEB expenses tracked outside the PBR formula
 (\$569 thousand) divided by the service line additions included in the 2013 base (7,989). See

14 Table B6-7 for the PBR Growth Capital calculation and results.



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1 21.0 Reference: Exhibit B-1, FEI Application, page 64

- Preamble: On page 64 of its Application, FEI provides its formula for sustainment
 capital. The formula includes growth in customers. The BCPSO requires
 information to understand how growth in customers impacts sustainment
 capital.
 - 21.1 Please confirm that sustainment capital is to maintain the existing system. If not confirmed, please fully explain.

9 **Response:**

- 10 This is generally true. Please also refer to the response to BCPSO IR 1.21.2.
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21.2 Please fully explain why growth in average customers should be a factor in sustainment capital.

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17 <u>Response:</u>

18 Sustainment capital includes the installation of system capacity improvements. System capacity 19 improvements are required when a significant number of additional customers connect to the 20 system and the forecasted pressures within the piping system will be too low to provide 21 adequate gas supply to all customers and generally take the form of the installation of additional 22 mains in parallel with the existing mains. Thus, customer growth within a piping system drives 23 the need for system capacity improvements and sustainment capital expenditures. For a 24 discussion of the difference between sustainment and growth capital please refer to the 25 response to BCPSO IR 1.21.3.

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- 29 21.3 Please fully explain why the growth capital component does not cover growth in customers.
- 31

32 Response:

The growth capital component represents the capital costs required to connect new customers to the system and, as such, does cover the growth in customers. The customer growth is



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reflected through the "Service Line Additions" driver of the Growth Capital Formula and the
 formula is directly connected to customer additions.

In contrast, sustainment capital pertains to capital work required to sustain the system for all customers (existing and new). The customer driver for the sustainment capital spending recognizes that as more customers are added to the system, the overall size of the system will increase, meaning that more capital of a sustaining nature is needed to serve the larger system. This is why the sustainment capital portion is driven by the **average** number of customers rather than the driver used for growth capital which is service line additions (which is in turn based on customer additions).



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1 22.0 **Reference:** Exhibit B-1, FEI Application. Section B-6.3.2

2	Preamble:	In Section B-6.3.2 of its Application, FEI discusses Flow-Through
3		Expenses. There are
4		Interest Expense

- Interest Expense
- Return on Equity
- Taxes
 - Pension and OPEB Expenses and Insurance Costs
- Revenues
 - Depreciation and Amortization
 - Rate Base other than Gas Plant in Service (from Capital Expenditures)
- 12 The BCPSO requires an understanding of the changes in flow through 13 costs and the impact on the PBR plan
- 14 22.1 Please identify and fully discuss all changes in the proposed flow through items 15 from the currently approved deferral accounts.
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17 Response:

To clarify, FEI is not requesting any new deferral accounts in this Application specifically related 18 19 to any of the flow-through items discussed in Section B6.3.2. Existing deferral accounts that 20 capture variances between the actual and forecasted costs, such as the Insurance Variance 21 and Pension and OPEB Variance deferrals, will continue through the PBR period.

22 The list in Section B6.3.2 is provided to identify which items will be subject to annual re-23 forecasting during the Annual Review process. The first six items are all currently included in 24 the cost of service and revenue requirements for FEI in the existing 2013 approved RRA. The 25 seventh item refers to amounts included in the rate base for FEI, such as gas-in-storage 26 inventory and other working capital items that do not pertain to the PBR I-X capital formulas. 27 These items are all included in the existing 2013 approved RRA and have been included in rate 28 base on the same basis for some time.

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- 32 22.2 On page 69, lines 5-9, FEI indicates that Pension and OPEB Expenses and 33 Insurance Costs are afforded deferral treatment. In Table B6-4, FEI adds 34 Pension costs of \$10,605,000 to O&M in arriving at the 2013 base O&M. Please 35 fully explain why, given that pension costs are afforded deferral treatment, there



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should be an amount added to O&M for pension costs to arrive at the 2013 base O&M.

4 <u>Response:</u>

5 Refer to the response to BCUC IR 1.12.1 and 1.12.1.1 for a further explanation of the treatment

6 of pension and OPEB and insurance expenses during the PBR term.



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1 23.0 **Reference:** Exhibit B-1, FEI Application, Section B-6.3.3, Exogenous 2 **Adjustments**

In Section B-6.3.3 of its Application, FEI discusses its proposal for 3 Preamble: 4 exogenous adjustments. The BCPSO requires information to better 5 understand the FEI proposal.

- 23.1 Please confirm that FEI has not proposed a materiality limit for exogenous If not confirmed, please provide the materiality limit and a adjustments. reference to where it is proposed.
- 9 10 **Response:**
- 11 Confirmed.
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- 23.2 Please provide the FEI recommendation for a materiality limit for exogenous adjustments.
- 16 17

Response: 18

19 FEI recommends no materiality provision on the exogenous factor adjustments. FEI and B&V 20 believe that placing a materiality limit is most likely to deny prudent cost recovery and thus increase the underlying risk. The cost increases or decreases arising from exogenous factors 21 22 are non-controllable costs that would be subject to recovery in rates under cost of service-based 23 ratemaking without any materiality threshold. The appropriate mitigation of this risk is to not set 24 a limit on recovery.



1 24.0 **Reference:** Exhibit B-1, FEI Application, Section B-6.4, Earnings Sharing 2 Mechanism 3 **Preamble:** In Section B-6.4 of its Application, FEI discusses its earnings sharing 4 mechanism. The BCPSO requires information to better understand the 5 FEI proposal. 6 24.1 Please confirm that FEI has not proposed a dead band for earnings sharing. If 7 not confirmed, please provide the dead band and a reference to where it is 8 proposed. 9 10 **Response:** 11 Confirmed. 12 13 14 15 24.2 Please provide the FEI recommendation for a dead band for earnings sharing. 16 17 **Response:** 18 FEI is not proposing a dead-band for its earnings sharing mechanism. A deadband would mean 19 that all savings within the band flow to the Company, not customers, during the PBR period (i.e. 20 until rebasing occurs at the end of the period). Under FEI's proposal with no deadband,

customers benefit immediately under the ESM, and then continue to benefit through rebasing.
 In other words, customers stand to benefit.

FEI believes that a dead-band would increase the regulatory burden required to review and approve the amount of the shared earnings. Based on FEI's positive experience with the earnings sharing mechanism in the 2004 PBR (which was also designed with no dead-band) and the PBR guiding principles (see page 43 of the Application, particularly principle number 5 regarding sharing benefits) an ESM with no dead-band can best achieve the PBR design objectives.



1 25.0 Reference: Exhibit B-1, FEI Application Section B-6.5, Efficiency Carry-Over 2 Mechanism (ECM)

- Preamble: In Section B-6.5 of its Application, FEI discusses is proposed Efficiency
 Carry-Over Mechanism for the end of the PBR term. As FEI has
 proposed that there be an ECM at the end of the PBR term, the BCPSO
 requires an understanding of how efficiencies achieved under Cost of
 Service (COS) will be accrued to customers.
- 8 25.1 Please confirm that it is FEI's view that, if customers pay the cost of projects that 9 result in financial benefits, such as reduced costs, the benefits should be 10 reflected in customer rates, and not shareholder returns. If not confirmed, please 11 fully explain.

13 Response:

12

14 Customers do not pay the costs of projects, except in certain cases where a contribution-in-aid-15 of-construction is required for a specific project. However, FEI agrees that the regulatory 16 compact would suggest that net benefits of capital projects that produce O&M savings would be 17 reflected in customer rates upon rebasing, while the Company earns a fair return on its invested 18 capital.

19 This fundamental relationship is still true whether under cost of service regulation or under PBR. 20 O&M and capital are rebased at the conclusion of a PBR to ensure the long term benefits of the 21 savings go to customers. Customers achieve greater benefits in the long term under PBR than 22 under traditional cost of service regulation because the PBR effectively delays rebasing to 23 incent the utility to invest more to achieve new cost savings, efficiencies and/or new revenues. 24 In the meantime, customers get the benefit through earnings sharing.

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25.2 The BCPSO notes that, in Table B6-4, FEI identifies Sustainable Savings as an adjustment to O&M costs. Please fully provide a summary of all savings generated in the previous COS regime, whether FEI considers the savings sustainable or not. In the response, please provide a complete description of the savings and an explanation of why FEI considers the savings sustainable or not.

34 **Response:**

The following table provides a summary of O&M savings generated in the most recent COS regime which covers 2010 through 2013 (with 2013 savings being provided on a forecast basis).



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- 1 Please note that of the \$14.7 million of savings in each of 2012 and 2013, \$17.7 million in total
- 2 for the two years was related to the Customer Service department and has been captured in the
- 3 Customer Service deferral account for return to customers.

O&M (\$thousands)	2010	2011	2012	2013
	Actual	Actual	Actual	Projected
Allowed	206,464	214,680	226,992	236,003
Actual/Projected	206,518	213,606	212,269	221,333
Savings/(Overspend)	(54)	1,074	14,723	14,670

6 During 2010 and 2011 the savings/overspend was minimal.

7 For an analysis of the 2012 savings, please refer to the response to BCUC IR 1.82.1.

8 For an analysis of the 2013 projected savings please refer to the response to BCUC IR 1.83.1.

9

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- 12 25.3 Please fully explain how the inclusion of O&M savings in the ECM is not a double
 13 counting of the Earnings Sharing Mechanism.
- 14

15 **Response:**

16 The inclusion of O&M savings in the ECM is not a double counting of the Earnings Sharing 17 Mechanism because the O&M benefit in the ECM (as well as the capital benefit) only affects 18 customer rates after the end of the PBR term. This is illustrated in Appendix D-6 of the 19 Application on page 3. Line 28 of the table on page 3 indicates that rate adjustments for the 20 ECM are permitted only after the end of the PBR five-year term.

The ECM is structured to provide the same incentive for FEI to pursue O&M and capital savings in each year of the PBR term. With the ECM, customers benefit through 50/50 sharing of the O&M and capital efficiency savings achieved for a five-year period regardless of when in the PBR term they are achieved, and then receive 100% of the savings in the longer term as the yearly ECM benefits lapse successively.

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25.4 Please fully explain why, given that FEI includes incremental capital expenditures based on its formula in rates, that there is any need for an ECM.

4 **Response:**

Customers benefit during the term of the PBR from capital savings achieved through the X
factor, and through the earnings sharing mechanism. After the end of the PBR term, customers
benefit as these savings are rebased in opening rate base.

8 There is no mutual exclusivity between including savings associated with lower capital 9 expenditures based on the PBR formula in rates and the implementation of an ECM. In other 10 words, the ECM is a complementary mechanism to the PBR plan that does not contradict any 11 other PBR plan elements.

12 The ECM is designed to provide the same level of motivation for FEI to pursue both capital and

13 O&M savings throughout the five-year PBR term. Customers receive long term benefits when

14 the efficiencies and savings achieved by FEI are fully rebased in rates.

Since O&M and capital will be rebased to actual levels after the end of the PBR term, without an ECM there will be a diminishing incentive with each passing year for FEI to pursue further savings. The proposed ECM resolves this dilemma by ensuring that incremental savings and efficiencies achieved in the fourth or fifth year will provide the same incentive to the utility as those in the first year. Better long term benefits accrue to customers as the savings and efficiencies achieved throughout the full PBR term are rebased in rates going forward.



1 26.0 **Reference:** Exhibit B-1, FEI Application, Section B-6.6, Service Quality 2 Indicators Exhibit B-1, FEI Application, Table B5-1, 3 4 Exhibit B-1-1, Appendix D7 Preamble: In Section B-6.6 of its Application, FEI discusses Service Quality 5 6 Indicators. In Table 6-9, FEI includes a number of SQIs, but does not 7 include benchmarks for all. 8 Further, in table B-5-1, FEI asserts that there are no penalty/reward 9 mechanism attached to SQIs in the PBR plan 10 The BCPSO requires an understanding of the consequences of failure to 11 meet SQIs. Please provide a full discussion of whether FEI considers the current service 12 26.1 13 levels adequate for its customers. In the response, please provide the basis of 14 the FEI understanding. 15

16 Response:

17 In general, FEI believes that its current service levels as represented by SQIs and benchmarks 18 are appropriate for its customers and reflective of the current approved funding. As FEI has 19 indicated in its Application, the objective of SQIs is to ensure that the Company continues to 20 provide an "acceptable level" of service at an "acceptable level" of cost to our customers. This 21 is consistent with PBR Principle 4 as outlined in Section B6.1 PBR Principles in Exhibit B-1, "the 22 PBR plan should maintain the utility's focus on maintaining, safe, reliable natural gas service 23 and customer service quality while creating the efficiency incentives to continue with the 24 productivity improvement culture."

- Following is a discussion of why FEI believes the service levels for its proposed SQIs are 25 26 appropriate.
- 27 Customer Satisfaction Index - Overall, FEI believes its customers are satisfied as indicated in the Company's customer satisfaction index. Recent years' results have 28 29 been stable (refer to Appendix D7 Figure D7-3 of Exhibit B-1-3), performing at over 80 percent, indicative of customers' general level of satisfaction with the Company. 30
- 31 Telephone Service Factor - FEI believes that the appropriate balance of cost and 32 service for non-emergency calls is 70 percent of calls answered in 30 seconds or less 33 (70/30) and for emergency calls, 95 percent of calls answer in 30 seconds or less



- 1 (95/30). FEI believes that these service levels reflect an appropriate balance between 2 cost and service levels, is a service level adequate for customers, and allows for a better 3 comparison between its gas and electric operations. Recent years' results are 4 consistent with the proposed benchmarks.
- First Contact Resolution FEI believes that a target of 78 percent is an adequate service level given that the average call center in the industry is achieving a score of 70 percent (refer to Appendix D7 Figure D7-7 of Exhibit B-1-3). The proposed target reflects the 2012 results achieved by FEI.
- Billing Index The proposed benchmark of 5.0 is consistent with the initial benchmark
 originally established for this measure back in 2004. Recent years' results are
 consistent with the proposed benchmark of 5.0.
- Meter Reading Accuracy This is a new measure being tracked starting in 2012. The
 proposed 95 percent level for meter reading is consistent with actual results realized in
 2012 and represents the target built into the new contract for meter reading.
- Meter Exchange Appointment FEI's recent performance has been consistently above
 95 percent, which is higher than the original benchmark of 92.2 percent established back
 in 2004. The proposed benchmark is set at 95 percent.
- Emergency Response Time Under the CGA definition of emergency events (refer to page 5 of the Service Quality Indicators report included in Exhibit B-1-3 Appendix D-7),
 FEI's response time is consistently higher than the industry average (i.e. 97.7 percent average from 2010 2012 compared to industry average near 95 percent) and in the top quartile of CGA member companies. The proposed benchmark is set at 95 percent.
- Safety, All Injury Frequency Rate and Public Contacts with Pipelines These SQIs
 are informational in nature, focused more on ensuring safety, from both an employee
 and a public safety perspective, than on actual service quality.

For the proposed PBR Plan, FEI believes the proposed SQIs and benchmarks are appropriate. In setting the benchmarks, representing the targeted service levels for the proposed SQIs, FEI relied primarily on the performance of the SQIs over the last three years. And given that the O&M costs proposed during the PBR period will be managed to a similar level, after adjusting for inflation, with the O&M spending levels observed from 2010 – 2012, FEI believes it is appropriate to base the proposed benchmarks on recent years' performance that are reflective of the costs required to provide the service levels.

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26.2 Please confirm that, in Alberta, the Alberta Utilities Commission has engaged in a consultative process to develop a rule related to penalties related to service quality indicators. If not confirmed, please fully explain.

5 6 **Response:**

7 In Alberta, the Alberta Utilities Commission's (AUC) Rule 002 sets out the service quality 8 reporting requirements for electric and gas distributors. In AUC's Decision 2012-237, the 9 Commission indicated that it shall initiate a consultation process to review and revise the AUC 10 Rule 002. AUC also stated that following the completion of the consultative process, the 11 Commission will issue a bulletin indicating the process to be followed with respect to the 12 adjudication of penalties.

13 AUC Rule 002 is a general rule and not specific to the PBR plans. In other words, even if the

14 consultation process leads to development of a penalty mechanism, the defined mechanism

15 would not be specific to a PBR plan and will apply to all the utilities even after the PBR term is

16 finished.

17 The link below includes the latest bulletin update that is available on AUC's website regarding 18 this consultation process:

- http://www.auc.ab.ca/rule-development/service-quality-and-19
- 20 reliability/Documents/Rule002AnnualReviewMeetingsandPenaltiesConsultationApril9_2013meetingsumm 21 ary.pdf
- 22
- 23
- 24 25 26.3 Please provide a full explanation of the consequences of failure to meet any of 26 the SQIs.
- 27
- 28 Response:
- 29 Please refer to the response to COPE IR 1.7.8.
- 30 In addition, as mentioned in Exhibit B-1 Section B6.7.2.2 Non Financial Triggers, failure to meet
- 31 one (or more) SQI benchmarks does not necessarily constitute unacceptable performance.
- 32 Triggering of the off-ramp provision would be warranted only if there is a sustained serious
- 33 degradation of the SQIs.



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26.4 In Appendix D7, Table D5-5, FEI provides the recent history of meter exchange performance. Please provide the average of the three years history provided, and an explanation of why the recent three years history should not form the basis of the benchmark.

8 9 **Re**:

Response:

Please refer to the discussion on page 7 of the report titled "Service Quality Indicators" inAppendix D7.

12 As indicated in Table D5-5 (Table D7-5 in the Evidentiary Update), the results for each of 2010,

13 2011 and 2012 have been provided along with the average of the three years (2010 to 2012 –

14 95.7%). The proposed benchmark of 95% is based on this recent three year history.

Please note FEI incorrectly updated Table D7-5 of Appendix D7 in the July 16, 2013 Evidentiary Update when it should have updated Table D7-6 instead. Following is a revised Table D7-5 incorporating a correction to the current benchmark from 95.0% reported in the Evidentiary Update to the 92.2% that was originally reported. FEI will update this page in its next Evidentiary Update.

20

Table D7-5: Recent historical results for meter exchange appointments met and benchmarks

-	3 . []					
	2010	2011	2012	2010 - 2012 Average	Current benchmark	Proposed benchmark
	94.2%	96.5%	96.5%	95.7%	92.2%	95.0%
21	-					
22						
23						
24						
25		26.5 In	Append	lix D7, Table D5-6, F	El provides the recer	nt history of Telephone
26		S	ervice Fa	actor performance. Pl	ease provide the aver	age of the three years
27		hi	story pro	vided, and an explanati	ion of why the recent th	ree years history should
28		n	ot form th	e basis of the benchma	ark.	
29						
30	Respor	nse:				

Telephone service factor (TSF) is a measure that balances service quality and cost. A higher TSF means more resources are available to answer calls. A lower TSF translates into lower



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1 resource levels and therefore, lower costs. The goal of a TSF target is to get as close to the 2 target as possible. If the TSF results are lower than target, then service levels are lower than 3 expected. If TSF results are higher than target, it suggests that it is possible to reduce the 4 amount of resource costs spent going forward while still achieving an acceptable level of 5 service. FEI did not set the target at the three year average of 76% because, as discussed in 6 section C3.5.4 of the Application, FEI is proposing amending the target from 75% to 70% in 7 order to align the targets for the gas and electric operations and to more effectively balance cost 8 and service levels. A higher benchmark (such as the three year average results) can be 9 attained, but at a higher cost.

10 Please note following is a revised Table D7-6 of Appendix D7 incorporating a correction to the 11 current benchmark for Emergency TSF from 92.2% previously reported to 95.0% currently.

12

Table D7-6: Recent historical results for Telephone Service Factor

Type of Call	2010	2011	2012	Current benchmark	Proposed benchmark
Emergency	99.2	96.5%	96.5%	95.0%	95.0%
Non Emergency	77.2	74.7	76.2	75.0%	70.0%

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26.6 Appendix D7, page 17, removes number of complaints to BCUC as a performance metric. Please provide the history of complaints for 2010-2012 and an explanation of why FEI would exclude this metric.

19 20

21 **Response:**

The number of complaints to BCUC totaled 37 in 2010, 4 in 2011 and 3 in 2012. As at the end of July, 2013 we have 2. FEI believes the following two measures are more indicative of service levels.

As indicated in Appendix D7, both First Contact Resolution (FCR) and Customer Satisfaction 25 Index (CSat) Performance Metrics, reflect a more timely and accurate state of service and 26 27 quality levels. The CSat takes into account four different customer satisfacation surveys. This 28 customer satisfaction model was designed to provide feedback regarding customer satisfaction 29 and to ensure that service quality is maintained at acceptable levels during the various stages of 30 application. FCR is a reflection of the customers' opinion on whether or not their issue has been 31 resolved on the first contact. Both metrics are measured direct from our customers' perspective 32 thereby providing a true reflection of service levels.



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26.7 In Appendix D7, Table D5-10, FEI provides the recent history of AIFR performance. Please provide an explanation of why the recent three years history should not form the basis of a benchmark.

Response:

9 The three proposed SQIs of Annual Injury Frequency Rate, Public Contacts with Pipelines and
10 Customer Satisfaction Index are considered information only indicators with their performance
11 assessed by comparing to previous years' performance.

12 These three SQIs can be influenced by events beyond the control of and external to company 13 operations. As such, setting a benchmark / target for these SQIs is inappropriate.

26.8 In Appendix D7, Table D5-11, FEI provides the recent history of Public Contact with Pipelines. Please provide an explanation of why the recent three years history should not form the basis of a benchmark. Response: Please refer to the response to BCPSO IR 1.26.7. 26.9 In Appendix D7, Figure D5-3, FEI provides the recent history of CSI performance. Please provide an explanation of why the recent three years history should not form the basis of a benchmark. Response: Please refer to the response to BCPSO IR 1.26.7.



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26.10 Please provide the percentage of non-emergency appointments met on time for each of 2010-2012.

5 **Response:**

6 With the exception of meter exchange work, appointments are not routinely made for non-7 emergency work. The percentage of appointments met on time for meter exchange work is a 8 current SQI and historical results are summarized as follows:

- 9 2010: 94.2%
- 10 2011: 96.5%
- 11 2012: 96.5%
- 12
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- 26.11 Please provide the average time a customer was required to wait for a non
 - emergency appointment for each of 2010-2012.

18 **Response:**

Non-emergency appointments are limited to meter exchange activities. Customers can choose
an AM or PM four hour appointment window. On average, for the 2010-2012 time periods,
customer service technicians met the appointment window 95.7% of the time.

The Company does not track the average time a customer was required to wait for a nonemergency appointment. If the assigned technician is unable to meet the appointment window, usually due to having to respond to an emergency call (i.e. gas odour , hit line, fire, etc.), either the technician or the dispatcher will call the customer to reschedule the meter exchange or reassign the work to another resource who can complete the work.



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27.0 Reference: Exhibit B-1, FEI Application, Section B-6.7.2, Off Ramps

- Preamble: In Section B-6.7.2 of its Application, FEI indicates an off ramp if ROE
 exceeds or drops below the authorized ROE by 200 basis points. The
 BCPSO requires information to understand the proposed off ramps.
 - 27.1 Please fully explain whether the ROE used for determination of off ramps is before or after earnings sharing.

8 **Response:**

- 9 The ROE used for the determination of the off-ramp is after earnings sharing. This is explained 10 in Section B6.7.2.1 of the Application:
- "FEI is proposing that the PBR Plan be reviewed if the post-sharing achieved ROE of
 the Company exceeds or drops below the allowed ROE by 200 basis points in any single
 year of the PBR term."

14

- 15 This approach is the same as the one that was in place during the 2004 PBR Plan, although the 16 off-ramp after-sharing ROE in that case was 150 basis points above or below the allowed ROE.
- 17
- 18
- 19 20

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27.2 Please provide the actual and authorized ROE for FEI for each of 2008-2012.

22 <u>Response:</u>

Please refer to the table below which provides the actual and allowed ROEs for FEI from 2008through 2012.



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	FEI ROE				
	<u>Allowed</u> (a)	<u>ctual Pre-</u> <u>ESM [</u> (b)	<u>Actual</u> Post-ESM ¹ (c)		
2008	8.62%	10.64%	9.63%		
2009	8.99%	11.89%	10.44%		
2010	9.50%	9.42%	N/A		
2011	9.50%	10.15%	N/A		
2012	9.50%	10.12%	N/A		

Notes:

 1 Post-ESM only applicable for the years when FEI was under PBR (2004 - 2009)

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28.0 Reference: Exhibit B-1-1, FEI Application, Appendix D-1

- **Preamble:** In Appendix D-1 of its Application, FEI provides a Black and Veach (B&V) regarding PBR in other jurisdictions.
- 28.1 On page 2 of Appendix D-1, B&V provide the five principles of the Alberta Utilities Commission regarding PBR. Please fully explain whether B&V agrees with each of these principles. To the extent B&V agrees with the AUC principles, please explain how the FEI PBR plan meets or satisfies these principles.

9 Response:

10 B&V provides the following response.

Please refer to the response to BCUC IR 1.2.2. There is also a discussion of these issues in 11 12 Appendix D-1 pages 45-47. B&V believes that all of the general principles and objectives that 13 have been articulated in testimony, reports and academic literature are relevant to and inform 14 the discussion of any PBR Plan. We also believe that the principles articulated by FEI represent 15 the most complete set of standards for assessing the FEI plan because they address the 16 specifics of the fourth AUC principle related to unique characteristics and circumstances of FEI. Having said all of this the goal of the FEI plan in our view was to satisfy the principles articulated 17 18 in the testimony supporting the Plan as filed. With respect to the AUC Principles, B&V offers 19 the following comments:

- Principle 1: A PBR plan should, to the greatest extent possible, create the same efficiency incentives as those experienced in a competitive market while maintaining service quality.
- <u>Comment:</u> The AUC correctly recognizes that even a comprehensive PBR Plan cannot
 match the efficiency of a competitive market. Having recognized that goal, B&V believes
 that the principle offers a reasonable basis for assessment of the plan elements but care
 must be taken to strike a balance with other plan objectives such as Principle 2.
- 27
- **Principle 2**: A PBR plan must provide the company with a reasonable opportunity to recover its prudently incurred costs including a fair rate of return.
- 30 <u>Comment:</u> This is a fundamental principle of regulation and any form of regulatory policy
 31 PBR or Cost of Service must meet this principle.
- 32
- Principle 3: A PBR plan should be easy to understand, implement and administer and should reduce the regulatory burden over time.



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1 <u>Comment:</u> This principle is a useful concept and reasonable principle. It is possibly a 2 fundamental benefit of PBR over cost of service regulation when coupled with the 3 potential for productivity improvements and a lower rate trajectory.

4 5

6

- **Principle 4**: A PBR plan should recognize the unique circumstances of each regulated company that are relevant to a PBR design.
- Comment: This principle requires that plans be customized on a variety of dimensions.
 The AUC did not follow this principle in adopting a single plan for gas and electric utilities
 and only provided a single accommodation through the use of a different cap revenue
 or price for the two industries subject to the plan.

11

- Principle 5: Customers and the regulated companies should share the benefits of a
 PBR plan.
- 14 <u>Comment:</u> This is only a partial description of the fundamental principle related to 15 stakeholders. The AUC did not follow this principle except in a limited sense because 16 the AUC did not adopt earnings sharing so the only benefit to customers during the 17 period of the plan was the stretch factor.

18

B&V notes that in terms of the AUC principles the FEI PBR Plan more closely satisfies these
 principles from the AUC than does the plans the AUC adopted. FEI's successful prior PBR
 experience is a factor that facilitates modifications that improve the overall scope of the Plan.

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- 28.2 Please fully explain whether FEI agrees with the five principles of the AUC.
- 26

27 **Response:**

FEI agrees with the essence of the AUC's five principles as discussed in the responses to BCPSO IRs 1.11.3 and 1.28.1. FEI believes that its proposed principles are the most complete set of standards for assessing FEI's PBR plan and are applicable in practice.



129.0Reference:Exhibit B-1, FEI Application, Section D1, Financing and Return on2Equity

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29.1 Please provide a table similar to Table D1-1 that contains actual 2010-2012 average 30 year Government of Canada for each year, the indicative spread for each year, and the actual FEI issues of long term debt for each year.

7 <u>Response:</u>

- 8 The information for 2010 through 2012 has been provided below. FEI only issued one long term
- 9 debt series during those years. Series 25 was issued on December 9, 2011.

	2010	2011	2012	FEI Series 25 Issue ¹
Indicative Spread	1.44%	1.46%	1.39%	1.62%
30 Yr GOC	3.77%	3.30%	2.44%	2.68%
New Issue Rate	5.22%	4.76%	3.83%	4.30%

Source: CIBC Capital Markets

Notes: ¹ - Per Pricing Supplement dated December 6, 2011

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As indicated in the Application on page 255, FEI anticipates issuing long term debt in each of 2015, 2016 and 2017. The interest rates for those issues will be reforecast in the annual reviews in the preceding year. Any variance between the actual interest rate at which the debt is issued and the forecast interest rate will be captured in the Interest Variance deferral account and returned to or recovered from customers in future years.

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- 20 29.2 On page 255, line 15, FEI indicates that forecasts are based on available 21 projections from Canadian Chartered Banks. Please provide the source for the 22 forecast 30 year Government of Canada Bonds.
- 24 **Response**:
- 25 Forecasts for the 30 year Government of Canada Bonds were provided by the following banks:
- Toronto Dominion
- Bank of Montreal
- Scotiabank



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- 1 CIBC
- 2 National Bank
- 3 Royal Bank of Canada



Columbia Pensioners' and Seniors' Organization *et al* (BCPSO) Information Request (IR) No. 1

1 30.0 Reference: Exhibit B-1, FEI Application, Section D2, Taxes

- 2 3
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30.1 Please fully discuss FEI's awareness of previous income tax rulings around the treatment of indirect costs, commonly known as Rainbow or Candarel adjustments.

6 **Response:**

FEI interprets the references to "Rainbow or Candarel" as references to the following income taxcases:

- 9 1. Canderel Ltd. v. Canada, 1998 CarswellNat 81 (Supreme Court of Canada); and
- 10 2. *Rainbow Pipe Line Co. v. R.*, 2002 CarswellNat 1378 (Federal Court of Appeal).

11

FEI is aware of the framework set out in Canderel for computing income for tax purposes and in particular the analysis used for determining if and when expenditures are deductible. In addition, FEI is aware of the decision in Rainbow and the considerations to be taken into account in determining whether a particular expenditure should be capitalized or expensed for income tax purposes. These considerations are taken into account in the calculation of FEI's income for tax purposes.

18 By way of an example, during 2010 FEI undertook a review of its tax treatment of removal costs 19 to determine whether all or a component of these costs could be deducted for tax purposes in 20 the year incurred. Prior to 2010, FEI's removal costs were capitalized to Undepreciated Capital 21 Cost (UCC) for income tax purposes. As a result of the company's review, it was determined 22 that costs classified as "removal costs" for accounting purposes could reasonably be deducted 23 for income tax purposes, as opposed to adding the costs to UCC. Beginning with the 2010 tax 24 return, FEI has deducted removal costs for tax purposes. Because this review was not 25 completed in time to include the related tax benefits in rates for 2010 and 2011, the company 26 deferred 2010 and 2011 tax benefits totalling roughly \$5.3 million to the Tax Variance account 27 and returned these to customers in 2012. It is also worth noting that because of the judgment 28 involved in making these determinations, it is always possible that the Canada Revenue Agency 29 would take a different view than the company in respect of the deductibility of certain 30 expenditures.

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30.2 Please fully explain any reviews, challenges, or appeals that FEI is aware of or contemplating, that would see FEI income taxes related to previously filed returns change materially.

5 **Response:**

FEI is not aware of or contemplating any reviews, challenges or appeals that would see FEI
income taxes related to previously filed returns change materially. As noted on page 261 of the
Application:

9 "At any time, FEI can face changes in tax laws or accepted assessing practices in 10 respect of Federal income tax, Provincial income tax, Federal or Provincial sales taxes 11 or any other tax that may be imposed. As discussed in Section D4, FEI will continue the 12 approved deferral account treatment to capture the impact of changes in tax laws or 13 accepted assessing practices, audit reassessments in respect of any tax year, and 14 impacts on taxes of changes in accounting policies, at Federal, Provincial, Municipal or 15 any other level of jurisdiction."

16

17 Consistent with past practice, FEI records significant assessments in the Tax Variance Deferral18 Account, for future refund to or recovery from customers.

19

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- 30.3 In Section D2.3, FEI indicates that its O&M and Capital include costs of the
 Carbon Tax on fuel used for its own use. Further, FEI indicates that there are no
 announced changes to the Carbon Tax rates. Please fully explain why costs
 related to the carbon tax for FEI own use should be inflated by the PBR formula.
- 26

27 Response:

FEI has proposed an O&M and capital formula that is intended to set the levels of these costs to be included in delivery rates. It is not intended that each specific item within the base O&M and capital numbers will in actual fact increase at the formula amount, but rather that the costs are managed as a whole at or below the formula level.

The carbon tax is levied on the fuel that is used to operate compressors, line heaters, motor vehicles and space heating. It is likely that the amount of fuel used to operate these items will increase during the PBR Period, and that carbon tax costs will increase as a result. However, as with any other O&M or capital item, the rate of increase is not intended to be exactly the same as the PBR formula.



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1 For context, FEI notes that the total amount of carbon tax paid on fuel used for its own use on 2 an annual basis and included in its O&M and capital base is approximately \$500 thousand

2 an annual basis and included in its O&M and capital base is approximately \$500 thousand.

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30.4 On page 261, FEI includes Table D2-2. There is a line related to "internal labour/salaries". Please fully explain how PST is applicable to internal labour and salaries.

9 10 <u>Response:</u>

The line titled "internal labour/salaries" is the internal labour and salary costs that FEI has incurred and charged to the PST project to implement the transition back to BC PST and is not PST on "internal labour/salaries". PST is not applicable to internal labour and salaries and no PST on internal labour & salaries has been included in the amount shown on this line.



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1 31.0 Reference: Exhibit B-1, FEI Application, Section D3, Accounting Policies

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31.1 Please explain FEI's views on whether the BCUC is bound by accounting pronouncements, such as US GAAP or IFRS, in setting regulatory accounting and reporting requirements, and in setting revenue requirement.

6 **Response:**

FEI has interpreted "accounting pronouncements", as used in this question, to mean a set ofaccounting principles, such as US GAAP or IFRS.

9 While the BCUC is not bound by US GAAP or IFRS, the BCUC Uniform System of Accounts alludes to rate-regulated utilities applying generally accepted accounting practices and 10 11 principles. Consistent with the Uniform System of Accounts, FEI believes that the BCUC should 12 follow the only established system of generally accepted accounting principles relevant to rate-13 regulated utilities, which is US GAAP. The use of US GAAP for setting regulatory accounting 14 and reporting requirements and setting revenue requirements was approved pursuant to 15 Commission Order G-117-11 for the Fortis BC Utilities Application to Adopt US GAAP effective 16 January 1, 2012 and further reiterated in Section D3.1 of the Application.

17 The adoption of US GAAP for regulatory purposes beginning in 2012 has allowed for the 18 continuation of both transparency and comparability between regulatory and external financial 19 reporting since US GAAP allows for regulated entities to recognize regulatory assets and 20 liabilities under ASC 980, *Regulated Operations*, while IFRS does not currently have existing 21 standards that permit similar treatment.

22 Additionally, FEI believes that the same set of accounting principles should be used for 23 regulatory purposes as what's used for external financial reporting purposes so that the 24 underlying economic substance of the Company's operations is appropriately reflected. If the 25 BCUC set accounting requirements that differed from what was used to account for the same 26 transaction for external financial reporting purposes, this would result in the Company having to 27 maintain two sets of accounting records which would result in a significant amount of work and 28 cost to the Company and customers and decrease the relevance of the external financial 29 statements. Furthermore, adopting the same set of accounting principles for financial reporting 30 and regulatory reporting will enhance both transparency and comparability between regulatory 31 and external financial reporting.



Information Request (IR) No. 1

1 32.0 **Reference:** Exhibit B-1, FEI Application, Section D 3.3 Depreciation Rates and 2 Methodology

32.1 Please confirm that FEI will not change depreciation or depreciation related rates during the term of the PBR, without explicit Commission approval. If not confirmed, please fully explain.

7 Response:

8 Confirmed that FEI will not change depreciation rates during the term of the PBR without 9 Commission approval. Regarding changes in depreciation rates, please refer to page 267 10 Section D3.3 Depreciation Rates and Methodology of Exhibit B-1 where FEI indicated that it:

11 "... will provide an updated depreciation study during the term of the PBR Period and 12 anticipates that, subject to Commission approval, any updated depreciation rates would be implemented during the term of the PBR." 13

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Regarding changes to the depreciation expense amounts, depreciation expense varies from 15 16 year to year based on the capital amounts that drive the expense. However, FEI would not 17 propose any changes to the method used to calculate depreciation expense during the term of the PBR without prior Commission approval. 18



5

33.0 Reference: Exhibit B-1, FEI Application, Section D3.5 Asset Losses

3.1 In section D3.5.1, FEI indicates that no action is required for assets not in use.
Please fully explain the process FEI would envision, should a material asset arise
that is no longer in use during the term of the PBR.

6 **Response:**

During the term of the PBR, should an asset of material value be determined to be no longer
"used and useful" and have no expectation of future use, the asset will be retired following the
usual retirement process as discussed in section D3.5.1 of Exhibit B-1.

10 Please refer to the response to BCUC IR 1.186.2 for further discussion of "used and useful"

11 considerations.



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1 34.0 **Reference:** Exhibit B-1, FEI Application, Section D3.6, Shared and Corporate 2 Services.

3

Please reconcile the Total Allocated to FEI on Schedule D3-4 to Schedule C3-2. 34.1

4 5 Response:

6 The amount "Total Allocated to FEI" shown in Table D3-4 represents the total amount of O&M that is included in the shared services pool that is not allocated to either FEVI or FEW and 7 8 therefore remains in FEI. The O&M included in Table C3-2 represents the total O&M for FEI 9 (including amounts that are not subject to sharing), broken down by department. The following 10 table shows the total FEI O&M, the amount that is not subject to sharing, and the amount of shared O&M that remains in FEI after allocation to FEVI and FEW. The first column in the table 11 12 is taken from the 2013 Projection column of Table C3-2 and the second column is a breakdown 13 of the amount of shared O&M that remains in FEI, by department.

(In thousands of \$)	2013		
	Projection	Shareable	Non-Shareable
Operations	63,509	10,016	53,493
Customer Service ¹	41,825	9,765	32,060
Energy Solutions & External Relations	19,215	9,786	9,429
Energy Supply & Resource Dev	4,000	1,903	2,097
Information Technology	24,217	17,425	6,792
Engineering Services & PM	15,456	9,114	6,342
Operations Support	11,867	6,765	5,103
Facilities	9,249	1,061	8,188
Environment Health & Safety	2,681	2,495	186
Finance & Regulatory Services	13,279	7,297	5,982
Human Resources	8,458	7,357	1,101
Governance	7,935		7,935
Corporate	(358)	730	(1,088)
	221,333	83,713	137,620
1 2013 Projection excludes Customer Service deferred O&M			

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34.2 Please confirm that there have been no changes to the allocations or methodologies for costs from Fortis Inc, Fortis Utilities Holdings Inc, or any other Fortis Entity to FEI from those previously approved by the BCUC. If not confirmed, please fully explain each change.

6 **Response:**

7 Except as described below, FEI confirms there have been no changes to the allocation
8 methodologies for allocating costs from Fortis Inc., FortisBC Holdings Inc. or any other Fortis
9 entity.

10 Starting in 2014 the Executive cross charges to and from FortisBC Inc. (FBC) are expected to 11 use the Massachusetts Formula during the term of the PBR, instead of management estimates 12 of time allocations as used in the recent past. The Massachusetts formula, as described in the 13 Application, is a composition allocator and using this formula mimics the amount of time and 14 effort that each of the executives spend, on average on each of the entities. Allocating the 15 executive pooled costs based on the Massachusetts Formula will allow for a more streamlined 16 and efficient approach of allocating the costs, while ensuring an appropriate and transparent 17 allocation methodology.

In the course of responding to this response, FEI realized that the Company did not specifically request approval for the use of the Massachusetts formula with respect to Executive Management time. FEI will file a revision to the draft order to reflect this specific approval as part of its next Evidentiary Update.

- 22
- 23
- 24
- 25 34.3 Please confirm that there will be no change to the allocation methodologies 26 during the term of the FBR. If not confirmed, please fully explain.
- 27
- 28 <u>Response:</u>
- FEI confirms that it has no plans to change the allocation methodologies with respect to the existing shared and corporate services over the term of the PBR.
- 31
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34.4 Please fully explain how the impact of acquisitions or divestitures by Fortis Inc, Fortis Utilities Holdings Inc, or any other Fortis entity will be dealt with during the term of the PBR.

5 **Response:**

Acquisition or divestitures by Fortis Inc. or FortisBC Holding Inc. have not been forecast to occur during the term of the PBR. These types of events are very difficult to forecast and so none of these type of events have been included during the term of the PBR. If these types of activities do occur during the term of the PBR, FEI does not propose to adjust the formula-driven O&M that is included in rates each year; these types of impacts are considered as part of the overall challenge FEI has in meeting its O&M targets under PBR.

12 13 14 15 34.5 On lines 4-5 of page 285, FEI indicates that costs are allocated from Fortis Inc. 16 based on the "assets by subsidiary driver." 17 18 34.5.1 Please provide a working paper in support of the allocation of costs from 19 Fortis Inc. to Fortis Holdings Inc for the years 2010, 2011, 2012, and 20 2013. 21 22 Response: 23 The allocation of costs from Fortis Inc to FortisBC Holdings Inc for 2010, 2011, 2012 and 2013

24 is as follows:



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Fortis Inc.							
Recoveries Billings							
(000's)				2	2010		
	Assets	Assets	Actual	Actual	Actual	Actual	Actual
						Net Pole	Total (net) costs
	Actual	Total	Allocation	Recoveries	FP Mgmt Fee	Revenue	being recovered
			%	\$000's	\$000's	\$000's	\$000's
FortisBC Holdinas Inc.	5.142.273	11.347.509	45.32%	5.871	(680)	(653)	4.539
Less: non-regulated costs	included in all	location from	Fortis Inc	-,-	(/	(/	(738)
							3,801
					0011		
	Assets	Assets	Actual	Actual	Actual	Actual	Actual
						Net Pole	Total (net) costs
	Actual	Total	Allocation	Recoveries	FP Mgmt Fee	Revenue	being recovered
			%	\$000's	\$000's	\$000's	\$000's
FortisBC Holdings Inc	5 190 097	11 607 511	44 71%	6 295	(671)	(152)	5 472
Less: non-regulated costs i	included in all	location from	Fortis Inc	0,200	(0/1)	(102)	(444)
							5.028
				2	2012		
	Assets	Assets	Actual	Actual	Actual	Actual	Actual
						Net Pole	Total (net) costs
	Actual	Total	Allocation	Recoveries	FP Mgmt Fee	Revenue	being recovered
			%	\$000's	\$000's	\$000's	\$000's
FortisBC Holdinas Inc.	5.493.264	12.759.067	43.05%	6.241	(646)	(19)	5.576
Less: non-regulated costs	included in all	location from	Fortis Inc	-,	(/	(-7	(558)
							5,018
				2	2013		
	Assets	Assets	Pro Forma	Pro Forma	Pro forma	Actual	Pro Forma
						Net Pole	Total (net) costs
	Actual	Total	Allocation	Recoveries	FP Mgmt Fee	Revenue	being recovered
			%	\$000's	\$000's	\$000's	\$000's
Eartis BC Holdings Inc.	5 562 942	13 264 279	41 0.40/	5 002	(620)		E 074
Less: non-regulated costs i	1 3,302,042	13,204,270	Fortis Inc	5,905	(029)	-	(266)
LUSS. HUIFIEgulated USIS							4 408

 34.5.2 Please fully explain why the Massachusetts formula is not used for the allocation of Fortis Inc. Costs.



1 Response:

2 The Massachusetts formula uses three main drivers for allocating costs, operating revenue,3 payroll and average net book value of capital assets plus inventories.

Fortis Inc. does not use the Massachusetts method for allocating its costs for the followingreasons:

- 6 Revenue is not a representative cost driver as revenue in the Fortis utilities is different 7 and not comparable. For example, certain utilities such as FortisAlberta, may only 8 charge customers for distribution services, which would result in a disproportionately low 9 allocation of costs to this utility, while other utilities would receive a disproportionately 10 high allocation of the costs as revenues include both distribution services and the cost of 11 energy supply. This is particularly exaggerated in periods when customer rates and 12 related revenues reflect the pass-through to customers of rising purchased power, gas 13 and fuel prices.
- Payroll is also not an appropriate cost driver as the nature of the services from Fortis Inc.
 (i.e. services limited to equity and access to capital market, Governance, and to a lesser
 extent Financial Reporting and Risk Management/Insurance) to its subsidiaries is not
 related to the payroll costs in its utilities.
- 18

Instead of the Massachusetts method, Fortis Inc. believes that the Asset allocation method, in conjunction with Fortis Properties' management fee (please refer to the response to COC IR 1.7.2 for discussion), is the more appropriate way to allocate its operating costs to its subsidiaries. The choice of the Asset allocation method is reflective of the autonomy with which Fortis Inc.'s regulated utilities operate, as the nature of the services being provided by Fortis Inc. (see above discussion) is more correlated with the net investment required of Fortis Inc. in its utilities.

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- 34.5.3 Please provide a table that demonstrates how costs would be allocated from Fortis Inc. to Fortis Holdings Inc for the years 2010, 2011, 2012, and 2013, using the Massachusetts formula, with the costs of natural gas or electricity excluded.
- 32 33



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1 Response:

- 2 The table below compares the allocation of the Fortis Inc. (FI) fee to FortisBC Holdings Inc.
- 3 (FHI) using net assets compared to using the Massachusetts formula. In both cases, the fee is
- 4 before management fee exclusions for items like defined benefit supplemental plan costs and
- 5 stock compensation costs. The results of the two methods are comparable with only slight
- 6 differences.
- 7 Please also refer to BCPSO 1.34.5.2 regarding the use of the Massachusetts formula.

(000's)			Asset Alloc	atic	n Model		
			Actual				Estimate
	2010		2011		2012		2013
Net operating costs recoverable	\$ 10,015	\$	12,239	\$	12,953	\$	12,575
FHI rate using Assets Allocation	45.32%		44.71%		43.05%		41.94%
Net operating costs allocated to FHI	\$ 4,539	\$	5,472	\$	5,576	\$	5,274
		Μ	assachusetts	For	mula Model	_	
			Actual				Estimate
	2010		2011		2012		2013
Net operating costs recoverable	\$ 10,015	\$	12,239	\$	12,953	\$	12,575
FHI rate using Massachusetts Formula Allocation	44 30%		13 27%		12 54%		12 21%
	44.30%		43.2770		42.04 /0		42.24 /0
Net operating costs allocated to FHI	\$ 4,437	\$	5,296	\$	5,510	\$	5,312
Difference - FHI	\$ 102	\$	176	\$	66	\$	(38)



1 35.0 **Reference:** Exhibit B-1-1, FEI Application, Appendix F2a, KPMG Study

2 Preamble:

In Section,

3 35.1 In Table 5.5 of the KPMG study, the total FI recoverable operating costs are 4 \$12.575 million. On Table 5.7 of the KPMG report, \$5.273 million of the \$12.575 5 million is allocated to FHI. In Table 6.5, KPMG reports FHI costs of \$12.423 6 million. Please provide a reconciliation that clearly demonstrates the

8 Response:

7

9 Table 5.5 shows the total **Fortis Inc**. costs before any exclusion for specific items with a total of 10 \$12.575 million. Table 5.7 shows the same total of \$12.575 million split between the allocation 11 to FHI and to other Fortis entities. In this table, the allocation to FHI is estimated at \$5.273 12 million. However, some costs are excluded from the allocation to the gas utilities. These 13 exclusions are identified in Table 6-2, leading to a reduction of the initial \$5.273 million 14 allocation to \$4.408 million. This allocation of \$4.408 million from Fortis Inc. to FHI is reflected 15 in Table 6-5 as the Fortis Inc. Management Fee.

16 Table 6-5 includes the **Fortis Inc**. allocation of \$4.408 million plus the operating costs contained 17 in FHI that are allocated to the FEU. The sum of these costs totalling to \$12.423 million are 18 what is allocated to the gas utilities. The details of the allocation to the gas utilities are shown in 19 Table 6-7.

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In Table 6.2 of the KPMG report, there is a management fee of \$5.273 million. 35.2 Please fully explain how management fees are included in the costs of FI, and how the recovery of management fees are included in forecast costs of FI.

27 Response:

28 To clarify, these costs are not included in FI's costs. They are instead allocated from FI to FHI 29 via a management fee charge.

30 Table 6-2 shows the allocation of management fees from Fortis Inc. (FI) to the parent company 31 of the gas utilities, FortisBC Holdings Inc. (FHI). The "management fee" includes the costs as 32 outlined in Table 5.7 and further described in Table 5.2. As discussed in the response to

33 BCPSO IR 1.35.1, due to exclusions outlined in Table 6-2, the \$5.273 million is reduced to

34 \$4.408 million. It is this amount that is allocated from Fortis Inc. to FHI in Table 6.5.



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- 1 FHI then allocates its costs, including the allocation from Fortis Inc., to the gas utilities as shown
- 2 in Table 6-7.



1 2	36.0	Refere	ence:	Exhibit B-1-1, FEI Application, Appendix F2b, FEI-FEH Corp Services Amending Agreement No 2, effective January 1, 2014.
3		Pream	ble:	In 2 of the amending agreement, proposes:
4 5 6 7 8				FEI agrees to pay to FHI for the Services to be provided and for a proportionate share of the common expenses incurred by FHI such as shareholder expenses and director compensation at an amount, on a take-or-pay basis, to be agreed upon in writing between FEI and FHI from time to time,"
9				The BCPSO requires an understanding of the nature of take or pay.
10 11 12 13		36.1	Please includii used.	fully explain what costs are included in this take or pay provision, ng an estimate of the costs that are to be charged to FAI if no services are
14	<u>Respo</u>	onse:		
15 16 17	All the irrespet that th	costs l ective of e amou	listed in f the am nts are	Table D3-6 of the Application are included in the take or pay provision, nount of the services that are used by FEI. A take or pay contract means charged irrespective of the amount of services used in that year.



Reference: Exhibit B-1, FEI Application, Section D4, Deferrals 1 37.0

- In Section, 2 Preamble:
- 3 37.1 In Section D4, FEI proposes a deferral for its 2014-2018 PBR Application costs with an amortization of 5 year. Please fully explain how costs related to annual 4 5 reviews, and the midterm review will be treated. Will the costs be included in the 6 deferral account? If not, why not, if so, how will the costs be amortized?

8 Response:

- 9 FEI intends to add costs related to annual reviews and the midterm review to the 2014-2018
- PBR Application costs deferral account for recovery from customers, since they are all part of 10
- the costs of the regulatory process for the Application. 11

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Page 80

1 38.0 **Reference:** Exhibit B-1, page 86, Table C1-1, Forecast Total Energy

2

Demand 2014-18

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Preamble: The referenced page states:

- 4 The following Table C1-1 shows FEI's total energy demand forecast for 5 the PBR Period, and illustrates that the Company is expected to experience a slight increase in consumption. It should be noted that the 6 7 forecast demand in this table does not include new customer additions or 8 new energy demand related to CNG and LNG service that is presented in 9 Section C1.4.6 and Appendix H. However, existing natural gas for transportation customers under Rate Schedule 6 have been included as 10 11 part of the Industrial customer demand.
- 12 38.1 Please confirm that the data in this table assumes that the number of customers 13 in each rate class have been held constant. If unable to so confirm please 14 explain fully.

16 **Response:**

15

17 The number of customers in residential and commercial rate classes is not held constant. For 18 industrial rate classes, no customer additions are assumed.

19 FEI has used the same forecast methodology for the past 10 years, which can be summarized as follows: 20

- 21 1. Forecast the UPC by considering historical normalized UPC values for residential and 22 commercial rate classes.
- 23 2. Forecast customer additions by considering the Conference Board of Canada (CBOC) forecast for residential and historic customer additions for commercial customers. 24
- 25 3. Survey all industrial customers for their individual 5 year forecasts. Amalgamate the 26 results.
- 27 4. The energy forecast is the product of 1) and 2), added to 3), from above.

28

29 The movement in the overall energy forecast is a function of changes in UPC as well as 30 changes in customer count.



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38.2 If the number of customers in each rate class has been held constant, please confirm that the data displays UPC trends. If unable to so confirm please explain fully.

6 **Response:**

- 7 Please refer to the response to BCPSO IR 1.38.1.
- 8 9
- 1138.3Please confirm that the decline in residential demand is due to EEC and use of12higher efficiency appliances. If unable to so confirm please explain fully.

13 14 **Response:**

FEI's short term UPC forecast methodology is consistent with past practice and has historically provided good results. While FEI's analysis of normalized short-term historic data is appropriate for short-term forecasting and provides an accurate overall picture of "what" happened, it is unable to tell us "why" it happened, except that the decline in residential demand is not a result

- 19 of the weather.
- 20 However, FEI believes that the following factors have affected the decline in residential demand:
- Improved efficiency of the appliances installed and used within the home for heating, hot water, cooking and decorative (fireplaces);
- Behavioural changes by the people within the home, leading to more efficient use of appliances;
- A trend towards more multi-family homes, which typically have less demand than single family homes;
- BC Government Policy after January 2009 requiring furnaces to be 90 percent efficient or higher;
- Changes to building codes leading to more efficient building envelopes;
- 30
- 31 There may also be additional factors.
- 32



2

3

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38.4 Is the increase in commercial demand due to expected economic growth of the existing customers?

4 <u>Response:</u>

5 The forecast increase in commercial demand is the result of both the addition of new 6 commercial customers and increased consumption from existing customers. As shown in 7 Figure C1-17, FEI is forecasting an additional 388 commercial customers in 2014. Figures C1-8 12 through 14 show the commercial UPC forecasts for rate schedules 2, 3 and 23, respectively. 9 All three show an increasing UPC for 2014. The increases to both net customer additions and 10 UPC results in the increase shown for the commercial demand forecast.

11 The forecast methodology does not try to determine "why" customers are consuming more or 12 less. The increases in average consumption from existing customers could be the result of their 13 economic growth or some other factor, such as fuel switching.

- 14
- 15
- . .
- 16
- 38.5 Please explain why industrial demand increases in 2015 and then falls backdown thereafter.
- 19

20 **Response:**

Consistent with the forecasting methodology in place for over 10 years, the forecast of demand for industrial customers is based entirely on surveys gathered from the customers. The industrial customers themselves have the most precise understanding of their own future energy requirements and therefore are best able to provide an accurate forecast. This methodology has been reviewed and approved by the BCUC for over a decade.

The reason the demand increases to 2015 and then falls back down thereafter, is because customers themselves have forecasted an increase in demand to 2015 and a slight reduction thereafter.

However, it is important to note that for the purpose of this Application, only the forecast for 2014 is of relevance. FEI will forecast 2015 later in 2014 via a survey of industrial customers. This survey will then be used to determine expected volumes and revenues for these rate classes for 2015. This process will be repeated for each year of the PBR. Therefore, the volumes that are shown in this filing for the period beyond 2014 are only illustrative and do not form the basis of any future volume or revenue changes and subsequent revenue requirement.



39.0 Reference: Exhibit B1, page 88, Figure C1-2, Total Energy Demand

- 39.1 Please confirm that the number of customers in each rate class has been held constant for this figure. If unable to so confirm please explain fully.
- 3 4

1

2

5 **Response:**

- 6 Please refer to the response to BCPSO IR 1.38.1.
- 7



Reference: 1 40.0 Exhibit B-1, page 88, Table C1-2, Net Customer Additions

40.1 Please confirm that the net additions shown in this table are as at year end. If unable to so confirm please explain fully.

5 Response:

6 Confirmed. The net additions shown in the table are as at year end (they reflect a full year of net additions). As such, a net addition for a particular year is the difference between total customer 7 8 count at the end of the prior year and the count at the end of the current year.

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40.2 Please provide a companion table that shows the total number of customers in each rate class as at year end.

15 Response:

16 The following table shows the total customers by rate class at year end.

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
RATE1	753,735	760,559	765,553	759,712	764,028	768,622	773,577	778,662	783,634	788,440
RATE2	75,986	76,028	76,437	72,235	72,591	72,922	73,227	73,524	73,835	74,139
RATE3	4,841	4,882	4,863	4,675	4,577	4,577	4,577	4,577	4,577	4,577
RATE23	1,348	1,406	1,433	1,520	1,577	1,634	1,702	1,763	1,824	1,887
RATE4	2	7	5	11	11	11	11	11	11	11
RATE5	282	234	224	216	216	216	216	216	216	216
RATE6	29	24	20	16	14	14	14	14	14	14
RATE7	4	3	2	3	3	3	3	3	3	3
RATE22B	4	4	4	4	4	4	4	4	4	4
RATE22B_SP	1	1	1	1	1	1	1	1	1	1
RATE22	22	21	21	23	23	23	23	23	23	23
RATE22_BY	10	8	7	6	6	6	6	6	6	6
RATE22_SP	1	1	1	3	3	2	2	2	2	2
RATE22A	8	9	9	9	9	9	9	9	9	9
RATE25	597	550	503	502	487	487	487	487	487	487
RATE25_BY	7	7	7	6	6	6	6	6	6	6
RATE27	99	101	98	98	95	95	95	95	95	95
Total	836,976	843,845	849,188	839,040	843,651	848,632	853,960	859,403	864,747	869,920

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40.3 For forecasting purposes, does FEI assume that all customers are added midyear for each year of additions? If not, please provide FEI's assumptions in this regard.

6 **Response:**

No, FEI forecasts total additions for the year and then distributes the total among the months
using seasonality factors specific to each region and rate class. The seasonality factors are
calculated based on historical net addition patterns. The Forecasting Information System (FIS)
model performs all calculations at the monthly level and then rolls up the totals for reporting.

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 14 40.4 Please provide a table showing forecasted number of customers at mid-year for
 15 each year of the proposed PBR plan.
- 16

17 Response:

- 18 The following table shows the forecasted number of customers as of June for each year of the
- 19 proposed PBR plan.

	As of June	2013	2014	2015	2016	2017	2018
	Residential	760,922	765,316	770,013	775,004	780,058	784,983
	Commercial	78,307	78,638	79,029	79,405	79,760	80,135
	Industrial	912	911	911	911	911	911
	Grand Total	840,141	844,865	849,953	855,320	860,729	866,029
} }	- Plazea provida a t	abla chow	ing foros			tual aum	bor of o
40.5	rate class historica	ally for all c	of the yea	ars for w	hich dat	a is avai	lable.
⁷ <u>Response:</u>							

28 The following table shows the year end accounts by rate class from 2004 through 2012.



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Actual Forecast Forecast Forecast Rate Actual Actual Forecast Actual Forecast Actual 740,954 RATE 1 707,929 703,540 719,356 718,576 728,951 732,131 744,400 748,913 755,539 RATE 2 71,759 71,201 72,962 70,957 73,515 73,200 74,579 74,019 75,701 75,037 RATE 3 5,075 5,568 4,721 5,292 4,769 4,742 4,700 4,332 4,869 4,514 1,030 1,149 1,303 1,306 RATE 23 1,069 1,206 1,047 1,313 1,423 RATE 4 RATE 5 RATE 6 RATE 7 RATE 22 RATE 22 BYPASS RATE 22 SPECIAL RATE 22A RATE 22B RATE 22B SPECIAL RATE 25 RATE 25 BYPASS RATE 27 Rate Actual Forecast Actual Forecast Actual Forecast Actual Forecast 760,559 758,903 765,553 RATE 1 753,735 766,209 763,886 759,712 773,231 RATE 2 75,986 75,638 76,028 77,204 76,437 77,954 72,235 76,126 RATE 3 4,841 4,522 4,882 5,083 4,863 5,191 4,675 4,962 RATE 23 1,348 1,490 1,406 1,319 1,433 1,328 1,520 1,526 RATE 4 -RATE 5 RATE 6 RATE 7 RATE 22 RATE 22 BYPASS RATE 22 SPECIAL

RATE 22A

RATE 22B RATE 22B SPECIAL

RATE 25

RATE 27

RATE 25 BYPASS



Exhibit B1, page 91, SAP Adjustment and Appendix E-4 1 41.0 **Reference:**

2 3 4

5

41.1 Please confirm that ratepayers will be held harmless over the PBR period as a result of the change in customer count methodology. If unable to so confirm please explain fully.

6 Response:

Confirmed. There will be no impact on the sales and transport volumes that are used to set 7 8 customer rates as a result of the SAP adjustment because the overall energy demand remains 9 the same.

- 10 For the forecast years in the PBR, the impact of the SAP adjustment has been carefully
- 11 considered and isolated so as not to impact the UPC or the net additions forecasts. The higher
- 12 UPC in 2012 as a result of SAP adjustment was not considered to be a true trend and was not
- included as part of the modeling analysis for the PBR years. 13



142.0Reference:Exhibit B-1, page 92 and Fig. C1-6, and Appendix E1, Normalized2UPC Lower ML

The referenced page states:

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From the figure above we can see that there is a clear and consistent downward trend in use per customer irrespective of annual weather. The exception is in 2012 when the conversion to the new CIS had the impact of increasing the reported UPC. In rate schedules where a consistent trend is not identifiable a three year average is used.

- 9 42.1 Please provide a list of all the cases for which a three year trend is or has been 10 used for forecasting UPC in any of FEI's service areas.
- 11

12 **Response:**

Preamble:

Regression analysis was carried out for each rate class and region to determine the existence of a statistically significant trend. When the goodness of fit was favorable as well as other diagnostics such as t test statistics, the trend calculated from the regression model was used. Whenever the goodness of fit was not favorable, the average percentage change from 2009, 2010 and 2011 was used. The table below shows the list of all cases for which a three year

18 trend is used (labeled as "Avg"). "Trend" indicates a statistically significant trend.

Region	RS1	RS2	RS3	RS23
LML	Avg	Avg	Avg	Trend
INL	Avg	Avg	Avg	Trend
COL	Avg	Avg	Avg	Trend
RSK	Avg	Avg	Trend	NA

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- 42.2 Please confirm that the three-year average methodology involves taking the three most recent years for which UPC declines are available, applying an unweighted average, and using this average for the forecast for the following year. If unable to so confirm please explain fully.
- 28 **Response:**

29 Confirmed. In the absence of any significant trend, the three year average of percentage 30 changes is applied to the normalized actual UPC from the prior year. The average change from



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1 the recent three years is applied on an un-weighted basis because each year in the analysis is

- 2 assumed to have the equal weight.
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42.3 Does FEI assume that UPC for new additions is the same as UPC for existing customers?

9 **Response:**

10 Yes, we assume that UPC for new additions is the same as UPC for existing customers.

The current methodology does not apply a separate UPC to existing and new customers. The demand from the new customers, whether at the published rate class UPC or some other value, is very small relative to the demand from the rate class as a whole. Specifically, the residential volume from the new customers in 2014 is forecast to be only 0.54% of the total residential volume. Having a separate methodology for such a small customer segment would not lead to any significant change in the overall forecast.

The following pie chart shows the demand from the existing residential customers compared to
the demand from new residential customers when calculated with a single rate class average
UPC.





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- 42.4 Please confirm that in identifying a trend in the data, FEI uses a linear regression methodology. If unable to so confirm please explain fully.

Response:

- Confirmed. FEI uses a linear regression methodology to identify trends in residential and commercial UPC data.

42.5 Please provide summary details of all instances of FEI's identification of UPC trends in the past.

Response:

Please refer to the response to BCPSO 1.42.1. For the UPC rate schedules where analysis suggested a significant trend, more detail is provided below.

Region	Rate Class	Rsquare	Estimate.Index
COL	RATE23	0.89	26.11
INL	RATE23	0.68	21.35
LML	RATE23	0.58	10.03
RSK	RATE3	0.57	30.36

42.6 Please explain why the UPC increases in 2009.

Response:

The data shown in Figure C1-6 is actual normalized use rate per customer for the Lower Mainland. The 2009 data point in question is the actual UPC recorded for that year. Consistent with the trending methodology used to forecast UPC, the forecasts are generated based on a

quantitative approach using historic data directly and without any speculation as to why.



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- To truly understand why the UPC increased relative to 2008, we would have needed to conduct a survey of residential customers to ask them why they used 0.7% more gas in 2009 than in 2008. Such a survey would have been expensive and, since the FIS forecast system does not have the ability to use the results from such a hypothetical survey as an input, the future
- 5 forecasts would not be affected by this additional information.
- 6
- 7
- 8
- 9 42.7 Please provide evidence with respect to the accuracy of the past UPC forecasts 10 for residential and commercial customers, that is, please provide a table showing 11 forecasted versus actual UPC for each customer class for which historical data is 12 available.
- 1314 <u>Response:</u>
- Please see Appendix E3 Forecasting Models Live Spreadsheets for the historical variances
 between the forecast and actual residential, commercial and industrial UPC.



1 43.0 **Reference:** Exhibit B1, page 94, Residential Customer Additions Forecast

- 2 Methodology and page 96, Figure C1-8 3 43.1 Please indicate whether customer additions are forecast on a year-end basis or 4 on some other basis. 5 6 **Response:** 7 Customer additions reflect a full year of additions and therefore the customer addition count is 8 as of the end of the year. 9 Customer additions are forecast using the following method: 10 1. Develop growth rates from the CBOC long term housing starts forecast for both single 11 and multi-family dwellings. 12 2. Apply the growth rates from 1) to the actual year end net additions from the previous 13 year. 14 The annual net additions total is then distributed amongst the months of the year based 15 on historical patterns. 16 4. The monthly account additions are loaded into the FIS model and the model is re-17 calculated. 18 This process has remained unchanged (except for the addition of the single and multi-family 19 dwelling granularity) for the past decade.
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- 23 43.2 Please provide a table showing forecasted versus actual net residential 24 additions, if possible split between single and multi-family dwellings, for each 25 year for which historical data is available.
- 27 **Response:**

28 Please see Appendix E3 Forecasting Models Live Spreadsheets for historical variances between forecast and actual net residential additions. It is not possible to show the historical 29 30 split between single and multi-family dwellings as we did not collect this data in the past.



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Please provide a figure for residential customers similar to Figure C1-8 which is

Response:

43.3



provided for commercial customers.





1 44.0 Reference: Exhibit B1, page 98, RSAM

- 44.1 Please confirm that in calculating RSAM amounts, the forecast customer additions are used. If unable to so confirm, please explain.
- 3 4

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5 **Response:**

6 The RSAM for Rate Schedules 1, 2, 3 and 23 is calculated for each separate Rate Schedule by 7 taking the variance between actual and forecast use per customer (GJ), multiplied by the **actual** 8 number of customers, multiplied by the delivery charge, and then adjusting the balance for 9 income tax. In this manner, only the impact of variances in use rates is captured in the

10 mechanism, and not the impact of variances in customer additions.



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1 45.0 Reference: Exhibit A-3, BCUC IR 1.62.1

45.1 Please provide FEI's understandings with respect to standard statistical practice regarding the number of data points required to identify a trend at a 95% level of confidence.

6 **Response:**

Consistent with standard statistical practice, FEI uses a minimum of 30 data points for the t-test
to be valid in order to establish a confidence level of 95%. This is consistent with the Central

9 limit theorem which states that a sample size greater than 30 would result in a normal

10 distribution to a first approximation. Our trending analysis typically uses 36 data points which

11 meets this minimum requirement.

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1 46.0 Reference: Exhibit B1, page 100, Figure C1-11, Rate Schedule 1 UPC

- 46.1 Please augment Figure C1-11 by adding a line showing the UPC forecasted for each year 2004-12 inclusive.

Response:

6 The following figure is an extension of Figure C1-11 showing the forecasted UPC from 20047 through 2012.





1 47.0 **Reference:** Exhibit B-1, page 107, Figure C1-19, Normalized Residential

Demand

47.1 Please explain why the normalized demand oscillates in the period 2004-2012. Does this indicate an issue or problem with the normalization methodology?

5 6 Response:

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7 No, this does not indicate an issue or problem with the normalization methodology. From the 8 chart, the normalized actual demand fluctuates randomly without any defined cycle or a pattern.

9 The normalization methodology is applied to UPC only. The normalized volume is the product of the normalized UPC and year end customer counts. To understand the effect the normalization 10 method is having we need to consider only the UPC. Like all approximation models, the 11 12 normalization method is not expected to produce a perfectly straight and smooth line.

13 The example below demonstrates how the actual UPC is adjusted through the normalization 14 methodology based on the actual temperature and the 10 year normal temperature for Lower 15 Mainland. In this example aggregate HDDs for the year are used to identify warm and cold 16 years. Larger bars indicate colder years. During warmer than normal years the blue bar will be 17 below the purple bar and normalization adjusts the UPC upwards. Similarly when the actual 18 temperature is colder than normal (and the blue bar is larger than the purple bar) the UPC is 19 decreased after normalization. As the figure demonstrates the normalization method in use at 20 FEI consistently adjusts the actual UPC in the correct direction.

21 The normalized residential demand is then the product of the normalized UPC and total 22 residential accounts.

23 FEI believes that this method, which remains unchanged from previous years, continues to 24 provide good results.



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48.0 Reference: Exhibit B-1, page 109, Table C1-4, Forecasted Demand

48.1 Please provide a revised table showing forecasted demand for 2014-18 that
takes into account the forecasted number of customers and the forecasted UPC
for each class.

6 **Response:**

7 The forecast demand shown in Table C1-4 already takes into account the forecasted number of 8 customers and forecasted UPC for each rate class.

9

1



1 49.0 Reference: Exhibit B1, page 113, Forecast Gross Margin at Existing

2		Rates
3	49.1	Does the refere
4		forecasted UPC
5		these forecaste

Does the referenced figure incorporate both forecasted customer additions and forecasted UPC? If not, please prepare a similar table that incorporates both of these forecasted items over the PBR period.

7 Response:

8 Confirmed. Table C1-8 incorporates both forecasted customer additions and forecasted UPC.

9



1 50.0 **Reference:** Exhibit B1, page 126, M&E Employees

2

Preamble: The referenced page states:

3 4

As a general policy, FEI establishes base salary and incentive compensation targets at the median level of a peer group of companies.

5 6

7

8

50.1 If FEI became aware that the actual M&E base salary and incentive compensation for one or more positions or categories was above the median level of the peer group, would FEI reduce the compensation level to the median?

9 **Response:**

10 FEI's approach to competitive compensation is to target both base and incentive pay at the 11 market median of a peer group. The structure consists of five broad bands with base salaries 12 administered within a range of 80% to 110% of the market median. Salary ranges are reviewed 13 annually to remain market-competitive. There are a variety of positions included in each 14 band. A market median incentive target is established for each band.

15 Within this context if FEI became aware that actual base salary and/or incentive target was 16 above the median level of the peer group for one or more positions, the base salary would, in 17 most cases, be administered such that for positions where actual is above 110% of market 18 median, no further increases to base pay occur. Where unique market conditions exist, 19 variations may be considered, but those circumstances are rare.

- 20 21 22 23 Has the scenario outlined in the previous part occurred in the past? If so, please 50.2 24 provide details of FEI's response. 25 26 **Response:** 27 This scenario has occurred in the past. Please refer to the response to BCPSO IR 1.50.1.
- 28



5

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Reference: 1 51.0 Exhibit B1, page 124, Table C3-2, 2013 Departmental O&M

Re	со	nc	ilia	atio	on
	~~				

3 51.1 Please augment the referenced table by adding a column to show actual 2012 4 expenditures by department.

6 Response:

7 Table C3-2 has been extended to include 2012 actual expenditures.

Table C3-2: 2013 Departmental O&M Reconciliation (\$ thousands)

	Productivity				2013 Deferrals			Accounting Changes		
	2012	2013	(Sustainable	2013	PST	BCUC Fees	Pension/OPEB	Pension/OPEB	Software	2013
	Actual	Approved	Savings)	Projection	(full year)	& Insurance	(O&M portion)	(Retiree portion)	Fees	Base
Operations	59,806	63,189	320	63,509	137		3,667	1,704		69,016
Customer Service ¹	40,737	52,452	(10,627)	41,825	18		1,744	810		44,398
Energy Solutions & External Relations	18,075	18,181	1,034	19,215	23		1,012	470		20,721
Energy Supply & Resource Dev	3,488	3,738	262	4,000	7		295	137		4,440
Information Technology	23,442	25,379	(1,162)	24,217	340		691	321	(1,800)	23,768
Engineering Services & PM	13,599	16,956	(1,500)	15,456	58		1,027	477		17,018
Operations Support	11,038	12,990	(1,123)	11,867	69		802	373		13,111
Facilities	9,563	9,259	(10)	9,249	40		146	68		9,504
Environment Health & Safety	2,481	2,999	(319)	2,681	12		123	57		2,872
Finance & Regulatory Services	12,149	14,184	(906)	13,279	3	923	597	277		15,079
Human Resources	8,610	8,511	(53)	8,458	22		487	226		9,192
Governance	7,366	7,935	-	7,935	-	93	-	-		8,028
Corporate	1,915	230	(587)	(358)	34		13	(5,851)		(6,161)
	212,269	236,003	(14,670)	221,333	762	1,016	10,605	(930)	(1,800)	230,985

- 9 Please note that 2012 Actual is best compared against 2013 Projection as opposed to 2013
- 10 Base. The 2012 Actuals are also shown in Table C3-1.
- 11
- 12

- 13
- 14 51.2 Please provide the amount of Customer Service deferred O&M that is excluded 15 from the 2013 projection.
- 16
- 17 **Response:**
- 18 As discussed on pages 123 and 151 of the Application and shown on Table C3-15: FEI 19 Customer Service O&M Review, \$10.285 million is the amount of deferred O&M that will be 20 allocated to the Customer Service Variance Deferral Account for 2013.
- 21
- 22



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- 51.3 Can FEI confirm that the PST adjustments made in this table assume a 12.7% capitalization and the application of a 1.7% factor?
- 3 4

5 **Response:**

6 The PST adjustments in Table C3-2 represent a full year impact to O&M of the return to 7 PST/GST from HST. As with all gross O&M, this impact would be subject to a capitalization rate 8 of 14%.

- 9 Please refer to the response to BCPSO IR 1.55.1 for confirmation that the return to PST results
- 10 in a 1.7% increase in capital costs.



1 52.0 **Reference:** Exhibit B-1, page 133, Table C3-5, Departmental O&M

2

Forecasts

3 52.1 The total O&M forecasted for each year is very closely approximated by applying 4 an increase of 3.01% per year. Did an assumed overall increase of 3% in O&M 5 play any part in forecasting FEI's O&M over 2014-18?

6

7 **Response:**

8 No, an assumed overall increase of 3% in O&M did not play any role in forecasting FEI's O&M 9 over 2014-2018.

10 As explained in Section 3.1, page 121, the O&M forecast for 2014-2018 represents a high level 11 forecast of future trends and upcoming challenges for FEI. In developing the 2014-2018 12 forecast, consideration was given to each of the following:

- 13 General labour and benefit inflation
- 14 Specific actuarial forecasts for Pension and OPEB
- Specific forecasts for Insurance and Rate 16 O&M 15 •
- 16 Contract inflation for specific major contracts
- 17 Individual pressures and opportunities identified by the various departments, recognizing an ongoing productivity focus. 18
- 19
- 20 Any resulting comparison to a 3% annual increase is strictly coincidental.
- 21
- 22
- 23
- 24 52.2 Does FEI consider compensation costs to be controllable, whether under cost-of-25 service regulation or under PBR?
- 26
- 27 Response:
- 28 For the most part, FEI considers compensation costs to be controllable, whether under cost-of-29 service regulation or under PBR. Two ways that FEI seeks to control costs are through:
- 30 1. The overall number of positions



- 2. Cost controls on compensation administration
- 2

Each vacancy created through voluntary/involuntary turnover and/or retirement is seen as an
opportunity to look for efficiencies. Vacancies are not automatically filled.

5 FEI also manages compensation costs through a market tested compensation program for M&E 6 employees anchored by a peer group selected to permit the Company to attract and retain 7 talent. Base salary ranges are market tested annually. Incentive pay is linked directly to 8 individual and corporate performance which reinforces results based rewards

- 9 FEI controls compensation costs for unionized employees by negotiating salaries and wages
- that are fair and reasonable, the costs of which are offset by other productivity gains achievedthrough collective bargaining.
- 12 It should be noted there are market-driven externalities that FEI is not always able to control,
- 13 such as increased competition for "hot jobs" or the timing of employee retirements. However,
- 14 FEI seeks to manage these costs as much as possible as discussed above.

FORTIS BC ^{**}		For Application for Approval	Submission Date: August 23, 2013				
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1	53.0 Refe	erence: Exhibit B	1, page 149, Bad Debt Expense and				
2		Exhibit B	1, Section E, Schedules 25, 26, 53, and 54				
3		Exhibit B	-1-1Appendix F6, Appendix G2 Schedules 24	4, 52			
4 5 6	53.1	Please provide de debt expense.	etails with respect to calculating the \$4M in fore	casted 2013 bad			
7	<u>Response:</u>						
8 9 10	8 The estimated \$4 million in forecasted 2013 bad debt includes the mass market bad debt for 9 residential and commercial customers as well as industrial bad debt. The breakdown is as 10 follows:						
11	Mas	s Market Bad Debt	\$3.587 million (based on experience rate of	\$3.587 million (based on experience rate of 0.322%)			
12	2 Industrial Bad Debt \$0.200 million (based on historical avera			es)			
13	Total Bad Debt		\$3.787 million	\$3.787 million			
14 15							
16 17 18 19	53.2	53.2 Is there an amount embedded in rates with respect to bad debt expense? If so, please provide the amount.					
20	<u>Response:</u>						
21 22	Bad Debt expense of approximately \$4 million is included in the Customer Service O&M that was approved for 2013 as part of FEI's 2012-2013 RRA.						
23 24							
25 26 27 28 29	53.3	Please explain schedules are rel bad debt expense	how the bad debt amounts referred to in lated to the \$4M 2013 bad debt expense and e forecasted for 2014-2018.	the referenced to the forecasted			



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1 Response:

- 2 The bad debt expenses for 2013 and the forecast amounts for 2014 to 2018 were included in
- 3 Appendix F6 and are as follows:

2013	2014	2015	2016	2017	2018
\$3,789	\$3,861	\$3,942	\$4,025	\$4,110	\$4,196

4

5 The Bad Debt Provision amount of \$726 thousand for 2012, included in Section E (schedule 25)

6 and Appendix G2 (schedule 24), is a onetime adjustment to reflect the portion of the Provision

7 that is not deductible for income tax purposes.

8 The Reserve for Bad Debt amounts shown on the balance sheet, included in Section E

9 (Schedule 53 and 54) and Appendix G2 (schedule 52), are accumulated reserves for bad debt 10 from overdue balances (they represent the cumulative amounts expensed less amounts

11 collected). These amounts are different from bad debt expenses included in O&M.


1 54.0 **Reference:** Exhibit B-1, page 178, Operations Support – Fleet Services

- 2
- 54.1 Please provide a summary table showing the 2012 FEI fleet, by vehicle type and model year.
- 3 4

5 Response:

6 Below is a summary table of the FEI vehicle fleet, summarized by vehicle type and model year

Vehicle Type	1982- 1995	1996- 2000	2001- 2005	2006- 2010	2011- Present	Total
CAR			1	11		12
LIGHT TRUCKS & VANS	1	24	71	212	80	388
MEDIUM TRUCKS	3	3	12	34	5	57
HEAVY TRUCKS	2		1	2	2	7
Total	6	27	85	259	87	464

7

- 8
- 9
- 10
- 11

12

54.2 Please provide the actual amount spent on fleet services operations support in 2012.

13 Response:

14 All Fleet services operating costs are charged out directly to the business units including the 15 following: Customer & Corporate Services, Operations & Engineering, Facilities, Operations 16 Support, Energy Solutions & External Relations, Finance & Regulatory and Energy Supply & 17 Resource Development. These costs include items such as fuel, maintenance, insurance and 18 expenses associated with managing the fleet. The total O&M costs associated with vehicles in 19 2012 was \$3.848 million.

- 20
- 21
- 22

- 54.3 Please provide the projected amount spent on fleet services operations support in 2013.
- 24 25



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1 Response:

All Fleet services operating costs are charged out directly to the business units including the following: Customer & Corporate Services, Operations & Engineering, Facilities, Operations Support, Energy Solutions & External Relations, Finance & Regulatory and Energy Supply & Resource Development. These costs include items such as fuel, maintenance, insurance and expenses associated with managing the fleet. The total projected O&M costs associated with vehicles in 2013 is \$3.854 million.

- 8
 9
 10
 11 54.4 Has there been any increase to the fleet size since 2012? If so, please specify any change to the fleet made in 2013.
 13
 14 <u>Response:</u>
 15 Since 2012, FEI has not increased the size of the vehicle fleet. Furthermore, this flat trend is supported by control to con
- 16 expected to continue over the period between 2014 2018.



1 55.0 **Reference:** Exhibit B1, page 206, Table C4-2, Base Capital Adjustments

- 2
- Can FEI confirm that the overall effect of the return to PST is an increase of 1.7% 55.1 in capital costs?
- 3 4
- 5 Response:
- 6 FEI confirms that the overall effect of the return to PST is an increase of 1.7% in capital costs.
- 7 Only that portion of capital expenditure that would attract PST was considered in calculating the
- 8 PST impact on capital.
- 9



1 56.0 **Reference:** Exhibit B1, page 207, Table C4-3, Forecast FEI Capital

2

Expenditures

- Although growth capital and its components vary over the 2014-18 PBR period, 3 56.1 4 the CIAC is almost constant over this same period. How was CIAC forecasted 5 over the period?
- 6

7 **Response:**

8 The \$5.8 million CIAC forecast for 2014-2018 is summarized in Exhibit B-1, Section C4.6.5, 9 Table C4-24, page 249. Essentially there are three categories - CIACs from growth capital (new 10 services, conversion services and new mains) and CIACs from third parties for billable capital work (sustainment capital - alterations, re-routing, lowering, etc.) and CIACs related to 11 12 retirements of gas assets (pipe and stations).

13 The portion of CIACs related to growth capital was forecast at \$1.777 million per year and was 14 based on the average actual growth capital CIACs for 2011 and 2012 (\$1.645 million and 15 \$1.860 million respectively). CIACs for growth capital have fluctuated fairly widely in the past 16 and are difficult to predict with any certainty however the past two years were seen to be fairly 17 consistent and therefore used as an average for the forecast. The CIAC forecast related to 18 growth capital was not increased in step with slight increases in growth capital expenditures as 19 much of the increase in regular growth capital expenditures reflected increased service 20 additions activity in the Interior where service line unit costs are typically lower and below the 21 levels requiring a customer contribution.

22 The portion of CIACs related to other capital (third party work) was forecast at \$3.757 million per year and is based on a review of recent past expenditures, excluding very large amounts of 23 24 work such as that caused by the Gateway Transportation Project in the Lower Mainland. In 25 2012 the work that was deemed to be billable to others was approximately \$4.658 million 26 excluding Gateway. In 2011 the amount was approximately \$6.029 million. It is difficult to predict 27 the actual work that will be requested to be done and considering the variability in the requests 28 FEI believes that its forecast is reasonable.

29 The remaining CIAC forecast of approximately \$0.287 million is related to retirements of gas assets (i.e. where municipal work has resulted in retirement of piping or stations). 30

31

32



2

3

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56.2 Is the time profile of projected capital expenditures, i.e., an increase in 2014, flat for 2015 and 2016, then increased again in 2017 and 2018, in any way related to the PBR proposal?

4 5 **Response:**

6 No. The forecasted FEI capital expenditures presented in Table C4-3, page 207 of the 7 Application are for reference purposes only. They represent a high level forecast of future 8 trends and projected capital spending for FEI. The Company's proposed PBR Plan does not 9 rely on the forecast capital expenditures. Rather, it relies on a formula-based approach, as 10 discussed in Section B of the Application.



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1 57.0 **Reference:** Exhibit B1, page 210 Asset Management Strategy

2

57.1 When was the PAS55 standard first published?

3

4 Response:

5 A Publicly Available Specification (PAS) is a sponsored fast-track standard, developed 6 according to guidelines set out by the British Standards Institution (BSI). PAS55 was first 7 published in 2004, sponsored by the United Kingdom Institute of Asset Management.

8 The 2008 update (PAS55:2008) garnered increasing participation: 50 organizations from 15 9 industry sectors in 10 countries.

10 The International Standards Organization (ISO) has built on PAS55 and other international 11 guidelines for development of a new ISO 55000 series of international standards. The 12 development of these standards is ongoing, with 31 countries participating, including Canada. 13 The standards have an expected publication date of fall 2013/spring 2014.

- 14
- 15
- 16
 - 57.2 Is adherence to PAS55 required for any Canadian gas distributors?
- 17 18

19 **Response:**

20 To FEI's knowledge. PAS55 is not currently a regulated requirement for any Canadian gas 21 distributors. However, the standard was reviewed by a committee of the Canadian Gas 22 Association and formed the basis of the "Guiding Document on Asset Management" from the 23 CGA Asset Management Task Force.

- 24
- 25
- 26

30

- 27 57.3 Please indicate what standard FEI adhered to, prior to PAS55 and please briefly 28 indicate the differences between it and PAS55, along with any implications for 29 capital expenditures.
- 31 Response:

32 To clarify, in the Application, FEI stated the asset management strategy would incorporate 33 established industry practices derived from the international PAS55 standard while also 34 leveraging existing systems and processes already in place in both the gas and electric



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divisions. As described in the response to BCPSO IR 1.57.2, the PAS55 standard is not currently a regulated requirement for any Canadian gas distributor; however, the standard is recognized as an important reference source for Canada's natural gas delivery industry and FEI recognizes the value of incorporating some of these practices where they result in customer benefits.

6 While there are no current asset management standards FEI is required to adhere to, asset 7 management practice at the FEU and its predecessor companies has been continually evolving 8 and improving since the initial installation of assets. Appendix C3 – Long Term Sustainment 9 Plan provides the history of FEU's asset management practice and how it has progressed in 10 time.

PAS55 formalizes a management system approach to asset management. A management system is a framework of processes and procedures used to ensure that objectives are met consistently and to required standards. It is commonly described as a "Plan, Do, Check, Act" approach.

15 Continuous improvement is an important element of all management systems. FEI considers 16 the development of a common Asset Management Strategy as a continuous improvement 17 initiative, driven in part by the opportunity to leverage systems and processes that are already in 18 place in both the gas and electric divisions. While the historic asset management approach 19 resulted in a generally reactive focus at the field activity level, FEI believes that management 20 system enhancements can proactively improve focus on customer interests by equipping asset 21 planners and decision-makers with processes and information to deliver consistent, optimized, 22 and aligned asset plans.

A recent example of an asset management enhancement in FEI has been the development of
 the Long Term Sustainment Plan (LTSP) risk framework. The LTSP framework supports Asset
 Management staff in identifying long-term programs and projects, and in prioritizing those
 programs and projects relative to one another.

The level of capital expenditures projected throughout the 2014-2018 forecast period for FEI results from the current state of asset management planning in the organization, including enhancements provided by the LTSP. Overall, sustainment capital expenditures are forecast to increase throughout the PBR period. Notwithstanding this, FEI does not expect that the application of PAS55 principles will significantly increase or decrease total capital or maintenance expenditures during the PBR period; rather, it will help ensure that expenditures are allocated optimally to maximize the customer benefit.



1 58.0 Reference: Exhibit B1, page 219 and Exhibit A-3 BCUC IR 1.155.1,

2 3

Meter Exchanges

- 58.1 Regarding the new SS-06 sampling plan, has FEI knowledge, through communicating with other Canadian gas distribution utilities, that all Canadian gas distribution utilities will be implementing SS-06 effective January 2014?
- 5 6

4

7 **Response:**

8 All gas utilities have had the opportunity to be made aware of the requirements, including the

- 9 mandated implementation date, of the new Measurement Canada sampling plan SS-06. In
- 10 addition, FEI is not aware of any Canadian gas utility which manages its meter fleet using
- 11 compliance sampling that will not be implementing this new standard on the mandated date.

12 This standard has been a topic of discussion at Canadian Gas Association (CGA) meetings with 13 regard to the expected impacts and level of readiness for implementation of each member utility 14 by the required date. In addition, Measurement Canada and the Canadian Gas Association 15 have hosted detailed training seminars to educate staff of the member utility companies 16 regarding the specific requirements of the new sampling plan. Finally, Measurement Canada 17 has presented information at the annual Canadian Gas Association Measurement conference to 18 further educate on the requirements of the new sampling plan to gas utility representatives. As 19 such, it is reasonable to expect all Measurement Canada registered utilities that manage meter 20 fleets through compliance sampling to fully understand and comply with the new compliance 21 sampling standard including the requirement to meet the mandated implementation date.



59.0 Reference: Exhibit B1, page 220 and pages 239-240, Meter Unit Costs

Preamble: The first referenced page states:

- The meter unit cost is influenced by the type, the size, the design of the meter, the installation, fabrication and exchange conditions of the meter set and the timing of the bulk meter purchases and meter upgrade activity. A blended unit cost of all customer types is used for meter exchanges. Meter unit costs typically range from \$75 to \$10 thousand depending on the customer requirements.
- 9 10

1

2

59.1 Please provide the cost range and average cost for residential meters.

11 **Response**:

Meters are not exclusively purchased as residential, commercial or industrial, although some specific meter types tend to be used for a particular customer type. Meter selection is made based on a set of requirements which include: cost of ownership, flow capacity requirements, pressure rating, long term availability and any particular requirements such as positive displacement or inferential measurement based on the specific application. Therefore, there is significant variability in the cost for each meter type.

In relation to residential meters, the unit cost in 2013 would generally range from \$60 to \$156and the average cost based on the planned device purchases in 2013 is \$79.

In relation to commercial meters, the unit cost in 2013 would generally range from \$387 to \$2,200 and the average cost based on the planned device purchases in 2013 is \$509.

In relation to industrial meters, the unit cost in 2013 would generally range from \$2,400 to \$56,000 and the average cost based on the planned device purchases in 2013 is \$3,600.

24
25
26
27 59.2 Please provide the cost range and average cost for commercial meters.
28
29 <u>Response:</u>
30 Please refer to the response to BCPSO IR 1.59.1.
31
32



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3

6 7 59.3 Please provide the cost range and average cost for industrial meters.

4 <u>Response:</u>

5	Please refer to the response to BCPSO IR 1.59.1.
---	--

8
9
59.4 Please provide a breakdown, for each year of the PBR plan, of the number of meters forecasted (new or replaced) among (i) residential, (ii) commercial, and (iii) industrial.
12

13 Response:

14 The table below provides a breakdown for the meter replacement forecast during the planned

15 PBR period between 2014 and 2018 to ensure compliance with the new Measurement Canada

16 mandated sampling plan SS-06. The totals are consistent with those provided in Table C4-9.

	2014	2015	2016	2017	2018
Residential	67345	70845	75345	75345	75345
Industrial	447	447	447	447	447
Commercial	4023	4023	4023	4023	4023
Total	71815	75315	79815	79815	79815

17

18 Furthermore, an additional table is presented below which provides the breakdown of 19 forecasted new meter installs during the planned PBR period between 2014 and 2018.

	New Additions (reference Table C4-20 for totals)				
	2014	2015	2016	2017	2018
Residential	4,594	4,955	5,085	4,972	4,806
Industrial	0	0	0	0	0
Commercial	388	373	358	372	367
Total	4982	5328	5443	5344	5173

20

21



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3

59.5 Can FEI confirm that meter costs are not allocated to any rate class according to the blended costs of meters for that rate class?

4 Response:

5 FEI confirms for this Application the meter costs are not allocated to any rate class according to

6 the blended costs of meters for that rate class. For budgeting and planning an average cost for 7

the various types of meters expected to be added is used (see Table C4-20, Page 240 of the

8 Application).



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60.0 **Reference:** Exhibit B-1, page 221, Pipeline Class Location Upgrades

2 Preamble: The referenced page states:

- 3 Clause 4.3.2 of CSA Standard Z662, Oil and gas pipeline systems, 4 defines limitations on operating stress (safety factor) based on the 5 number of dwellings within 200 m of the pipeline. An increase in the 6 density of dwellings adjacent to a pipeline may result in the class location 7 being changed leading to a requirement to reduce the operating stress of 8 the pipeline and thus increase the factor of safety. CSA Z662 also 9 requires annual assessments of the class location to recognise and 10 accommodate development near the pipeline. In instances where the 11 class location is changed as a result of development FEI must change the 12 operating parameters of the pipeline. This may require reducing the 13 operating pressure which leads to a loss of capacity and may limit the 14 ability to meet customer demand. In instances where reducing operating 15 pressure is unacceptable, the impacted section of pipeline must be replaced to meet the required safety factor while maintaining customer 16 17 supply.
- 18 60.1
 - When was Standard Z662 issued?

- 19
- 20 Response:
- 21 The current edition was released in 2011.
- 22
- 23
- 24

26

- 25 60.2 When did clause 4.3.2 come into effect?
- 27 Response:

The requirements contained in Clause 4.3.2 of the current version of CSA Standard Z662 have 28 29 been in place in essentially the same form since 1973. Similar requirements existed before then: 30 however, they were stated differently.

31

32



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FortisBC Energy Inc. (FEI or the Company) Application for Approval of a Multi-Year Performance Based Ratemaking Plan for 2014 through 2018 (the Application)	Submission Date: August 23, 2013
Response to British Columbia Public Interest Advocacy Centre on behalf of the British Columbia Pensioners' and Seniors' Organization <i>et al</i> (BCPSO) Information Request (IR) No. 1	Page 120

60.3 With respect to the seven pipelines referred to, when did FEI first realize that to be compliant with the clause, upgrades would be required?

4 Response:

5 FEI first became aware of the potential sites in 2011 following an assessment of class location 6 which resulted in further evaluation. Upgrade to these pipelines could impact either system 7 operations or result in significant public disruption during construction; therefore, it was 8 necessary to validate the pipe specifications and condition, the extent and type of development, 9 and the long term operating conditions to confirm that the upgrades were necessary. The 10 extent of the upgrades was determined during the first quarter of 2012.

11 12 13 14 60.4 Over what number of years are the segments to be replaced depreciated? 15

16 Response:

17 The segments to be replaced are going to be depreciated over 69.44 years based on the

18 approved depreciation rate of 1.44% for transmission pipeline (465).



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1 61.0 Reference: Exhibit B-1, page 34, FEI Pre-2004 PBR Experience

61.1 Beginning with 1994 and continuing for each successive year through 2003,
please provide a table that shows the annual increase in delivery revenue along
with the annual inflationary increase in the BC CPI.

6 **Response:**

5

7 The following table provides the % change in the Delivery Charge for Lower Mainland
8 Residential customers and the % change in the BC CPI from 1994 through 2003.

Lower Mainland Rate Schedule 1 -									
	Residential Delivery Charge(s)						%	BC CPI %	
	Jan. 1						Increase	Increase	
	Non-H	leating	Heating		Post				
	April 1 - Oct.		Nov. 1 -		Seasonal				
	31		March 31		Rates				
1994	\$	1.000	\$	2.000				1.9%	
1995	\$	1.203	\$	2.406			20.3%	2.3%	
1996	\$	1.268	\$	2.535			5.4%	0.9%	
1997	\$	1.330	\$	2.669			5.3%	0.7%	
1998					\$	2.247	1.1%	0.3%	
1999					\$	2.253	0.3%	1.1%	
2000					\$	2.327	3.3%	1.9%	
2001					\$	2.632	13.1%	1.7%	
2002					\$	2.502	-4.9%	2.3%	
2003					\$	2.579	3.1%	2.1%	

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1 62.0 Reference: Exhibit B-1, page 35, Productivity Factor in Previous PBR

Preamble: The referenced page states:

The parties involved in the NSP agreed that linking the productivity factor to BC-CPI would be beneficial for both ratepayers and FEI since the productivity opportunities would increase as inflation increased, and conversely FEI would have more limited opportunities for productivity improvements if the rate of inflation decreased. The productivity factor agreed to was 50 percent of CPI for 2004 and 2005, and 66 percent of CPI from 2006 to 2009.

- 10 62.1 Please discuss the advantages and disadvantages for ratepayers and for the 11 utility of using such a % of inflation as a productivity factor as opposed to using a 12 fixed productivity factor. Do the advantages and disadvantages depend on 13 forecasts or expectations of inflation during the PBR period?
- 14

15 **Response:**

16 The advantages/disadvantages of a fixed productivity factor versus one that is expressed as a 17 % of inflation are dependent on expectations for inflation in the PBR period and also on the

18 expected volatility of inflation. In periods of stable inflation, it is possible that a fixed productivity

19 factor and a percentage of inflation-based ("floating") X-factor could be structured to produce

20 fairly similar results for the I-X formula.

If inflation rates are more volatile, and in particular moving upward, the floating X-factor may begin to produce X-factor results that are too large, making the productivity challenge in the I-X formula unreasonably difficult to achieve. A fixed X-factor may be more acceptable in these conditions.

On the other hand, if inflation rates are moving downward towards zero and perhaps even becoming negative a fixed X-factor may make the productivity challenge too onerous if the utility's own cost inputs are not facing the same very low or negative inflationary pressures. In this circumstance a floating X-factor may provide a reasonable hedge for both the utility and customers.



1 63.0 **Reference:** Exhibit B-1-1, Appendices F4 and F5, Deferral Accounts

2 63.1 Are the only criteria used by FEI, in determining whether a deferral account 3 should be classed as a rate base or a non-rate base deferral account, as 4 expressed in the Overview to Appendix F5?

6 Response:

7 Tthe Overview to Appendix F-5 provides a fairly comprehensive summary of the criteria FEI 8 uses in determining whether a deferral account should be requested as a rate base or non-rate 9 base account. In addition, there have been situations (such as the EEC Incentives non-rate 10 base deferral account) where FEI has created a non-rate base deferral account due to the 11 difficulty in forecasting the balances to be included in rate base, and where the balances are 12 considered material.

13

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- 15
- 16 63.2 Can FEI confirm that the interest applied to a rate base deferral account is equal to the utility's WACC and provide the current rate?
- 17 18

19 Response:

20 Yes. For rate base deferrals the return is implicit due to its inclusion in the utility's rate base.

21 The original approved return on rate base for 2013, from Order G-44-12 approving the 22 2012/2013 Revenue Requirement Application, was 7.82 percent. On an after-tax basis, it is 23 equivalent to the utility's after-tax WACC, or AFUDC rate, of 6.82 percent.

24 The revised approved return on rate base for 2013, from changes to FEI's equity structure as a 25 result of Order G-75-13 approving Phase 1 of the Generic Cost of Capital Proceeding, is 7.44 26 percent. On an after-tax basis, it is equivalent to the utility's after-tax WACC, or AFUDC rate, of 27 6.43 percent.

- 29
- 30
- 31 63.3 Please provide the current AFUDC rate that balances in non-rate base deferral 32 accounts attract and explain how this rate is determined.
- 33
- 34 **Response:**



1 FEI has provided a numerical example below to show how the currently approved AFUDC

- 2 (WACC) rate of 6.43 percent was determined.
- 3 Equity 38.50% Equity Thickness x 8.75% ROE = 3.37%
- 4 Long-term Debt 56.97% Long-term Debt Thickness x 6.87% Long-term Debt Rate x (1 25%
 5 tax rate) = 2.94%
- 6 Short-term Debt 4.53% Short-term Debt Thickness x 3.50% Short-term Debt rate x (1 25%
 7 tax rate) = 0.12%
- 8 AFUDC = 3.37% Equity + 2.94% Long-term Debt + 0.12% Short-term Debt = **6.43%**
- 9

10

- 11 12
- 63.4 Has FEI ever applied for a rate based deferral account to record expenses for a year in which rates have already been set? If so, please provide details.
- 13 14

15 **Response:**

16 Typically, FEI would not apply for a rate base deferral account to record expenses for a year in 17 which rates have already been set. There are a number of situations, particularly for costs 18 related to regulatory applications and proceedings, where costs are incurred part way through a 19 year for which rates are already set and the rate base deferral is not added into rate base until 20 the beginning of the following year. An example of this is the 2014-2018 PBR Application 21 deferral, where FEI will incur the majority of the costs in 2013 but the account will not earn a 22 return until it enters rate base in 2014.

- 23
- 24
- 25
- 63.5 Has FEI ever applied to the BCUC for a rate base deferral account and had the
 BCUC either (i) decline to approve any deferral account or (ii) decline to approve
 a rate base deferral account but approve a non-rate base deferral account? If
 so, please provide details.
- 30

31 Response:

FEI has reviewed the Commission's decisions with respect to its deferral account requests since the beginning of 2010 (excluding projects that were subsequently transferred to FAES) and



1 found the following orders that either declined to approve a deferral account or declined to 2 approve the requested type of or return on a deferral account:

FEU Application for Approval of 2012 and 2013 Natural Gas Rates Order G-44-12 dated April
12, 2012:

- 5 "The discontinuance, modification, and creation of deferral accounts, and the 6 amortization and disposition of balances of deferral accounts, for FEI, FEVI, FEW and 7 Fort Nelson is approved subject to the following:
- a. The creation of an EEC non-rate base deferral account, attracting Allowance for Funds Used During Construction (AFUDC), to capture the additional EEC costs as incurred on an actual spend basis to a maximum of the total approved EEC expenditures less \$15 million in 2012 and 2013 is approved without any determination on the amortization rate and recovery of this account at this time.
- b. The request to expand the compressed natural gas (CNG) and liquefied natural gas
 (LNG) Service Recoveries Deferral Account for the 2012 and 2013 forecast period is
 denied.
- c. The creation of the natural gas vehicle (NGV) Incentives deferral account is
 approved on the basis that this account attracts no return."
- 18

FEI Application for Approval of Kingsvale-Oliver Reinforcement Project Stage 2a Project Development Costs and Accounting Treatment Order G-101-12 dated July 23, 2012. FEI had requested that costs be added to the existing rate base SCP Mitigation Revenues Deferral Account. Instead, the Commission ordered:

- 23 "FEI is directed to establish a new non-rate base deferral account for recording of Stage
 24 2a feasibility expenses with treatment of interest rate and deferral period to be
 25 determined at the next Revenue Requirement."
- 26

FEI Application for Approval of a Temporary Service Agreement for Liquefied Natural Gas (LNG) Service, for Approval of a Service Agreement for LNG Delivery, for Approval of a Daily Charge for the Use of an LNG Tanker and for Approval of a Daily Charge for the Use of a Mobile LNG Refuelling Station Order G-156-12 dated October 22, 2012:

31 "The Panel approves a deferral account for the costs of the Amended Application;
32 however, the use of a non rate base deferral account attracting AFUDC is denied. FEI
33 may apply the weighted average cost of debt to the account. The Panel directs that FEI
34 may not recover any of the costs of the Amended Application from its non-bypass
35 customers. The Panel directs FEI to propose a method for recovery of this deferral



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- account, calculate the effect of this treatment in the rate to Vedder, and file the amended
 rate within thirty days of the date of this Order."
- FEI Application for Approval to Amend Rate Schedule 16 on a Permanent Basis Order G-88-13
 dated June 4, 2013:
- 6 "The request to include the Application Costs in the NGV Application Deferral Account is 7 denied. The Application Costs are to be placed in a new deferral account, attracting 8 interest only, and amortized into rates over one year, beginning with the next revenue 9 requirement period.
- 10 The request to use the CNG and LNG Recoveries Deferral Account for the purpose of 11 capturing the incremental revenues received and the incremental costs for 2012 and 12 2013 for Rate Schedule 16 is denied. FEI is directed to establish a new deferral account 13 for this purpose."
- 14
- 15
- 16

- 17 63.6 Is it FEI's understanding that the BCUC's criteria, in determining whether to 18 approve a requested deferral account and, if so, whether the account should be a 19 rate base or non-rate base account, are the same as FEI's criteria?
- 21 **Response:**

FEI uses consistent criteria to determine the appropriate treatment and recovery of deferral accounts. FEI has historically received decisions from the BCUC that would indicate that FEI and the BCUC were aligned in their understanding of the criteria to be used to evaluate deferral account requests. However, decisions received since the beginning of 2012 by FEI (listed in response to BCPSO IR 1.63.5), and also its affiliated companies FortisBC Inc. and FortisBC Alternative Energy Services Inc., would indicate that the BCUC does not always apply the same criteria as FEI to determine the appropriate treatment and recovery of deferral accounts.

Attachment 4.1

REFER TO LIVE SPREADSHEET MODEL

Provided in electronic format only

(accessible by opening the Attachments Tab in Adobe)

Attachment 4.3



SIXTH FLOOR, 900 HOWE STREET, BOX 250 VANCOUVER, BC CANADA V6Z 2N3 TELEPHONE: (604) 660-4700 BC TOLL FREE: 1-800-663-1385 FACSIMILE: (604) 660-1102

ERICA HAMILTON COMMISSION SECRETARY Commission.Secretary@bcuc.com web site: http://www.bcuc.com

VIA EMAIL

April 18, 2013

Ms. Diane Roy Director, Regulatory Affairs – Gas FortisBC Energy Inc. 16705 Fraser Highway Surrey, BC V4N 0E8 (gas.regulatory.affairs@fortisbc.com)

Dear Ms. Roy and Mr. Swanson:

Mr. Dennis Swanson Director, Regulatory Affairs FortisBC Inc. Suite 100 – 1975 Springfield Road Kelowna, BC V1Y 7V7 (electricity.regulatory.affairs@fortisbc.com)

Re: FortisBC Energy Inc. and FortisBC Inc. 2014 Revenue Requirements Application Productivity Improvements in a Performance Based Rate Setting Environment

The British Columbia Utilities Commission (Commission) writes to provide FortisBC Energy Utilities and FortisBC Inc. (together the Companies), with further direction regarding the inclusion of an evaluation of Performance Based Regulation (PBR) methodologies, utilized in Canada and a proposal for a PBR methodology in the Companies' next Revenue Requirements Applications (RRA).

Commission Decisions on the FortisBC Energy Utilities 2012-2013 Revenue Requirements and Rates Application (FEU 2012-2013 RRA) and the FortisBC Inc. 2012-2013 Revenue Requirements and Review of 2012 Integrated System Plan (FortisBC 2012-2013 RRA and ISP) examined productivity improvements under a PBR setting.

The FEU 2012-2013 RRA Decision found there was sufficient evidence to suggest that introducing a PBR environment has the potential to act as an incentive to create productivity improvements but also recognized that there are limitations to the PBR methodology. The FortisBC 2012-2013 RRA and ISP Decision had the view that there is an ongoing need for utilities to manage their business in a manner that actively seeks out and creates efficiencies resulting in a productivity improvement culture.

The Commission requires FEU and FortisBC to describe its productivity improvement culture by an examination of PBR methodologies in its next Revenue Requirements Applications. This examination is to evaluate the most recent PBR methodologies employed by FEU and FortisBC and the various PBR methodologies approved by other jurisdictions in Canada. FEU and FortisBC are to propose a PBR methodology and explain how it addresses the limitations in the various PBR methodologies, and will achieve a productivity improvement culture.

Yours truly,

Erica Hamilton

PWN/yl

Attachment 17.1

REFER TO LIVE SPREADSHEET MODELS

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Attachment 19.2

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